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Shaw Environmental, Inc. (Shaw)

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Shaw E & I
9201 East Dry Creek Road
Centennial, CO 80112

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The Revised Final Remedial Action Completion Report provides all detailed information necessary to fulfill the construction completion requirements. The report is used to demonstrate that the physical construction activities designated in the remedial action for OU8 (Shattuck Chemical Superfund Site) located in Denver, Colorado are complete.

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REVISED FINAL REMEDIAL ACTION COMPLETION REPORT
SHATTUCK CHEMICAL SUPERFUND SITE
DENVER, COLORADO

TOTAL ENVIRONMENTAL RESTORATION CONTRACT (TERC)
CONTRACT NO. DACA 45-96-D-0007
TASK ORDER NO. 0031

Submitted to:

USACE
Omaha District

USEPA
Region 8

Colorado Department
of Public Health
and Environment

Submitted by:

Shaw Environmental, Inc.

Shaw Environmental, Inc.
9201 East Dry Creek Road
Centennial, Colorado 80112

September 2006

Revision 2

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Shaw Environmental, Inc.
9201 East Dry Creek Road
Centennial, Colorado 80112

September 2006

Revision 2

Written by: _____ Date: 9/25/06
Gary D. Parks, P.G.
Project Manager

Reviewed by: _____ Date: 09/25/06
Douglas E. Vandenbark, P.E.
Project Construction Engineer

Approved by: _____ Date: 9/25/06
Patrick McGinnis, P.E.
Program Manager

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List of Acronyms

AHU	air handling units
ALARA	as low as reasonably achievable
BNSF	Burlington Northern Santa Fe
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CCOD	City and County of Denver
CDPHE	Colorado Department of Public Health and Environment
CO	Carbon monoxide
CQC	Construction Quality Control
CQCM	Construction Quality Control Manager
CQCP	Contractor Quality Control Plan
CRSADQAP	Chemical and Radiological Sampling, Analysis, and Data Quality Assurance Plan
CSAHP	Community Safety and Health Plan
cy	cubic yard(s)
DCGL	derived concentration guideline level
DOE	United States Department of Energy
DQO	Data Quality Objectives
DPSLSFR	Decommissioning Plan to Support Loadout Structure Free Release
DPSMSFR	Decommissioning Plan to Support Mining Structure Free Release
FSSP	Final Status Survey Plan
ft	feet
ft-bgs	feet below ground surface
FWPSRAWP	Final West Perimeter Soil Remedial Action Work Plan
FWV	Field Work Variance
H&S	Health and Safety
IC	Institutional controls
IFSP	Import Fill Sampling Plan
IIP	Incidental Investigation Plan
IT	IT Corporation
IV	Independent Verification
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
mg/kg	milligram(s) per kilogram
MHF	MHF Logistical Solutions, Inc.
MHTDP	Material Handling, Transportation, and Disposal Plan
NOx	Oxides of Nitrogen
NRC	Nuclear Regulatory Commission
O&M	Operations and Maintenance
OU	Operable Unit
Ppm	part per million
pCi/g	picocurie(s) per gram
PPE	personal protection equipment
PV	pre-verification
QA	quality assurance

List of Acronyms

QC	quality control
Ra	radium
RAMP	Remedial Action Management Plan
RAO	Remedial Action Objective
RFEPSBSRAWP	Revised Final East Perimeter Soil and Bannock Street Remedial Action Work Plan
RI	Remedial Investigation
ROC	Radionuclides of Concern
ROD	Record of Decision
ROW	right-of-way
RSO	Radiation Safety Officer
SHASP	Site Health and Safety Plan
Shattuck	Shattuck Chemical Superfund
Shaw E & I	Shaw Environmental & Infrastructure, Inc.
sf	square feet
SSO	Site Safety Officer
SU	survey unit
T&D	Transportation and Disposal
TERC	Total Environmental Restoration Contract
Th	thorium
TMSCSESRO	Technical Memorandum Shattuck Chemical Site Evaluation of Site Restoration Options
U-nat	natural uranium
USACE	United States Army Corps of Engineers
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
XRF	x-ray fluorescence

1.0 Introduction

1.1 Shattuck Site Location

The Shattuck Chemical Superfund Site (Shattuck or the Site) is Operable Unit (OU) VIII of the larger Denver Radium Superfund Sites, consisting of 65 properties abandoned after the city's radium industry collapsed in the 1920's. The Site is located approximately 6 miles southwest of downtown Denver, Colorado (Figure 1). The 5.9-acre Shattuck site at 1805 South Bannock Street is in an area zoned for mixed residential, commercial, and light industrial use. Residential areas are located one block south, one block east, and approximately ½ mile to the west. The site is directly east of an active Burlington Northern Santa Fe (BNSF) rail spur and mass transit rail line.

The topography of the surrounding area is relatively flat. The area generally slopes from the north and west. The Site is located within the drainage basin of the South Platte River, which is located approximately 3000 feet (ft) to the west. A shallow unconfined aquifer exists below the site. The shallow aquifer is perched on bedrock and merges with the alluvial aquifer beneath the floodplain of the South Platte River. Groundwater in the area is not used as a drinking water source.

1.2 Operational History

The Shattuck site was the location of the S.W. Shattuck Chemical Company, Inc. Shattuck processed a variety of radioactive materials from 1917 to 1984 (Figure 2). Mineral ores processed included tungsten and carnotite ores, radium slimes, molybdenum ores, and depleted uranium. A summary of the processing history is provided below.

- 1920's - Molybdenum ore processing
- 1930's - Radium slime processing
- 1940's - Uranium and molybdenum processing
- 1950's - Uranium processing
- 1960's - Molybdenum processing
- 1970's and 1980's – Uranium, molybdenum, and rhenium processing

Many of the processed ore residues remained on the site and became intermixed with site soils. Additionally a detention pond to hold molybdenum slime wastes was located at the northern end of the property. These activities resulted in pollution of the site with radioactive elements, including Ra-226, Th-230, various Uranium isotopes, and non-radioactive metals such as lead, arsenic, and selenium.

1.3 Regulatory and Enforcement History

A 1979 review of old United States Bureau of Mines reports led the United States Environmental Protection Agency (USEPA) to investigate former radioactive ore processing facilities (the Denver Radium Sites) located throughout the Denver area including the Shattuck site. In October 1981, the Denver Radium Sites were placed on the Superfund Interim Priorities List. In September 1983, the Sites were place on the National Priorities List.

In 1988, the USEPA conducted a remedial investigation (RI) at Shattuck. Further study of the site was completed in 1991. Those studies found that radiological contamination was present in site soils over an area of approximately 230,000 square feet (sf). The contamination was found to extend from the ground surface to depths ranging to over 14.5 ft-below ground surface (ft-bgs). The estimated volume of contaminated soil at the site was 38,500 cubic yards (cy).

Based on those investigations a Superfund *Record of Decision* (ROD) *Denver Radium Site, Operable Unit VIII, Denver, Colorado,* USEPA and Colorado Department of Health (CDPHE), 1992) was signed and issued in January 1992. The original ROD remedy stipulated that all buildings and facilities be demolished and disposed of offsite. Additionally, contaminated soil material was to be stabilized and solidified on-site. Institutional controls (IC), maintenance, and monitoring were also used to supplement the remedy. The ROD remedy was largely completed in September 1998. The remedy selected created an approximately 5-acre roller compacted cement/soil monolith on the 5.9-acre site. Groundwater contamination present beneath the site was to be remediated by natural attenuation, or, by removal of the onsite source.

As part of the statutory five-year-review process, an evaluation of the original ROD remedy was conducted. Results of that evaluation were presented in November 1999. The report identified concerns related to the long-term effectiveness of the monolith and the reliability of IC's imposed in the original ROD. Additionally, the State, City and County of Denver, stakeholders, and the local community requested other alternatives to the onsite remedy be considered. The combination of technical concerns, requests to reconsider the remedy, and the State's withdrawal of support resulted in the USEPA amending the original ROD.

A *Record of Decision Amendment, Denver Radium Site, Operable Unit VIII, Denver, Colorado* (USEPA, 2000a) was issued on June 16, 2000. The Amended ROD stipulated that the monolith be removed from the site along with any additionally identified contaminants in excess of cleanup levels specified in the Amended ROD.

1.4 Prior Remedial Actions

A bioremediation system was installed on the western edge of the site to address subsurface hydrocarbon contamination. The system was not addressed by the ROD and Amended ROD. Use of the bioremediation system was discontinued prior to initiation of the Amended ROD and removed during implementation of the Amended ROD.

2.0 Operable Unit Background

2.1 Record of Decision Requirements

Site soils were identified as the principal-threat wastes in the original ROD because these materials were considered to be mobile source materials that were generally not contained in a reliable manner. These principal-threat wastes received treatment by solidification and stabilization process implemented under the ROD and thus satisfied the statutory preference for treatment of the principal-threat wastes. The original remedy imposed a minimum 300-year effectiveness criterion, in effect making the Shattuck site a perpetual waste management facility located in a commercial, light industrial and residential area. Consequently, no future land use was anticipated for the site other than as a permanent repository for the stabilized materials.

Performance goals established in the original ROD for both radiological constituents and non-radiological metals included:

- Ra^{226} – 5 picocuries per gram (pCi/g) above background in the top 15 centimeters (cm) of soil,
- Ra^{226} – 15 pCi/g above background in any layer below the top 15 cm,
- Th^{230} - 42 pCi/g above background in any layer,
- Uranium – 75 pCi/g above background in any layer,
- Arsenic – 160 milligram per kilogram (mg/kg),
- Selenium – 490 mg/kg, and;
- Lead – 540 mg/kg,

The above criteria were based upon Nuclear Regulatory Commission (NCR) and Department of Energy (DOE) standards. Background concentrations were defined by the USEPA as 1.0 pCi/g per isotope of concern for Ra^{226}, Th^{230}, and Uranium.

Execution of the initial ROD resulted in the actual excavation of 43,214 cy of contaminated site soils. Those soils were mixed with cement and fly-ash and consolidated into a solidified cement/soil monolith with an actual volume of approximately 83,610 cy.

Institutional controls stipulated in the original ROD included site fencing, restrictions against excavating into the cover and stabilized materials, restrictions prohibiting the construction of

enclosed structures on the site, restrictions against using groundwater beneath the site, and restrictions to prevent agricultural use of the site.

Groundwater contamination present beneath the site was to be remediated by natural attenuation, or, by removal of the onsite source. Groundwater monitoring was also specified as the means by which the effectiveness of monolith stabilization was in immobilizing the site contaminants. The original ROD remedy was designed to minimize active maintenance requirements. Post-closure care was limited to maintenance of the impermeable cap. Provisions for surveillance and repair were established. Statutory 5-year reviews were also required by the ROD.

2.2 Amended Record of Decision

As a result of the statutory 5-year review conducted in 1999 concerns were raised as to the long-term effectiveness of the monolith and the reliability of the IC's. The combination of technical concerns, requests to reconsider the remedy, and the State's withdrawal of support resulted in the USEPA amending the original ROD and the *Record of Decision Amendment, Denver Radium Site, Operable Unit VIII, Denver, Colorado* (USEPA, 2000a) was issued on June 16, 2000. The Amended ROD stipulated that the monolith be removed from the site along with any additionally identified contaminants in excess of cleanup levels specified in the Amended ROD.

Cleanup goals, or Remedial Action Objectives (RAO's), specified in the Amended ROD included:

- Eliminate the potential for direct contact with soil or ingestion of soil with the potential to cause excess cancer risks of greater than 10^{-6} from gamma radiation,
- Eliminate the potential for inhalation of soil with the potential to cause excess cancer risks of greater than 10^{-6} from Th^{230} in wind-blown dust and radon progeny,
- Eliminate the potential for exposure to soil having Ra^{226} activity levels greater than 5 pCi/g occurring in any six-inch layer of the monolith from its top surface to its bottom surface, including any original soils not incorporated into the monolith which are above the groundwater table,
- Eliminate the potential for exposure to soil having Th^{230} activity levels greater than 5 pCi/g occurring in any six-inch layer of the monolith from its top surface to its bottom surface, including any original soils not incorporated into the monolith which are above the groundwater table,
- Eliminate the potential for direct contact with soil or ingestion of soil with natural uranium (U-nat) activity levels greater than 75 pCi/g,

- Eliminate the potential for inhalation of radon progeny at an activity greater than 0.02 working levels.

Each of the activity levels specified above for Ra^{226}, Th^{230}, or U-nat is above site background level. The background level of each of the above radiological constituents was arbitrarily assigned a value of 1.0 pCi/g. As a result the derived concentration guideline level (DCGL) or cleanup criteria for the site are as follows:

- U-nat – 76 pCi/g
- Th^{230} – 6 pCi/g
- Ra^{226} – 6 pCi/g

The above RAO's were derived from the individual performance standards discussed in the feasibility study for the original ROD. The RAO's for radium and thorium were updated to reflect USEPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) guidance issued after the original ROD had been implemented. The amended ROD RAO's not only reduce or control exposure but also eliminate the potential future exposure to treated radioactive soils contained in the monolith. Elimination of the risk posed by those soils would permit the unrestricted use of the Site which conforms to reasonable anticipated future land use. Removal of the monolith and other affected soils from the site would eliminate the need to perform long-term operation and maintenance (O&M) activities on the monolith.

On April 26, 2006 USEPA (USEPA, 2006) informed USACE and Shaw that an additional remedial action criterion for molybdenum in soil had been established for the Shattuck site by the regulatory agencies. The new screening criterion, 390 milligrams per kilogram (mg/kg) (or parts per million (ppm)), was to be applied to soil lying beneath the footprint of a former "molybdenum pond" that was used to store wastewater and sludge from former ore processing operations. The molybdenum containing soils beneath the pond were believed to be acting as a source for molybdenum in groundwater that has been reported downgradient of the Shattuck site. The former molybdenum pond covered an area approximately 1-acre in size at the north end of the Shattuck property.

3.0 Construction Activities

A step-by-step summary description of the activities undertaken to construct and implement the Amended ROD remedial action at the Shattuck site is provided in this chapter.

3.1 Pre-Mobilization

Before mobilization of demolition equipment and project structures, certain preliminary operations were conducted to ensure that structure erection, monolith demolition, and all other site activities proceeded smoothly. These preliminary operations included:

- Preparation of Project Work Plans. The following plans were used to direct, control, and monitor the work performed under the Amended ROD:

  - ❖ Remedial Action Management Plan (RAMP)(2002),
  - ❖ Community Safety & Health Plan (CSHP) (2002),
  - ❖ Material Handling, Transportation & Disposal Plan (MHTDP) (2002),
  - ❖ Chemical & Radioactive Sampling, Analysis & Data Quality Assurance Plan (CRSADQAP) (2002),
  - ❖ Site Health & Safety Plan (SHSP) (2002),
  - ❖ Construction Quality Control Plan (CQCP) (2002),
  - ❖ Final Status Survey Plan (FFSP) (2002).
  - ❖ Incidental Investigation Plan (IIP) (2001)
  - ❖ Import Fill Sampling Plan (IFSP)(Shaw 2004)
  - ❖ Revised Final East Perimeter Soil and Bannock Street Remedial Action Work Plan (RFEPSBSRAWP)(2005)
  - ❖ Final West Perimeter Soil Remedial Action Work Plan (FWPSRAWP)
  - ❖ Decommissioning Plan to Support Mining Structure Free Release (DPSMSFR), (2006)
  - ❖ Decommissioning Plan to Support Loadout Structure Fee Release (DPSLSFR) (2006)
  - ❖ Technical Memorandum Shattuck Chemical Site Evaluation of Site Restoration Options (TMSCSESRO) (2005)

- Acquiring an approved on-site laboratory,

- Performing a topographic survey to determine initial site conditions for later use in material volume calculations,

- Performing baseline air quality monitoring,

- Installing erosion and sedimentation controls, and,

- Obtaining permits and providing notifications as applicable.

3.2 Mobilization

Mobilization includes procurement and installation of necessary facilities, equipment, and materials to perform the remedial action. The following task items were performed as part of the site mobilization:

- Mobilize earth-moving, construction equipment, and supplies to the site;
- Construct site roads;
- Construct a railroad spur to support transportation of the Shattuck material to offsite facilities,
- Assemble the laboratory/office complex in the support area;
- Complete utility (water and electrical) connections;
- Install telecommunications,
- Construct project buildings including the Mining, Conveyor and Loadout Structures including ancillary equipment such as air handling units and ingress egress facilities, and;
- Construct other ancillary site facilities, such as decontamination pad, containment pad, air monitoring system, weather station, guard station, etc.

3.3 Remediation Operations

Remedial operation and the sequence of actions taken during routine demolition and removal of materials at the site include the following:

1. Structure Erection,
2. Cover Material Removal,
3. Monolith Demolition and Removal,
4. Underlying Soil Excavation, including
   - Investigation, and
   - Targeted removal,
5. Pre-Verification Walkover Survey,
6. Pre-Verification Sampling and Analysis,
7. Mining Structure Relocation,
8. Final Status Survey,
9. Independent Verification,
10. Topographic Survey,
11. Bannock Street Remediation,

12. Perimeter Soil Excavation
13. Molybdenum Pond Soils Remediation,
14. Backfill Operations,
15. Site Restoration, and;
16. Operation and Maintenance.

Each of these activities is describe in detail in the following sections.

3.3.1 Structure Erection

To control dust and minimize the potential for community exposure to airborne contaminants generated during demolition of the monolith, three structures were erected to cover mining, materials handling (i.e. conveyor), and loadout operations.

3.3.1.1 Mining Structure

The cover materials, monolith material, and underlying soils were mined within the Mining Structure. This building is a movable/liftable structure that was initially installed (i.e. setup #1) along the south end of the site (i.e. the widest part of the site) and extended between the east and west property lines. The structure consisted of five wheel-mounted, metal framed modules connected by four tension-fabric links.

As work was completed under each "building setup" the structure was towed to the next "setup" using a winch and cable system. The wheel mountings, consisting of rail line and wheels on the front (north-side) of the modules, and, extendable, hydraulically adjustable, rubber tired wheels on the back (south-side) of the modules allowed for movement of the Mining Structure.

Because of the trapezoidal shape of the Shattuck property the width of the structure was required to be reduced during each building move. This was accomplished by shortening the tensioned fabric links between each of the five metal modules. Initially the overall width of the Mining Structure was approximately 368 ft. Nine building moves were required to complete mining of the monolith. At its final (i.e. tenth) building setup the width of the Mining Structure was approximately 230 ft.

An air-filtering system was employed in the Mining Structures to minimize dust concentrations and remove equipment exhaust from the building. The system was capable of providing up to 4 complete air exchanges within the building each hour, or, approximately 6,000,000 cubic feet of air per hour. The filtering system was capable of removing 99.99% of particulates greater than 5 microns prior to exhausting to the outside atmosphere.

3.3.1.2 Conveyor System

An enclosed Conveyor System was used to deliver materials from the Mining Structure to the Loadout Structure. The conveyor structure is a fixed (e.g., stationary) structure located along the western side of the monolith, connecting the Mining and Loadout Structures. The conveyor measured approximately 8-ft wide by 700-ft long at its greatest extent. Portions of the Conveyor Structure were incrementally removed to shorten the structure as the monolith mining operation progresses from south to north toward the Loadout Structure. A bar screen and vibrating grizzly feeder was installed at the head of the conveyor system to remove material greater than 18 inches for further demolition and evenly distribute material onto the conveyor belt to minimize conveyor overloading.

3.3.1.3 Loadout Structure

The Loadout Structure was a fixed (i.e. stationary) structure at the north end of the site used for containment and stockpiling of material transported from the Mining Structure prior to material loading into railcars. The Loadout Structure was approximately 60-ft wide by 120-ft long and was installed over a portion of the new Shattuck site railroad spur. Monolith material was transported to the Loadout Structure by the conveyor and emptied into a stockpile beneath the conveyor headworks. The material was weighed using a loader bucket scale and placed into the railcars for off-site shipment. Scaffolding and automated self-arresting fall protection systems were constructed in the Loadout Structure for use in lining, loading, tying, and visually inspecting the railcars. Once the railcars were loaded, each railcar was inspected, scanned, sealed, and labeled. The railcars did not leave the Loadout Structure until they completed and cleared radiological screening.

3.3.2 Cover Material Removal

A majority of the top riprap layer of the monolith cover had previously been removed from the site by International Technologies (IT) Corporation and disposed at an approved offsite facility. Prior to monolith demolition the remaining cover material was removed using suitable excavating equipment. Cover material was sampled and analyzed in 500 cubic yard (cy) lots as specified in the CRSADQAP.

Cover materials found suitable were used as on-site backfill. Cover materials found to be unsuitable for backfill (e.g., containing constituents of concern above the cleanup criteria) were moved to the load-out area for off-site transportation to the approved offsite disposal facility along with the monolith and other radiologically affected soils.

3.3.3 Monolith Demolition and Removal

Excavation of radiological material commenced after the cover material was removed. The area of excavation was delineated in site drawings and the monolith material was easily distinguishable by visual means. Originally, the area of the monolith extended across approximately 5 acres of the 5.9-acre site.

Monolith demolition generally proceeded from east to west within the Mining Structure. As monolith material was removed, it was transported to the west end of the mining structure, where it was sized to remove material greater than 18 inches (based on conveyor sizing requirements) and either loaded on the conveyor or stockpiled nearby. Work to demolish the monolith was conducted in accordance with the RAMP and other project documents.

Samples aliquots were obtained to build a stockpile composite sample for on-site laboratory analysis to confirm transportation and disposal (T&D) characterization. Each stockpile was no larger than 500 cy and was represented by no fewer than five approximately equal-sized sampling aliquots. Further sampling details are contained in the CRSADQAP.

3.3.4 Underlying Soil Excavation

Soil underlying the monolith may contain radioactive constituents at activity levels below the original ROD criteria, but above the current Amended ROD criteria. Therefore, a subsurface sampling plan was prepared to identify those soils above Amended ROD criteria that needed to be removed from those areas. The sampling plan consisted of two phases – investigation and targeted removal.

Instrument surveys and sampling and analysis were performed on underlying soil after sufficient monolith material has been removed to permit access and efficient operation. Details concerning the sampling protocol are included in the CRSADQAP, but included pre-verification walkover and pre-verification sampling discussed in general terms below. Areas of underlying soil that displayed radiological activities that exceeded the Amended ROD criteria were excavated and transferred to the Loadout Structure for disposal at the approved offsite facility.

3.3.5 Pre-Verification Walkover Survey

Walkover gamma radiation surveys were performed following monolith excavation activities. For identification purposes each excavated area was identified as a Survey Unit (SU) as discussed in Section 3.3.8 of this report. The equipment, procedures, and personnel used in conducting the Pre-Verification walkover gamma radiation surveys are detailed in the CRSADQAP. Walkover surveys were used to identify areas of elevated activity, relative to

other areas within the SU, rather than to quantitatively determine the level of activity, relative to the Amended ROD criteria.

3.3.6 Pre-Verification Sampling and Analysis

Once the walkover survey indicated that the elevated areas of the SU had been removed, surface samples were collected from those areas and analyzed at the on-site laboratory in accordance with the CRSADQAP. After receiving Pre-Verification analytical results indicating that the SU areas may be expected to meet the Amended ROD criteria, the Mining Structure was relocated to the next building setup. The Pre-Verification sample results were provided to the USACE for concurrence prior to Mining Structure relocation.

3.3.7 Mining Structure Relocation

The Mining Structure remained at each building setup until the monolith material and affected underlying soil have been removed. When the walkover gamma radiation and pre-verification sampling indicated that all excavated areas beneath the building setup would pass Final Status Survey sampling the Mining Structure was moved to the next building setup. Prior to relocating the structure the exposed working face of the monolith was covered to protect individuals from possible exposure to unprotected monolith material.

The Conveyor System connecting the Mining Structure to the Loadout Structure was shortened by the length necessary to accommodate the next location of the Mining Structure. Both the conveyor itself and the conveyor's containment structure were constructed of linked modular units to facilitate this modification.

3.3.8 Final Status Survey

After underlying soils were excavated to the extent that Pre-Verification surveys and sample results indicate that the cleanup criteria have been met, Final Status Survey (FSS) sampling was performed in accordance with the Final Status Survey Plan (FSSP). SU's were established in conformance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) protocol. Each Mining Structure footprint area constituted of one or more SUs, based on total enclosed area and practical operating requirements.

Samples were taken from the floor of the excavation. The equipment and procedures used and the number of samples to be taken in performing the FSS are discussed in the FSSP. In instances where additional material removal was determined to be necessary to achieve FSS acceptance criteria after the Mining Structure had been removed, targeted localized excavations were conducted.

This sequence of demolition, excavation, underlying soil investigation and targeted removal, walkover survey, pre-verification sampling, structure relocation, and FSS sampling were repeated until the entire monolith and underlying soils had been remediated to the Amended ROD cleanup criteria using MARSSIM protocol. A FSS Report was prepared for each SU. Written concurrence was provided by CDPHE that the SU was free of radiological contamination above the Amended ROD criteria in accordance with MARSSIM protocols. After CDPHE concurrence was obtained the SU was released for backfill.

3.3.9 Independent Verification

Independent Verification (IV) sampling was performed in selected survey units by CDPHE. IV sampling included gamma walkover surveys and the collection of soil samples for independent analysis at a CDPHE laboratory. Results of IV sampling were used to corroborate the FSS sampling, or, to direct further excavation work. In Survey Units where IV sampling was performed, the IV sampling data were used to augment the FSS data to document that the SU had been fully remediated prior to releasing the SU for backfill.

3.3.10 Topographic Survey

After the FSS was accepted, the final excavation of each SU was surveyed. The survey was used to establish the final excavated grade of the SU and, in conjunction with the pre-excavation survey, to provide a basis for determining the volume of material removed.

3.3.11 Bannock Street Remediation

In September 2005, work in the Mining Structure to demolish the monolith was temporarily interrupted in order to complete remediation of the Bannock Street right-of-way (ROW), which the USEPA was also obligated to perform. In April 2005, a *Perimeter Soils Options Analysis* (Shaw, 2005) was prepared that evaluated various alternative methods to completing the removal of the east perimeter and Bannock Street ROW soils either separately or concurrently. Based on that analysis, it was determined that the most cost-effective means to complete the required work at the east perimeter of the Site and within the Bannock Street ROW was to complete those actions concurrently. The work along the east perimeter of the site and the Bannock Street ROW was completed between September 2005 and February 2006 in accordance with the RFEPSBSRAWP. The City and County of Denver (CCOD) was responsible for reconstructing the street as remediation work was completed.

3.3.12 Perimeter Soil Excavation

Based on test pit and perimeter boring data collected in early 2002 and 2003 (IT, 2002a, Shaw 2003), portions of the perimeter soils (i.e. soils lying between the footprint of the monolith and the property boundary) were identified as containing Radionuclides of Concern (ROC's) above the Amended ROD cleanup criteria. Samples were collected from each perimeter boring at 1-foot intervals. Samples results were used to establish subsurface intervals where radiological activity exceeded the activity specified in the Amended ROD. Those intervals were excavated and disposed at the approved offsite facility in accordance with the RFEPSBSRAWP.

3.3.13 Molybdenum Pond Remediation

The approximately 1-acre sized former molybdenum pond covered portions of SU018, 019, 021, and 027 at the north end of the Shattuck property. As part of the work to remediate the former molybdenum pond, soil beneath the footprint of the former pond was excavated to bedrock and placed into 500 cy stockpiles at other locations around the site. Soil samples were collected from the excavator bucket as each stockpile was being constructed. Each of the composite samples from the soil stockpiles were analyzed on-site by gamma spectroscopy analysis for site ROC's and molybdenum.

A field screening sampling and analysis program to analyze for molybdenum was conducted by the USEPA. The analysis was performed using a portable X-Ray Fluorescence (XRF) spectrometer. This screening method had previously been proven to provide reliable data by duplicate analysis performed using analytical laboratory wet chemistry techniques.

The disposition of each soil stockpile was dependent on the outcome of the various analyses. If the materials contained ROC's in excess of the Amended ROD criteria they were loaded and shipped to the approved offsite facility receiving radiological materials from Shattuck. If the radiological criteria were not exceeded, but the soil contained molybdenum in excess of the screening criteria it was loaded and transported for disposal at an approved local landfill. If the material contained neither ROC's nor molybdenum in excess of the Amended ROD or screening criteria it was retained onsite for use as fill.

3.3.14 Backfill Operations

Backfill and site restoration activities progressed from south the north, independent of the mining, materials handling, and railcar loading operations. A SU was not backfilled until CDPHE had concurred with the results of FSS Report for that SU and at the direction of USACE.

Backfill material consisted of reclaimed cover material or reclaimed fill from underlying and perimeter soil excavation, if the radiological activities were below the Amended ROD criteria. Additional materials were brought in from offsite borrow sources after those materials had been sampled in accordance with the IFSP. The backfill material was placed into approved SUs and spread in loose horizontal lifts approximately 8 to 12 inches thick. The materials were then compacted by traversing the area with a dozer or wheel loader.

3.3.15 Site Restoration

The site was graded to its final configuration as detailed in the TMSCSESRO. A vegetative cover was established over the site by hydroseeding. A detention pond, connected to the City and County of Denver (CCOD) storm sewer system, was constructed at the north end of the property. At the conclusion of restoration activities a final land survey was completed in order to document the final grade on the site.

3.3.16 Operation and Maintenance

Because all contaminated material has been removed from the site and the site has been completely remediated there is no long-term operation and maintenance (O&M) associated with the Amended ROD remedial action other than maintenance of a stand of grass vegetation on the site. The property trustee has assumed responsibility for that maintenance and eventual sale of the property for unrestricted future use.

4.0 Chronology of Events

A tabular summary listing the major events for OU VIII of the Denver Radium Sites (Shattuck) is provided in this section.

Table 1. Chronology of Events

Event	Date
1. National Priority Listing	September, 1983
2. Feasibility Study Completion	1991
3. Record of Decision	January 1992
4. ROD Implementation (Start/Finish)	1992/September 1998
5. 5-Year Review	November 1999
6. Amended Record of Decision	June 2000
7. Amended ROD Implementation (Start/Finish)	September 2002/September 2006
7A. Design Submittal	October 2002
7B. Mobilization	December 2002
7C. Building Erection (Start/Finish)	December 2005/March 2006
7D. Perimeter Air Monitoring (Start/Finish)	March 2003/August 2006
7E. Monolith Demolition (Start/Finish)	March 2003/March 2006
7F. Bannock Street Remediation (Start/Finish)	September 2005/February 2006
7G. Perimeter Soils Removal (Start/Finish)	October 2005/July 2006
7H. Molybdenum Soils Removal (Start/Finish)	May 2006/July 2006
7I. Final Status Surveys (Start/Finish)	August 2003/August 2006
7J. Independent Verification	August 2003/August 2006
7K. Backfill (Start/Finish)	May 2005/July 2006
7L. Site Restoration/Vegetation	August 2006
8. Demobilization	September 2006

A total of 55 Field Work Variances (FWV's) were issued over the duration of the Amended ROD remedial action. A FWV log is provided in Appendix A.

5.0 Performance Standards and Construction Quality Control

This Section describes the overall performance of the technology as compared to the cleanup goals and the Quality Assurance/ Quality Control (QA/QC) Programs that were implemented during completion of Amended ROD remedial action activities.

5.1 Technology Performance

Work completed under the Amended ROD consisted of excavation, transportation, and offsite disposal at an approved facility of site materials, including soil and soil-like materials (i.e. monolith). As such, all site materials exhibiting radiological characteristics in excess of the Amended ROD criteria (detailed in Section 2.2 of this report) have been removed from the Shattuck site.

5.2 Material Quantities

Upon completion of the remedial action approximately 243,872 tons of contaminated materials were excavated and disposed as part of the combined work at both Shattuck and Bannock Street. Monthly quantity data for the duration of the project are provided in Appendix B. Additionally, a breakout of materials generated from work conducted on Shattuck and those generated from Bannock Street work is also provided in Appendix C.

5.3 Sample Collection and Analysis

An extensive sampling and analysis program was maintained at Shattuck for the duration of the project. The sampling and analysis program included sampling and analysis of site materials including clean cover, transportation and disposal (T&D), pre-verification (PV), Final Status Survey (FSS), borrow source, stockpile, and surface wipe sampling. Each of those sampling and analysis activities is summarized in the following section.

5.3.1 Material Sampling Plans

All materials excavated as part of the remediation work on both the Shattuck site and Bannock Street were sampled to determine the disposition of those materials. All materials sampling and analysis was conducted in accordance with the project plans identified in Section 3.1 of this document. In instances where materials were found not to contain radiological or metals contamination exceeding the ROD or Amended ROD criteria those materials were reused at the site. All other materials were disposed at an approved offsite disposal facility.

Material sampling activities included:

- Clean Cover: Clean Cover materials were sampled for radiological contamination before they were removed from the monolith. The samples were analyzed by gamma spectroscopy for Ra^{226}, Th^{230}, and U-nat using the onsite laboratory. In the case of clean cover materials, none of those materials were found to contain radiological activities exceeding the Amended ROD criteria. Consequently, all of the clean cover materials were re-used on the Shattuck site as fill.

- Transportation and Disposal (T&D) Sampling: T&D sampling and analysis was performed on excavated materials prior to being loaded into railcars. Samples were collected from material stockpiles in the Loadout Structure. A minimum of one sample was collected from each 500 cy stockpile and analyzed by gamma spectroscopy for Ra^{226}, Th^{230}, and U-nat using the onsite laboratory. The analytical results were used to determine the transportation classification of the materials in accordance with United States Department of Transportation (USDOT) regulations.

- Pre-verification (PV) Sampling: Following removal of the monolith and underlying soil to the 1996/97 Construction Surface, PV sampling was conducted on the newly exposed soil surface. PV sampling included two components, a gamma walkover survey and the collection of physical soil samples for analysis. The gamma walkover was performed using an unshielded gamma scintillator.

  Two passes, one in a north south direction and one in an east west direction, were made with the scintillator. The data collected from the walkover was used to identify the location of remnant contamination (i.e. pieces of monolith or soil with elevated gamma readings) in the survey area. To perform sample collection each SU was divided into 30 foot x 30 ft grids. Each of these grids was further divided into nine 10 foot x 10 foot grids. Soil samples were collected from five of the nine smaller grids and analyzed by gamma spectroscopy for Ra^{226}, Th^{230}, and U-nat using the onsite laboratory. When the data from both the gamma walkover and the PV sampling indicated that all contaminated material had been removed the area was deemed ready for Final Status Survey (FSS) sampling.

  PV sampling was also conducted in SU's located outside of the monolith footprint. For example, PV sampling was performed in each SU within the Bannock Street ROW and in

the SU's associated with the molybdenum pond, etc., that lay within the Shattuck property boundary but outside the monolith footprint.

- Final Status Survey Sampling: FSS sampling was performed in each SU not excavated to bedrock following PV sampling. In conjunction with any Independent Verification (IV) sampling and analysis performed by CDPHE the FSS sampling was used to provide the final evidence that an SU had been cleared of all radiologically contaminated material. FSS samples were not collected from the "rock" of the bedrock surface in instances when the excavation proceeded to that surface.

  To conduct the FSS sampling, a 21-point grid pattern was established in each SU in accordance with MARSSIM guidelines. Soil samples were collected from each sample location and analyzed by gamma spectroscopy for Ra^{226}, Th^{230}, and U-nat using the onsite laboratory. If radiological activity was reported in any sample in excess of the Amended ROD criteria additional excavation work was performed in the area represented by that sample. Once radiological activity was reported below the Amended ROD criteria in all FSS samples from a SU the samples were then sent to an offsite laboratory for analysis using alpha spectroscopy. The additional offsite analysis was performed primarily because of the poor correlation of the actual activity of Th^{230} and that reported by gamma spectroscopy. The samples were allowed to decay for approximately 28 days prior to analysis to eliminate radon daughter decay products that would interfere with the decay counts to disintegrate. An FSS report was prepared for each SU at the site as well as within Bannock Street. Those reports were reviewed and approved by CDPHE confirming the SU was clean and available for backfill.

- Borrow Source Sampling: Imported backfill materials were sampled prior to their use at Shattuck. Two borrow areas were used to complete backfilling of the excavated Shattuck site. One area was located at the Van Bibber Creek flood control project in Arvada, Colorado. The other source was located at Colorado Christian University in Lakewood Colorado. A geoprobe was used to collect *in-situ* samples from both of these sources prior to the material being excavated. All sampling and analysis was conducted in accordance with the Sampling Plan for Import Fill (Shaw, 2004). All borrow materials were shown to be free of radiological and chemical contamination (Appendix D).

- Stockpile Sampling: In some instances excavated materials were stockpiled onsite, such as during the excavation of soil between the underlying monolith soils and the 1996/97 Construction Surface or during the molybdenum pond excavation. In these instances

stockpiles not exceeding 500 cy were constructed. Composite samples were collected as each stockpile was being constructed. If the stockpiles were constructed of the soil excavated from between the underlying soil and the 1996/97 Construction Surface the composite sample from that stockpile was analyzed by gamma spectroscopy for Ra^{226}, Th^{230}, and U-nat using the onsite laboratory. Samples collected from stockpiles constructed of materials excavated from the "molybdenum pond" area were also analyzed for molybdenum by the USEPA. Onsite, real-time, x-ray fluorescence (XRF) field screening and/or offsite wet chemistry were used to perform the molybdenum analysis. The results of those analyses were compared to either the Amended ROD radiological criteria or cleanup criteria established for molybdenum, as appropriate for the stockpiled material. If the stockpiles samples exceeded the established criteria they were loaded and transported to the approved offsite disposal facility. Otherwise the materials were used as onsite fill.

- Surface Wipe Sampling: Surface wipe samples were collected from the outer surfaces of railcars, automobiles, equipment, sample containers, clothing, or other items leaving the exclusion area or railcar loading area that could potentially be contaminated. Analysis of these samples was conducted in order to release material from the site for unrestricted use. Additionally, samples were collected and analyzed from the Mining, Conveyor, and Loadout Structures prior to those structures being demolished and removed from the site. Samples were also collected from jobsite support facilities including job trailers, the guard shack, etc. prior to those buildings being move to an offsite location. All items that left the Shattuck site met the free-release criteria.

- BNSF Property Sampling: Soil samples were collected from BNSF property in the footprint of the Loadout Structure prior the construction of the concrete pad foundation. Upon project completion, and following demolition of the Loadout concrete pad foundation, soil samples were collected from those same locations. Additionally, during remediation of the former molybdenum pond some railcar loading took place at a separate location on the Shattuck spur. Pre- and post loading soil sampling was also conducted in this area.

  The purpose of the pre- and post sampling was to ensure that residual radiological contamination had not been left on the BNSF property. As shown in Appendix E none of the sampling results indicate that remedial actions at the Shattuck site have resulted in contamination of BNSF property.

The extensive materials sampling and analysis program that was implemented as part of the remedial action at the Shattuck site was intended to ensure that no contaminated media left the site (other than by planned means of transportation) and that no contaminated materials were brought onto the site as part of the reclamation effort.

5.4 Analytical Data Quality Control

Methods and procedures detailed in the CRSADQAP were used to assure results of analytical data reported during execution of the project met the Data Quality Objectives (DQO's) of that plan. Deviations from that plan were documented in 14 FWV's issued over the duration of the project. Issues addressed in the FWV's included rinse, duplicate, and replicate sample collection, dosimetry, wipe sample collection and analysis on incoming railcars, etc. All FWV applicable to the CRSADQAP are contained in a forward in that document. Deviations from the plan generally addressed changing analytical requirements, changing regulatory requirements, or other adjusts to ensure the DQO's would be achieved. All data collected over the duration of the project met the DQO's.

5.5 Construction Quality Assurance and Construction Quality Control

Execution of the Amended ROD remedial action at Shattuck was completed in accordance with the Construction QA/QC and Work Plans identified in Section 3.1; specifically the CQCP and supplements to that plan that addressed remedial construction activities in Bannock Street and the east and west perimeter of the Shattuck site.

The CQCP was implemented and audited to ensure that technical design and construction quality objectives were met and conform to the requirements of the Task Order. The CQCP identifies the project Quality Control Organization; defines communications, documentation, and record-keeping procedures; and establishes QC procedures, including the necessary supervision and tests.

Deviations from those plans were documented in 55 FWV's issued over the duration of the project. Deviations to any of the plans generally addressed site specific conditions found in the field as work progressed. None of the deviations adversely affected implementation or completion of the Amended ROD remedial action.

6.0 Final Inspections and Certifications

6.1 Remedial Action Inspections

A three-phase Inspection process for each definable feature of work was implemented. These included:

- **Preparatory Phase Inspection** – Review and document applicable specifications and verify that the necessary resources, conditions, and controls are in place.

- **Initial Phase Inspection** – Check and document preliminary work for compliance with procedures and specifications, establish acceptable level of workmanship, and check for omissions and resolve differences of interpretation.

- **Follow-Up Phase Inspection** – On-site monitoring and documentation of the practices and operations taking place and verifying continued compliance with the project specifications and requirements. Outstanding and nonconforming items or practices will be identified, along with corrective measures.

Upon conclusion of a definable feature of work, a review was completed to verify that documentation was in order prior to close out and transfer of files to USACE. No deficiencies were identified in the completed work.

6.2 Health and Safety

Sampling and analysis programs were implemented to ensure that site worker safety and community/environmental protection were being attained during execution of the remedial action at Shattuck. Site worker protection and community/environmental protection sampling and analysis programs that were implemented at Shattuck are summarized in the following sections.

6.2.1 Worker and Community/Environmental Health and Safety

As identified in Section 3.1 of this document Site Safety and Community Safety Plans were developed for the Shattuck project. Those plans were implemented and audited to ensure both worker and public protection throughout the remediation effort. The plans established requirements in regard to medical surveillance and bioassays, personnel protective equipment (PPE), air monitoring, restricted work areas, hazardous and radiation work permits, training requirements, emergency response, notifications, and waste minimization and pollution prevention.

An As Low As Reasonably Achievable (ALARA) Program was implemented as part of the safety plans to reduce the radiation exposures personnel may receive. Reasonable efforts were made to keep radiation exposures, as well as releases of radioactive material to unrestricted areas, to levels that are ALARA.

6.2.1.1 Worker Health and Safety Sampling and Analysis

Employee exposure to airborne radioactivity and other airborne hazards was monitored by a program of personal and work area air sampling and analysis. Airborne hazards that were continually evaluated included:

- Airborne radionuclides and radon,
- Total nuisance dust,
- Airborne silica,
- Airborne metals including arsenic, selenium, lead, and;
- Carbon monoxide, oxides of nitrogen, and ammonia.

Samples were collected and analyzed for other inorganic and organic contaminants on an "as-need" basis at the discretion of the Site Safety Officer (SSO). All sampling and analysis performed as part of the Worker Health and Safety program was done so in accordance with project safety, radiological protection, or QA/QC plans identified in Section 3.1 of this report. Results of sampling and analysis for worker protection were reported to USACE on a monthly basis in a "Monthly Analytical Data Summary Report". Annual dosimetry reports were prepared for each site worker by the Radiation Safety Officer (RSO). Over the duration of the project none of the site workers were exposed to radiological or environmental contaminants in excess of allowable federal, state, or local regulations or guidelines.

6.2.1.2 Community/Environmental Health and Safety Sampling and Analysis

Community/Environmental Health and Safety Monitoring were accomplished by conducting perimeter air monitoring at eight perimeter air sampling stations surrounding the site. Additionally, a single background air quality sample was also collected from a station located at the City of Englewood Golf Course.

Both high-volume and low volume air samples are collected from the sampling stations. High volume air samples collected from these stations are analyzed for:

- total suspended particulates (i.e. dust),
- airborne radioactivity, and;
- airborne metals analysis.

Low volume samples were analyzed for:

- a-emitting radionuclides.

All sampling and analysis performed as part of the Community and Environmental Health and Safety program was done so in accordance with project safety, radiological protection, or QA/QC plans identified in Section 3.1 of this report. Results of sampling and analysis for community protection were reported to USACE on a monthly basis in a "Monthly Analytical Data Summary Report". Data collected as part of the community/environmental health and safety monitoring program documented that exposure limits for the general public were not exceeded during execution of the work at the Shattuck site (Appendix F).

In addition to the above community and environmental sampling program a vibration monitoring program was also implemented at the site to measure vibrations associated with on-site activities such as monolith demolition and loadout operations. The vibration monitoring was performed to ensure that the use of repetitive motion equipment (i.e. breakers, etc.) did not cause damage to surrounding facilities and building foundations. All maximum on-site vibration measurements were significantly below site standards specified in the CSHP.

6.3 Institutional Controls

Although all contaminated materials were removed from the site, operation and maintenance activities are still necessary to monitor the remedy.

The State Engineer has agreed to include on each permit application correspondence, each well permit, and each acknowledgement for a Monitoring Hole Notice of Intent for the affected area a notice that the applicant should contact the CDPHE and the USEPA for information regarding ground water quality. The State Engineer has also agreed to provide copies of such correspondence or well permits containing the notice to the CDPHE and the USEPA. The affected area has been delineated by USEPA and CDPHE.

The following procedural requirements shall apply to implement this agreement:

1) The boundary of the affected area is plotted on the Division of Water Resources work maps with a note to refer to this memorandum for details of the notification requirements. The affected area in Township 4 South, Range 68 West is: the west 1/2 of Section 15, the east 1/2 Section of 16, the east 1/2 Section of 21, and the west 1/2 of Section 22.

2) This procedure shall apply to all ground water within the affected area, including ground water found in the Denver Basin bedrock aquifers.

3) The notice shall apply to each well permit application correspondence, each well permit, and each acknowledgement letter for a monitoring hole notice of intent.

4) The notice on each well permit shall read as follows:

   NOTICE: THIS WELL IS WITHIN THE DENVER RADIUM SITE WHERE CONTAMINATION MAY BE ENCOUNTERED. CONTACT THE COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT AT 303-692-3311 OR THE USEPA AT 303-312-6552 FOR DETAILS PRIOR TO DRILLING THIS WELL.

5) The notice on each well permit application correspondence and each acknowledgement of monitoring and observation hole notice of intent shall read as follows:

   NOTICE: THIS PROPOSED WELL OR SUBJECT AREA IS WITHIN THE DENVER RADIUM SITE WHERE GROUND WATER CONTAMINATION MAY BE ENCOUNTERED. PRIOR TO PROCEEDING WITH THIS APPLICATION YOU SHOULD CONTACT THE COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT AT 303-692-3311 OR THE USEPA AT 303-312-6552 FOR MORE DETAILS CONCERNING THE LIKELIHOOD OF ENCOUNTERING THIS CONTAMINATION, OR PROCEDURE AND PRECAUTIONS NEEDED DURING WELL CONSTRUCTION.

6) A copy of each well permit or any correspondence containing the notice prescribed in Items 4) and 5) above shall be mailed to the following entities:

   a) Mr. Mark Rudolph
      CDPHE
      HMWMD-RP-B2
      4300 Cherry Creek Drive
      Denver, CO 80246

b) Ms. Rebecca Thomas
U.S. Environmental Protection Agency
8 EPR-SR, 6S-407
999 18th Street, Suite 300
Denver, CO 80202

7.0 Operation and Maintenance Activities

The Amended ROD called for complete removal of contaminated soils at the Shattuck site. Remedial actions performed at Shattuck were successful in removing all contaminated materials from the site. Operation and maintenance activities necessary to monitor the remedy are detailed in *Section 6.3 Institutional Controls*.

Care of the property, including watering and mowing the grass, trash pickup, etc. are the responsibility of the trustee until such time as the property is sold to a private entity.

8.0 Summary of Project Costs

Project costs are provided in Table 2 below. As shown five principle contracts were awarded by USACE for completing the work. The bulk of the remedial action work at Shattuck was completed under the last three contracts shown in that table.

The costs shown for MHF Logistical Solutions and US Ecology are actual final costs. The cost shown for Shaw E&I is an estimated final cost. The actual final cost for Shaw E&I will become available in December 2006 after all administrative contract closeout actions have been completed between Shaw and USACE.

The estimated cost provided in the Amended ROD for completing monolith removal at the site was $20.0 million. The increased actual cost compared to the estimated cost can be attributed to two principle factors. First, it was initially estimated that 165,000 tons of monolith and underlying and perimeter soils would be generated for offsite disposal by remedial actions at the site. At project completion 243,872 tons of radiologically contaminated materials were delivered from the Shattuck Site to the U.S. Ecology disposal facility. The final tonnage actually shipped includes additional radiological contaminated materials from Bannock Street and some radiological materials from the molybdenum pond area at the north end of the Shattuck site. The quantities of material from Bannock Street and molybdenum pond excavations were not included in the original quantity estimates for the project.

Second, the average density of the monolith material was estimated to be approximately 2,600 to 3,000 pounds per cubic yard. The actual density of the material ranged from 3,400 to 3,800 pounds per cubic yard. Consequently, less volume of material could be loaded into each railcar thus increasing the number of railcars needed to transport the material resulting in increased transportation cost.

A revised estimate to complete the work was provided to the USEPA and USACE by Shaw in 2003. A cost of $54,000,000 was proposed in that revised estimate to complete the work. That estimate is within approximately 5 percent of the final paid amounts.

In addition to the 243,872 tons of radiologically contaminated material shipped from the site approximately 10,402 tons of material excavated from the molybdenum pond area was found to contain molybdenum above the screening criteria. Those materials were shipped to Conservation Service, Inc., a local approved landfill. Therefore, a total of approximately 254,274 tons of material were disposed at approved offsite disposal facilities.

Table 2. Project Cost Summary

Shattuck Chemical Superfund Site Status of Contracts September 13, 2006			
Contractor	**Awarded**	**Current Period of Performance**	**Total Paid**
IT, Inc (Remedial Action DO 7)	$4,116,807.00	31 December, 2006	$4,116,807
Shaw E&I (Remedial Action DO 27 -Omaha)	$30,000.00	31 December, 2006	$29,500
Shaw E&I (Remedial Action DO 31 -Omaha)	$22,505,724.00	31 December 2006	$20,509,958.18[1]
MHF Logistical Solutions (Transportation)	$16,887,532	31 August 2006	$16,661,491.23
US Ecology (Disposal)	$16,153,999	31 August 2006	$15,808,801.65
Total Contracts	$59,694,062.00		$57,126,558.06

Notes: [1] Total paid as of August 22, 2006. Additional cost will be required to complete project closeout prior to December 31, 2006.

Based on the total tonnage excavated and the total paid out by USACE the unit cost for completing work at Shattuck was $224.66/ton including remedial action, transportation, and disposal. A detailed breakdown of the cost to complete the remedial action is provided in Appendix G.

9.0 Observations and Lessons Learned

Observations and lessons learned during execution of the work to complete the Amended ROD remedial actions at Shattuck fall within four general categories. Those general categories include contractual, community relations, technical, and safety. Specific lessons learned are identified here.

9.1 Contractual

Items identified as contractual lessons learned include:

- Partnering: The development of a strong partnership between USEPA, USACE, CDPHE, CCOD, and the Contractor was a significant factor in the success of the project. While each organization possessed a different perspective of the work the development of a unified team with defined common goals, open communication, both within the team and when communicating to other outside organizations, ensured successful completion of the work,
- Subcontractor Scope: Correctly defining subcontractor scopes-of-work allowed for seamless completion of the work. Each phase of the work proceeded from its predecessor without interruption,
- Subcontractor Performance: During project startup performance issues were identified with a Shaw contractor. Closely working with each contractor to understand scope, schedule, and budget can prevent protracted disputes between contractors,
- Establishing Project Metrics and Reporting Strategy: By establishing project metrics and a reporting strategy between the agencies and the Contractor each organization understood how progress was to be measured and reported throughout execution of the work,
- Incremental Funding: While incremental funding is not inherently difficult to manage or administer, difficulty did arise toward the end of the Shattuck project as available funding tightened. Nearly continuous contractual actions (modifications) were necessary to support the work resulting in the use of an inordinate amount of time by each organization involved to administer those contracting actions. At the beginning of a project the use of incremental funding should be rationally and logically planned for the duration of the project.

9.2 Community Relations

Development of a strong working relationship with the surrounding residential and business community also contributed to the successful completion of the project. Factors key to establishing and maintaining that relationship were:

- Open, honest, communication (when dealing with both pleasant and unpleasant topics), and providing the community a clear understanding of the nature and scope of the work and how it affects them,
- Allowing the community a venue to express their opinions, concerns, comments, and to participate in the decision making process through regularly scheduled meetings, and providing the community an independent technical advisor to assist them in understand technical topics and issues,
- Receiving "buy-in" from the community before proceeding with substantive actions.

9.3 Technical

Several lessons were learned as a result of the unique methods used to complete the mining of the monolith within a movable enclosed structure and loading and shipping materials by rail. Those lessons include:

- Nine "moves" of the Mining Structure were required to complete demolition of the monolith. Several technical innovations were added to the original building design to facilitate the move. Each of the five modules was "towed" simultaneously to each new position using a winch, pulley, and cable system. In order not to overly stress the building a dynamometer system was added to the cabling so the magnitude of the stresses applied to the building could be measured.

  To better control the buildings movement a braking system, also consisting of a winch, pulley, and cable system, was connected to the back of each of the five modules. In combination with the front winch system the movement of each module could be accurately controlled,

- Concrete demolition produced large quantities of dust within the Mining Structure leading to concerns for worker health and safety from silica exposure. Because of the extremely fine grain size of the dust particles conventional dust control measures (i.e. fire hose water suppression, conventional sprinklers, etc.) were ineffective at controlling the dust. The large quantities of dust generated caused the need for frequent and expensive filter changes on the air handling units (AHUs).

The solution was the use of an engineered "fog cannon" that produced a fine water mist. The mist droplets were sized by engineering methods to match the size of the dust particles. As a result the water would adhere to the dust particles rather than displacing them. This solution provided significant cost savings by reducing the frequency of AHU filter changes needed over the project life,

- The use of heavy equipment within the confined structures resulted in the need to control vehicle emissions. Several technical solutions, borrowed from the underground mining industry, were applied to Shattuck. These included the use of high-grade, low sulfur containing diesel fuel, combined with "soot filters" on each piece of equipment operating in the structure to control particulate emissions and the use of positive ventilation systems to remove toxic fumes (NO_x and CO) from the interior atmosphere of each structure. These solutions protected worker health and safety from vehicle emissions exposure and provided significant cost savings by also reducing the frequency of AHU filter changes needed over the life of the project,

- Any future project requiring the use of railways within the United States should anticipate long lead times (up to several month) to negotiate track leasing agreements particularly on federal contracts. It should be anticipated that legal assistance will be required in order to negotiate terms and conditions between the railroad, the United States Government, and the Contractor. The cost for insurance should not be under estimated by the Contractor.

9.4 Safety

At project completion 1429 consecutive days of work were completed at Shattuck without a lost time incident. Factors that attributed to this safety record include:

- Establishment of a safety culture. That culture was established at the beginning of the project and maintained for the project duration,
- "Buy-in" from site workers that actively participating in a strong safety culture was in their own best interest,
- Development of a Safety Incentive Program that rewarded worker for actively participating in the safety culture,
- USEPA and USACE support of the Safety Incentive Program.

As a result the Shattuck project was awarded the USACE Omaha District Commander's Safety and Occupational Health Award in 2005.

10.0 Operable Unit Contact Information

Contract information for regulatory agencies, the prime contractor, and the site trustee are provided below.

USEPA		
Jim Hanley P.E. Project Manager USEPA (8SR) 999 18th St. Denver, CO 80202-2466 303.312.6725 voice 303.312.6897 fax hanley.james@epa.gov	Mike Holmes Project Manager USEPA (8SR) 999 18th St. Denver, CO 80202-2466 303.312.6607 voice 303.312.6961 fax holmes.michael@epa.gov	Rob Henneke Community Relations USEPA (8OC) 999 18th St. Denver, CO 80202-2466 303.312.6734 voice 303.312.6961 fax henneke.rob@epa.gov
CDPHE		
Fonda Apostolopoulos Project Manager CDPHE 4300 Cherry Creek Dr S. Denver, CO 80246 303. 692.3411 Fonda.Apostolopoulos@state.co.us	Jeannine Natterman State Community Relations Coordinator CDPHE 4300 Cherry Creek Dr S. Denver, CO 80246 303 692-3303 Jeannine.Natterman@state.co.us	
USACE		
Jay Hodges, P.E. Program Manager U.S. Army Corps of Engineers Omaha District Attn: CENWO-PM-H (Hodges) 106 South 15th Street Omaha, NE 68102-1978 Phone 402-221-7838 Fax 402-221-7838	Andrew L. Winslow, PE CENWO-CD-RR Construction Division, Project Engineer P.O. Box 13287 Bldg 525 Castle Hall Offutt AFB, NE 68113 402/293-2532 402/291-8177 (fax) 402/216-4250 (cell)	Russell Wiggs USACE Onsite Construction Representative (Contact Mr. Wiggs through Andrew Winslow)
Shaw Environment and Infrastructure		
John Gabriele P.E. Project Manager 9201 E. Dry Creek Centennial, CO 80112 303.741.7084	Gary Parks P.G. Project Manager 9201 E. Dry Creek Centennial, CO 80112 303.741.7398	Pat McGinnis P.E. Program Manager 9201 E. Dry Creek Centennial, CO 80112 303.793.5270
Trustee		
Thomas Connolly 390 Interlocken Crescent Suite 490 Broomfield, CO 80021 303-661-9292 tom@crlpc.com		

11.0 References

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Shaw E & I, 2002d. *Chemical and Radiological Sampling, Analysis, and Data Quality Assurance Plan*, Shattuck Chemical Superfund Site, Denver, Colorado.

Shaw E & I, 2002e. *Community Safety and Health Plan*, Shattuck Chemical Superfund Site, Denver, Colorado.

Shaw E & I, 2002f. *Site Health and Safety Plan*, Shattuck Chemical Superfund Site, Denver, Colorado.

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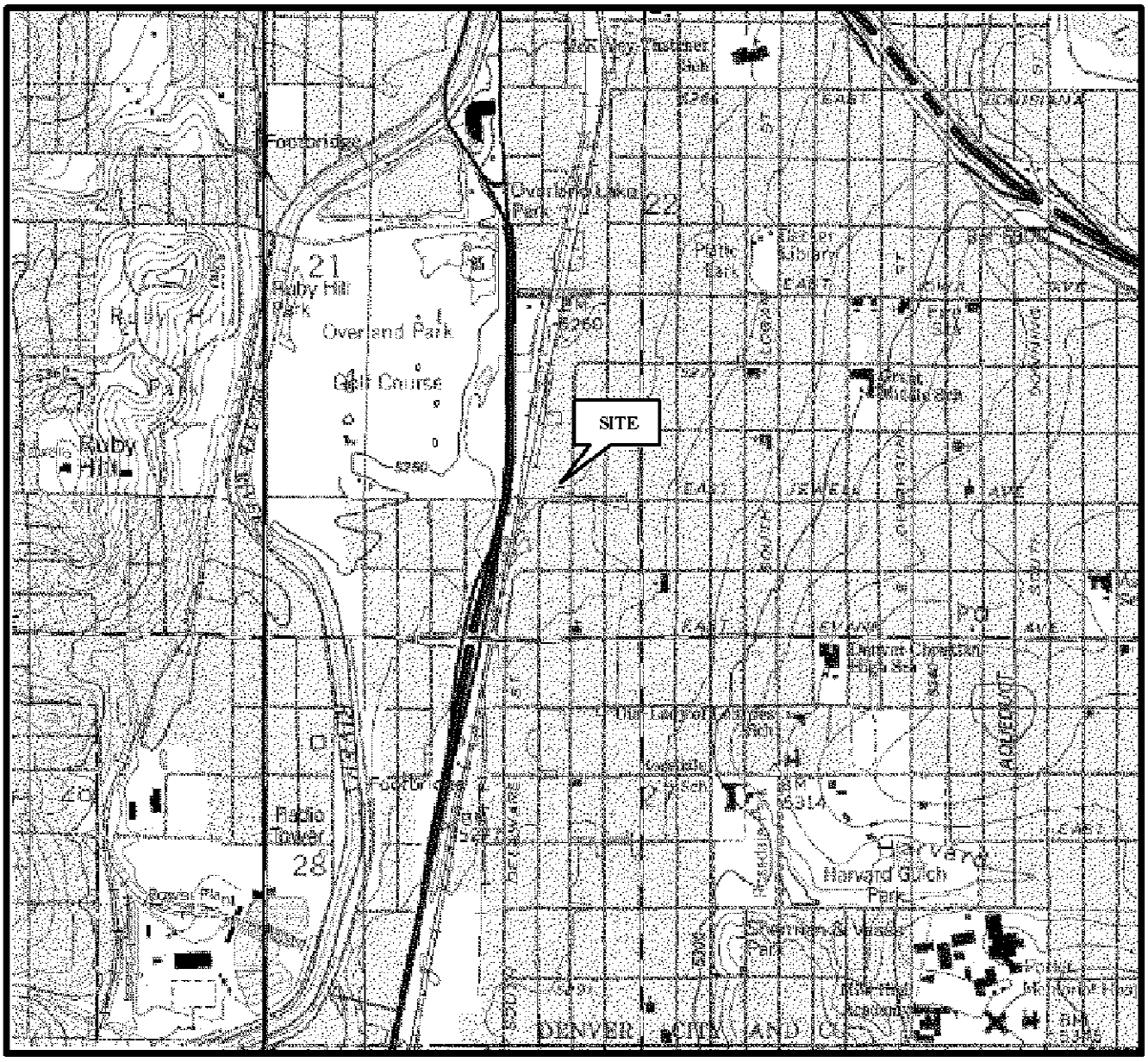
Shaw 2005b. *Final West Perimeter Soil Remedial Action Work Plan,* Shattuck Chemical Superfund Site, Denver, Colorado.

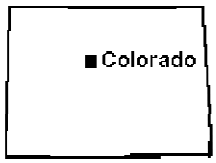
Shaw 2005c. *Technical Memorandum Shattuck Chemical Site Evaluation of Site Restoration Options*, Shattuck Chemical Superfund Site, Denver, Colorado.

Shaw 2006a. *Decommissioning Plan to Support Mining Structure Free Release,* Shattuck Chemical Superfund Site, Denver, Colorado.

Shaw 2006b. *Decommissioning Plan to Support Loadout Structure Fee Release,* Shattuck Chemical Superfund Site, Denver, Colorado.

FIGURES





QUADRANGLE LOCATION

ENGLEWOOD, CO &

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT

SHATTUCK SUPERFUND SITE

FIGURE NUMBER 1

SITE LOCATION MAP

REVISION	DESCRIPTION	CHKD	APPR	DATE
A	ISSUE TO ARMY AND AGENCIES	GDP	GDP	11/29/05

	BY	DATE		BY	DATE		BY	DATE		BY	DATE
DSGN	MEC	11/01/05	DRAWN	MEC	11/01/05	CHKD	GDP	11/02/05	APPR	GDP	11/02/05

Shaw™ Environmental, Inc.

PROJECT NO.	REV.	FILE NAME
840350.1100	0	4035B260

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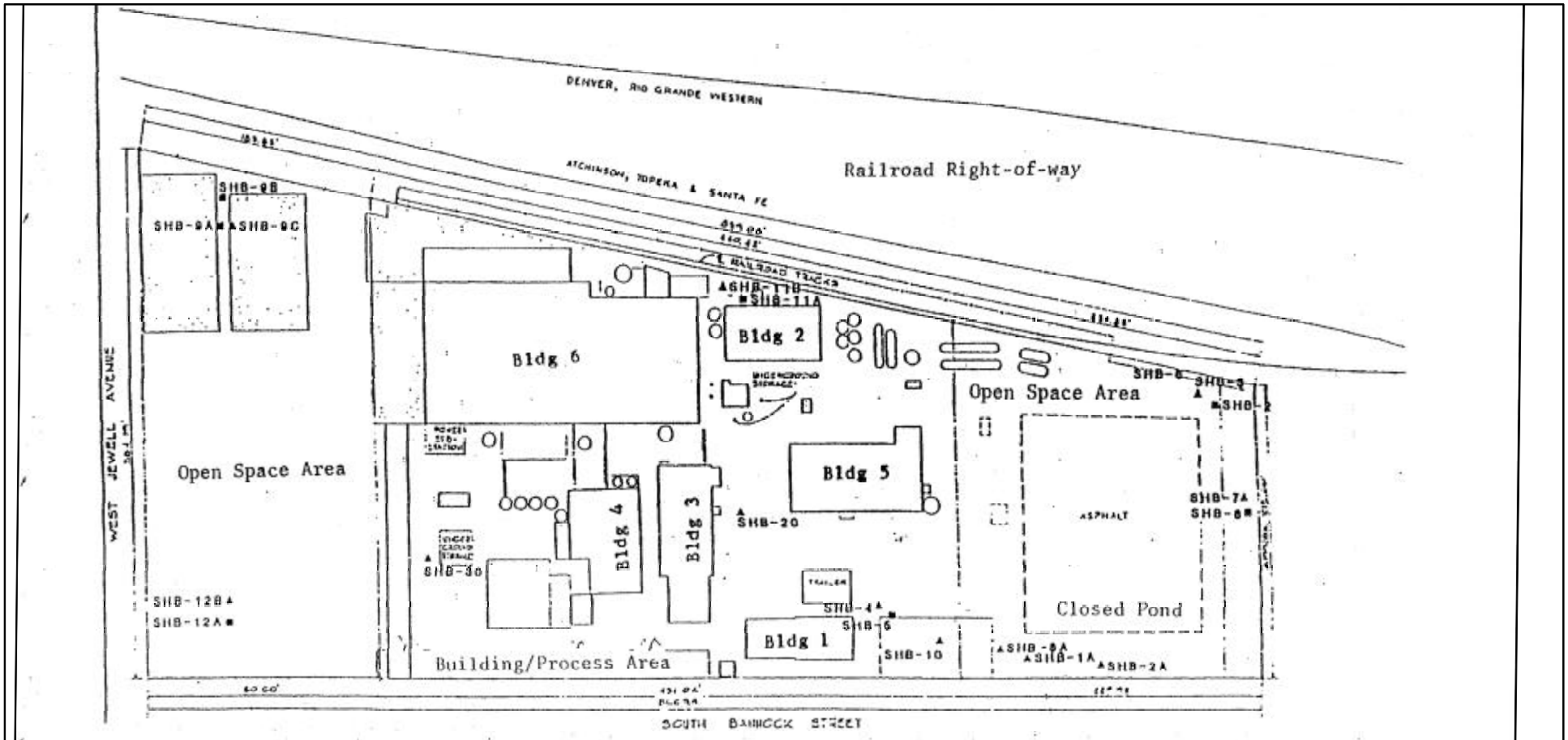


NOT TO SCALE

REVISION	DESCRIPTION	CHKD	APPR	DATE
A	ISSUED TO ARMY	DEV	GDP	07/20/06

	BY	DATE		BY	DATE		BY	DATE		BY	DATE
DSGN	DEV	07/19/06	DRAWN	MEC	07/19/06	CHKD	DEV	07/19/06	APPR	GDP	07/19/06

U.S. ARMY CORPS OF ENGINEERS
OMAHA DISTRICT

SHATTUCK CHEMICAL SUPERFUND SITE

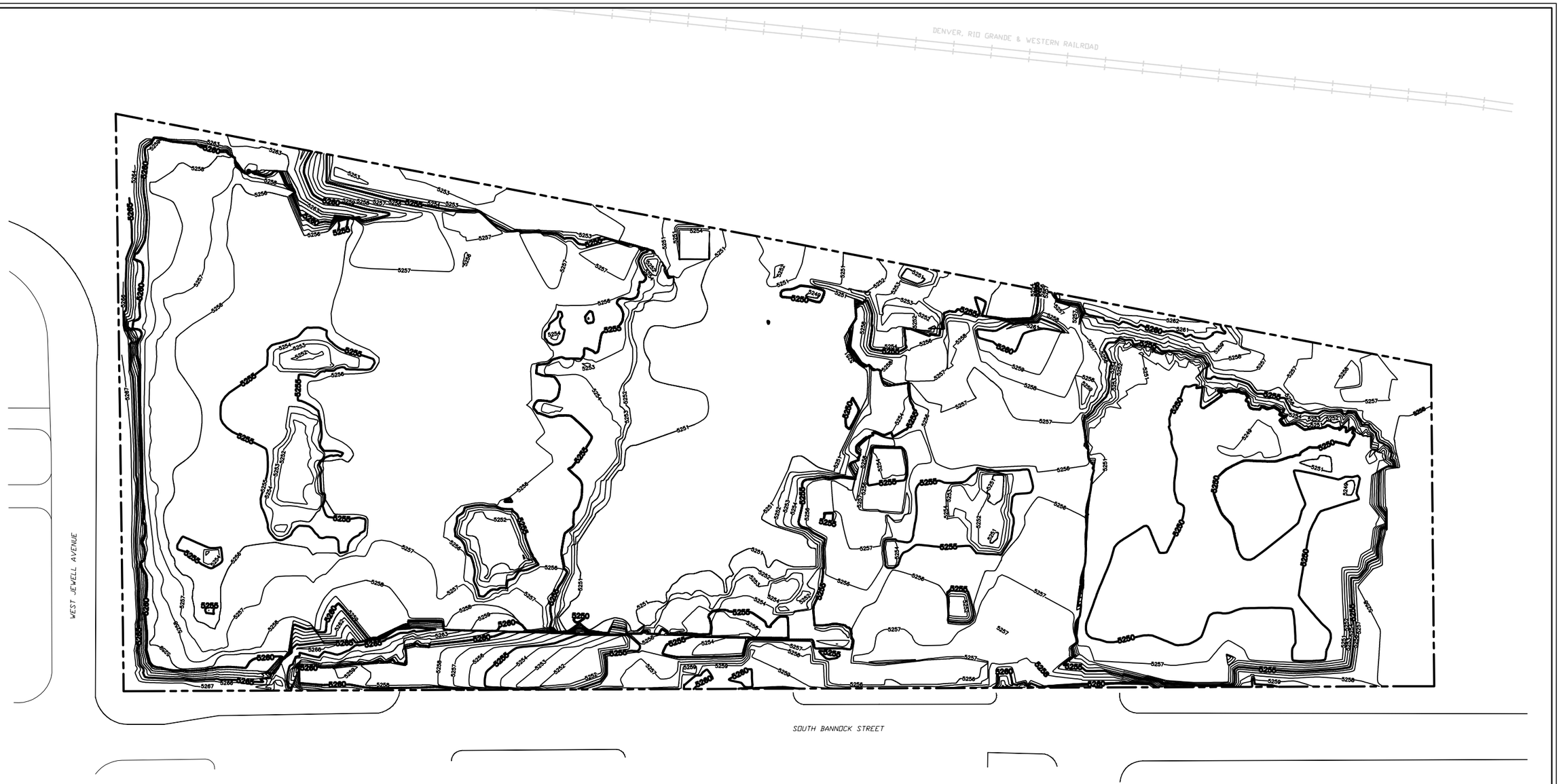
FIGURE NUMBER 2

SHATTUCK FACILITIES

Shaw™ Environmental, Inc.

PROJECT NO.	REV.	FILE NAME
840350.1100	A	40350B47A

THU, AUG 17, 2006 08:05 A MEC O:\SHATTUCK\840350\B-1100\REV-A\40350B47A.DWG



NOTE

1. EXCAVATION CONTOURS WERE SURVEYED IN SEVERAL DIFFERENT STAGES THROUGHOUT REMEDIATION ACTIVITIES. BACKFILL OPERATIONS WERE ALSO PERFORMED IN SEVERAL ITERATIONS THROUGHOUT THE PROJECT.

LEGEND

5270 EXCAVATED GRADE CONTOUR

PROPERTY BOUNDARY

N

0 15 30 60

SCALE: 1" = 30'

REVISION	DESCRIPTION	CHECKED	APPROVED	DATE
A	ISSUED TO ARMY	DEV	MEC	09/14/06

U.S. ARMY
CORPS OF ENGINEERS
OMAHA DISTRICT

SHATTUCK CHEMICAL SUPERFUND SITE

DRAWING NUMBER 3

EXCAVATED GRADE
SHATTUCK SITE

Shaw Environmental, Inc.

	BY	DATE		BY	DATE	PROJECT NO.	REV.	FILE NAME
DESIGNED	DEV	09/13/06	CHECKED	DEV	09/14/06	840350.1100	A	403503849A
DRAWN	MEC	09/13/06	APPROVED	GJP	09/14/06			

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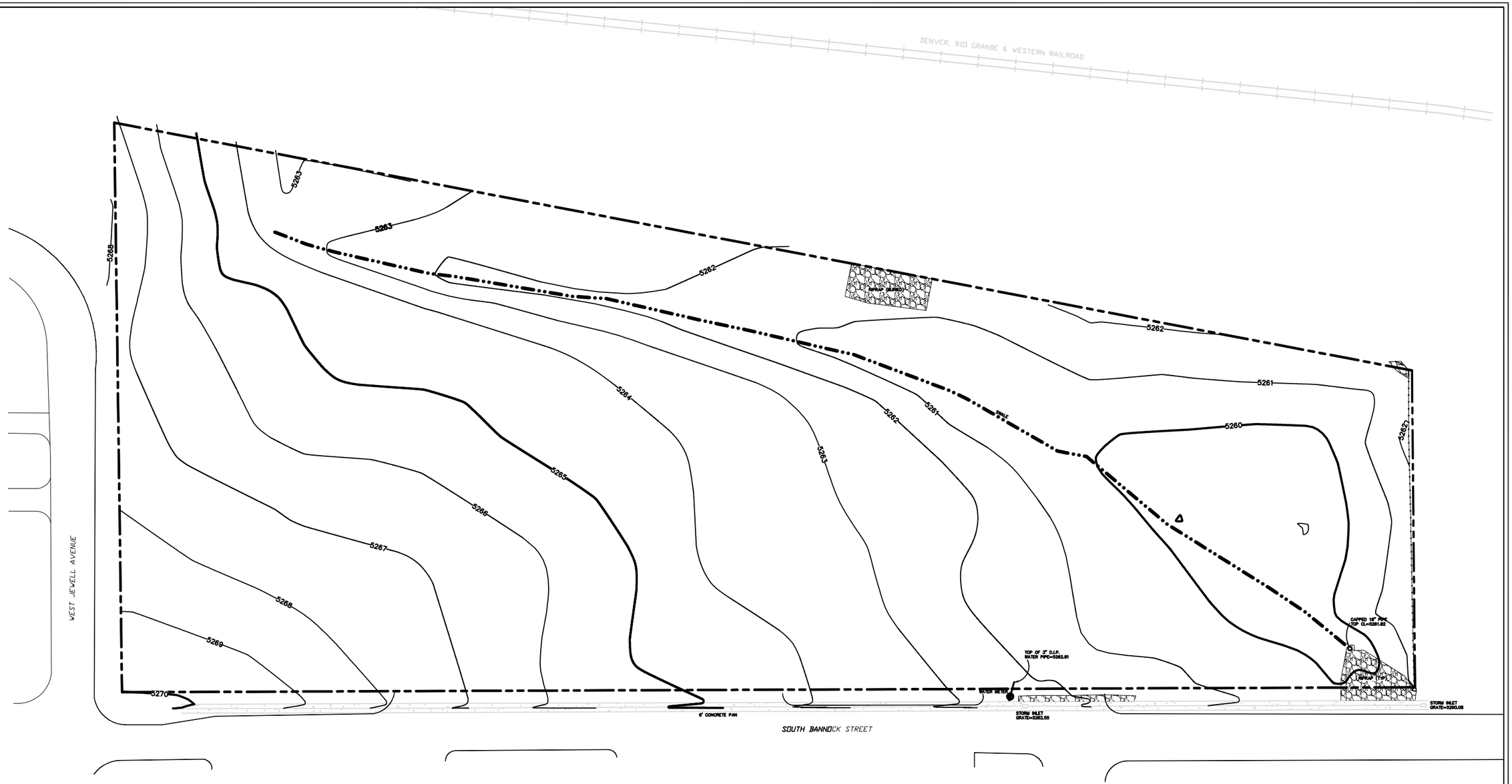

NOTE

1. FINAL GRADING FOR THE ENTIRE SITE WAS COMPLETED ON AUGUST 30, 2006. THE FINAL GRADE TOPOGRAPHY SURVEY WAS COMPLETED PRIOR TO COMPOST AND HYDROSEEDING ACTIVITIES.

LEGEND

5265 FINAL GRADE CONTOUR

PROPERTY BOUNDARY

SWALE

RIPRAP AREA

N

0 15 30 60

SCALE: 1" = 30'

REVISION	DESCRIPTION	CHECKED	APPROVED	DATE
A	ISSUED TO ARMY	DEV	MEC	09/14/06

U.S. ARMY
CORPS OF ENGINEERS
OMAHA DISTRICT

SHATTUCK CHEMICAL SUPERFUND SITE

DRAWING NUMBER 4

FINAL GRADE SHATTUCK SITE

Shaw Environmental, Inc.

	BY	DATE		BY	DATE	PROJECT NO.	REV.	FILE NAME
DESIGNED	DEV	09/11/06	CHECKED	DEV	09/14/06	840350.1100	A	40350B49A
DRAWN	MEC	09/11/06	APPROVED	GDP	09/14/06			

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APPENDIX A

APPENDIX A - FIELD WORK VARIANCE LOG

W21OMAHA TERC - CONTRACT
PROJECT NO. 840350 - Shattuck Chemical Superfund Site
CONTRACT NO. DACA 45-96-D-0007/T.O. 0031

FWV NO.	AFFECTED DOCUMENT	SUBJECT	DATE WRITTEN	DATE SUBMITTED	DATE APPROVED BY COR	REMARKS (provide justification)
FWV-001	RAMP, 4.3.4	Decon pad location	3/26/2003	5/1/2003	6/2/2003	DAC: move to outside (vs. inside) mining structure, north wall
FWV-002	RAMP, 5.3.1	Bar screen on hopper	3/4/2003	5/1/2003	6/2/2003	DEV: changed to VGF
FWV-003	RAMP, 5.5.1	Silt fence around perimeter	3/26/2003	5/1/2003	6/2/2003	DAC:
FWV-004	RAMP, 5.5.4	PM-10 located near personnel door in Mining Structure	4/23/2003	5/1/2003	6/2/2003	PAM: placed in general work area
FWV-005	RAMP, 5.4.2	Perimeter soils approach	IN PROGRESS		6/2/2003	Jim Langsted (in progress)
FWV-006	CQCP, 4.8	DQCR every day there is labor force present	5/2/2003	5/2/2003	6/2/2003	SDW: not if only guard
FWV-007	CQCP, 6.3	Red-line changes from original design	4/24/2003	5/1/2003	6/2/2003	LSD: changes noted on each submittal, not red-lined, due to design-build
FWV-008	CQCP, 5.1	Resumes for personnel	5/2/2003	5/2/2003	6/2/2003	SDW: Add new CHPs
FWV-009	CQCP, 7.3	Procurement review approval	5/2/2003	5/2/2003	6/2/2003	SDW: First CQCM, then PM
FWV-010	SHASP, 4.1, 8.1	Ammonia and CO monitoring	4/23/2003	5/1/2003	6/2/2003	PAM: Add to monitoring and table 8-1 for upgrade (TLV)
FWV-011	CRSADQAP, 2.2	Silt fence around perimeter of cover material stockpile footprint	3/26/2003	5/1/2003	6/2/2003	DAC: only if in place >90 days, then Mag Cl, etc., per CCOD permit
FWV-012	CRSAQDAP, 3.5	Change-out of respirator cartridges at end of each work shift	4/23/2003	5/1/2003	6/2/2003	PAM: at least weekly or at SHSO discretion
FWV-013	CRSADQAP, 3.7	Hard hats racked in EZ access area (not worn past control point)	4/23/2003	5/1/2003	6/2/2003	PAM: leave in Support Zone of site, not egress area (since radon not fugitive, gone in 24 hrs)
FWV-014	CRSADQAP, 4.1.1.5	Equipment rinsate sample collected if sample sent off-site for organic or inorganic analysis	5/1/2003	5/2/2003	6/2/2003	PNT: only if sent for organic analysis, not inorganic (i.e., metals)
FWV-015	CRSADQAP, 4.1.1.5	Soil samples: does not differentiate between QC requirements for T&D, U/P, FSS	5/1/2003	5/2/2003	6/2/2003	PNT: No rinsate required for T&D
FWV-016	CRSADQAP, 4.8.1	Personnel Dosimetry – collected monthly	5/1/2003	5/2/2003	6/2/2003	PNT: change to quarterly
FWV-017	SHASP, 3.7	Permanent washing facility in change trailer	3/26/2003	5/1/2003	6/2/2003	PAM/DAC: Change to in Comfort Station (and Mining Structure egress)
FWV-018	SHASP, 4.1.1	Chemical Hazards	4/23/2003	5/1/2003	6/2/2003	PAM: Add paragraph on ammonia
FWV-019	SHASP, 4.1.4	Chemical Hazards	4/23/2003	5/1/2003	6/2/2003	PAM: Add paragraph on CO
FWV-020	SHASP, 6.0	Post work areas (<5mrem/yr) as “Contamination Areas”	5/1/2003	5/2/2003	6/2/2003	PNT: Change to “Radioactive Materials Area”

APPENDIX A - FIELD WORK VARIANCE LOG

W21OMAHA TERC - CONTRACT
PROJECT NO. 840350 - Shattuck Chemical Superfund Site
CONTRACT NO. DACA 45-96-D-0007/T.O. 0031

FWV NO.	AFFECTED DOCUMENT	SUBJECT	DATE WRITTEN	DATE SUBMITTED	DATE APPROVED BY COR	REMARKS (provide justification)
FWV-021	SHASP, 7.3; CSAHP, 4.9.1	Equipment Decontamination	5/1/2003	5/2/2003	6/2/2003	PNT: Allow for dry decon
FWV-022	SHASP, 8.1.3	Daily calibration/zeroing	4/23/2003	5/1/2003	6/2/2003	PAM: Change to appropriate for each instrument
FWV-023	SHASP, 7.1	Personnel Decon (bring a HPT)	5/1/2003	5/2/2003	6/2/2003	PNT: Personnel can decon themselves and resurvey; call HPT if further problems
FWV-024	SHASP, 7.2	Suspected Contamination (have HPT check for rad)	5/1/2003	5/2/2003	6/2/2003	PNT: Personnel can check themselves and decon themselves initially; call HPT if further problems
FWV-025	CHASP, SHASP	Emergency Numbers	4/23/2003	5/1/2003	6/2/2003	DAC: Update Information services and Administrative personnel contact information
FWV-026	CSAHP, 4.4.3	Radon monitoring	5/1/2003	5/2/2003	6/2/2003	PNT: Change back to USEPA
FWV-027	CSAHP, 6.5.3, 6.5.4	Emergency Contacts	5/2/2003	5/2/2003	6/2/2003	SDW: clarify who contacts who (USEPA to contact CAG, not Shaw) and order of notification
FWV-028	CSAHP, 7.2.2	CIP	5/2/2003	5/2/2003	6/2/2003	SDW: Clarify USEPA's plan, not Shaw's
FWV-029	CRSADQAP, 2.2, 4.8.2	Perimeter Dosimeters				FWV WAS DELETED; SAMPLING WILL BE PERFORMED
FWV-030	CRSADQAP, 2.2	Wipe Sample analysis	5/1/2003	5/2/2003	6/2/2003	PNT: allow to be performed by RSO
FWV-031	CRSADQAP, 3.4, 5.4.6.2	Release survey – rail car	3/4/2003	5/1/2003	6/2/2003	PNT: modify per PNT 2/27 email
FWV-032	CRSADQAP, 4.1.2.3; MHTDP, 4.10	Archive sample retention	5/1/2003	5/2/2003	6/2/2003	PNT: Change to RSO discretion
FWV-033	CRSADQAP, 4.3.1.4	TSP isotopic analysis	5/1/2003	5/2/2003	6/2/2003	PNT: Change to off-site
FWV-034	CRSADQAP, 5.1	Field Logbooks	4/23/2003	5/1/2003	6/2/2003	DAC: Information contained in DCPR and separate logsheets (CQCM, SHSO and RSO keep logbooks)
FWV-035	RAMP, 4.3.5.3	Personnel in Conveyor Structure	4/23/2003	5/1/2003	6/2/2003	PAM: change requirements to account for daily check and checking for large material
FWV-036	SHASP, 3.10	AHAs updated as needed	8/88/03	8/18/2003	8/23/2003	PAM: Replace w/JSAs
FWV-037	CQCP, 13.5	Telecon w/off-site lab weekly	8/7/2003	8/18/2003	8/23/2003	PNT: Change to monthly
FWV-038	CRSADQAP, 4.1.2.6	Replicates collected in 3 aliquots	8/6/2003	8/18/2003	8/23/2003	PNT: Analyze same sample 3x
FWV-039	DQAP, 1.3.5	2 samples collected for FSS	8/17/2003	8/18/2003	8/23/2003	PNT: same sample screened on-site, sent off-site if clean
FWV-040	multiple	Activities cease if >15mg/m3	8/13/2003	8/18/2003	8/23/2003	PAM: Personnel in Level C, use eng. To lower dust levels for safety
FWV-041	RAMP, 5.2.3	Visual barrier before stockpiling cover material	8/12/2003	8/18/2003	8/23/2003	DAC: material can be differentiated visually
FWV-042	CSAHP, 4.4.2	Windsock	7/14/2003	8/18/2003	8/23/2003	RMY: One windsock sufficient

APPENDIX A - FIELD WORK VARIANCE LOG

W21OMAHA TERC - CONTRACT
PROJECT NO. 840350 - Shattuck Chemical Superfund Site
CONTRACT NO. DACA 45-96-D-0007/T.O. 0031

FWV NO.	AFFECTED DOCUMENT	SUBJECT	DATE WRITTEN	DATE SUBMITTED	DATE APPROVED BY COR	REMARKS (provide justification)
FWV-043	RAMP, 2.2.4,2.2.6 & 5.2.4, CQCP, 8, MHTDP, 1.0, 3.0, 4.0, 4.9, 5.2 & 5.2.1	Elimination of Transportation and Disposal Coordinator	8/25/2003	8/25/2003	8/23/2003	DPM: USACE has eliminated the position of Transportation and Disposal Coordinator
FWV-044	RAMP, 3.1	Site Specific Plans: Add Site Security Plan	9/25/2003	9/25/2003	Not Required	JG: Add Site Security Plan to Site-Specific Plans
FWV-045	RAMP 5.1; FSSP sect. 3; Field Procedure SHAT-003	Demonstration of Pre-verification sampling process versus MARSSIM based sampling results	12/19/2003	12/19/2003	1/2/2004	JG: Finalize FWV after discussions with USACE and EPA
FWV-046	SHASP	Site Health and Safety Plan Red Line Update	1/12/2004	1/12/2004	5/17/2004	Update of the Site Heath and Safety Plan
FWV-047	CSAHP, 4.5	Wind Socks	2/5/2004	2/5/2004	5/17/2004	RMY: One windsock sufficient
FWV-048	MHTDP, Appendix B	Daily Volume Measurements Form	9/20/2004	9/20/2004	9/27/2004	RMY: Line added for form preparer name
FWV-049	RAMP, CRSADQAP, FSSP	Modification of Underlying Soils and Pre-Verification	9/29/2004	10/27/2004	10/28/2004	GDP: Discolored sands encountered in Set Up # 5 require modification of Pre-verification sampling
FWV-050	RAMP, CRSADQAP, FSSP	SU 009 and 010 Slough Material	9/30/2004	10/27/2004	10/27/2004	GDP: Slough material accumulation in SU 009 & SU 010
FWV-051	SHASP	General Employee Training	11/16/2004	11/17/2004	12/1/2004	Clarification of training requirements of Class I and Class II Visitors
FWV-052	RAMP, CQCP, CSAHP, SHASP	Project Management Organization Chart	1/5/2005	1/5/2005	1/5/2005	RMY: Original Project Management Organization Chart out of date
FWV-053	RAMP, CRSADQAP, FSSP	Method dealing with the lack of FSS 96/97 data	2/15/2005	2/15/2005	4/22/2005	GDP: Recommendation that 21 borings will be placed in a triangular grid pattern as recommended by MARSSIM instead of the standard pre-verification method.
FWV-054	APP	Section 6.4.2.1	6/19/2005	6/20/2005	8/16/2005	DB: Sentence poorly written and is therefore confusing
FWV-055	CSAHP	Traffic Control Plan and Routes of Travel	10/17/2005	10/18/2005	10/20/2005	DC: Alternate truck routes for backfill operations and general site deliveries.

APPENDIX B

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
3/5/2003		427,120	213.56	213.56	1.0493	2	2	6,3	203.52	203.52
3/6/2003		813,800	406.90	620.46	1.0493	4	6	3,4	387.78	591.30
3/7/2003		0	0.00	620.46	0.0000	0	6		0.00	591.30
3/8/2003		0	0.00	620.46	1.0493	0	6		0.00	591.30
3/10/2003	M	1,038,690	519.35	1139.81	1.0493	5	11	4,6	494.94	1086.24
3/11/2003	T	938,750	469.38	1609.18	1.0317	5	16	4,5	454.95	1541.19
3/12/2003	W	795,710	397.86	2007.04	1.0573	4	20	5	376.30	1917.49
3/13/2003	R	1,189,510	594.76	2601.79	1.0532	6	26	5,7	564.71	2482.20
3/18/2003	T	434,034	217.02	2818.81	1.2178	2	28	7	178.20	2660.40
3/19/2003	W	0	0.00	2818.81	0.0000	0	28		0.00	2660.40
3/20/2003	R	0	0.00	2818.81	0.0000	0	28		0.00	2660.40
3/21/2003	F	0	0.00	2818.81	0.0000	0	28		0.00	2660.40
3/24/2003	M	0	0.00	2818.81	0.0000	0	28		0.00	2660.40
3/25/2003	T	0	0.00	2818.81	0.0000	0	28		0.00	2660.40
3/26/2003	W	-8,365	-4.18	2814.62	0.0000	0	28	See	0.00	2660.40
3/27/2003	R	-5,358	-2.68	2811.95	1.2178	0	28	Note	-2.20	2658.20
3/31/2003	M	836,400	418.20	3230.15	1.3362	4	32	7.8	312.98	2971.18
MARCH			**3230.15**		**1.0872**	**32**			**2971.19**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	

Note: Volume removed from manifests 27,28 based on expected weight after applying correction factor from U.S. Ecology, Railcar volume was recalculated on new density measurement

Note 2: Monolith demolition pilot study and contact clay removal prior to shipping accounts for 2500 cy initial balance

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
4/1/2003	T	838,600	419.30	3649.45	1.2892	4	36	8	325.25	3296.44
4/2/2003	W	1,040,600	520.30	4169.75	1.3037	5	41	9	399.09	3695.53
4/3/2003	R	1,042,800	521.40	4691.15	1.2571	5	46	9	414.78	4110.31
4/7/2003	M	0	0.00	4691.15	0.0000	0	46		0.00	4110.31
4/8/2003	T	208,200	104.10	4795.25	1.2531	1	47	10	83.08	4193.38
4/9/2003	W	1,060,610	530.31	5325.55	1.2531	5	52	10, 11	423.20	4616.58
4/10/2003	R	845,340	422.67	5748.22	1.3594	4	56	11, 12	310.92	4927.50
4/11/2003	F	847,800	423.90	6172.12	1.4005	4	60	12, 13	302.68	5230.18
4/14/2003	M	1,058,800	529.40	6701.52	1.3554	5	65	14, 15	390.58	5620.76
4/15/2003	T	1,058,300	529.15	7230.67	1.3520	5	70	14, 15	391.38	6012.15
4/16/2003	W	850,300	425.15	7655.82	1.3247	4	74	15, 16	320.93	6333.08
4/17/2003	R	862,540	431.27	8087.09	1.3112	4	78	16	328.92	6661.99
4/21/2003	M	1,074,400	537.20	8624.29	1.3207	5	83	17	406.77	7068.76
4/22/2003	T	1,078,500	539.25	9163.54	1.2904	5	88	18	417.90	7486.66
4/23/2003	W	1,079,000	539.50	9703.04	1.2983	5	93	19	415.55	7902.21
4/24/2003	R	862,900	431.45	10134.49	1.2836	4	97	20	336.12	8238.33
4/28/2003	M	647,200	323.60	10458.09	1.2652	3	100	21	255.77	8494.11
4/29/2003	T	1,078,600	539.30	10997.39	1.3379	5	105	22	403.09	8897.20
4/30/2003	W	1,078,200	539.10	11536.49	1.2857	5	110	23	419.31	9316.51
APRIL			**8306.35**		**1.3090**	**78**			**6345.33**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2383**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
5/1/2003	R	1,081,600	540.80	12077.29	1.3256	5	115	24	407.97	9724.48
5/5/2003	M	430,500	215.25	12292.54	1.3425	2	117	25	160.34	9884.82
5/6/2003	T	1,078,300	539.15	12831.69	1.2823	5	122	25,26	420.44	10305.26
5/7/2003	W	863,660	431.83	13263.52	1.3330	4	126	26	323.94	10629.20
5/8/2003	R	864,000	432.00	13695.52	1.3262	4	130	27	325.76	10954.96
5/12/2003	M	432,900	216.45	13911.97	1.2697	2	132	27,28	170.48	11125.43
5/13/2003	T	864,500	432.25	14344.22	1.2954	4	136	28	333.68	11459.11
5/14/2003	W	863,600	431.80	14776.02	1.3417	4	140	29	321.84	11780.95
5/15/2003	R	1,075,600	537.80	15313.82	1.3260	5	145	29, 30	405.57	12186.52
5/16/2003	F	860,000	430.00	15743.82	1.3097	4	149	30,31	328.31	12514.83
5/19/2003	M	429,900	214.95	15958.77	1.2647	2	151	31	169.97	12684.80
5/20/2003	T	861,320	430.66	16389.43	1.3129	4	155	31, 32	328.02	13012.82
5/21/2003	W	1,077,000	538.50	16927.93	1.3409	5	160	32,33	401.58	13414.40
5/22/2003	R	1,292,600	646.30	17574.23	1.4301	6	166	33, 35	451.93	13866.33
5/23/2003	F	646,800	323.40	17897.63	1.5264	3	169	35, 36	211.87	14078.20
5/26/2003	M		0.00		0.0000				0.00	14078.20
5/27/2003	T	1,077,000	538.50	18436.13	1.5264	5	174	36	352.79	14430.99
5/28/2003	W	1,293,300	646.65	19082.78	1.4420	6	180	37	448.45	14879.44
5/29/2003	R	646,300	323.15	19405.93	1.3831	3	183	38	233.64	15113.08
5/30/2003	F	1,077,500	538.75	19944.68	1.3941	5	188	38, 39	386.46	15499.53
MAY			**8408.19**		**1.3599**	**78**			**6183.02**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2868**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
6/2/2003	M	1,078,500	539.25	20483.93	1.4283	5	193	39, 40	377.55	15877.09
6/3/2003	T	1,079,100	539.55	21023.48	1.3409	5	198	40, 41	402.39	16279.48
6/4/2003	W	1,078,400	539.20	21562.68	1.4059	5	203	41,42	383.52	16663.00
6/5/2003	R	1,078,600	539.30	22101.98	1.4452	5	208	42	373.17	17036.18
6/9/2003	M	1,079,000	539.50	22641.48	1.3560	5	213	43	397.86	17434.04
6/10/2003	T	862,500	431.25	23072.73	1.3545	4	217	44	318.37	17752.41
6/11/2003	W	430,300	215.15	23287.88	1.4733	2	219	45	146.03	17898.45
JUNE			**3343.20**		**1.3936**	**31**			**2398.91**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.3011**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
7/30/2003	W	417,700	208.85	23496.73	1.2761	2	221	45	163.66	18062.11
7/31/2003	R	1,076,100	538.05	24034.78	1.2761	5	226	46	421.64	18483.75
JULY			**746.90**		**1.2761**	**7**			**585.30**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.3003**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
8/4/2003	M	1,087,300	543.65	24578.43	1.2380	5	231	47	439.13	18922.88
8/5/2003	T	655,300	327.65	24906.08	1.3118	3	234	48	249.78	19172.66
8/6/2003	W	866,900	433.45	25339.53	1.2406	4	238	49	349.40	19522.06
8/7/2003	R	1,076,600	538.30	25877.83	1.2690	5	243	50	424.21	19946.26
8/8/2003	F	0	0.00	25877.83	0.0000	0	243	50,51	0.00	19946.26
8/11/2003	M	1,065,500	532.75	26410.58	1.2511	5	248	51,52	425.81	20372.07
8/12/2003	T	1,070,900	535.45	26946.03	1.2062	5	253	52,53	443.93	20816.00
8/13/2003	W	1,083,000	541.50	27487.53	1.1614	5	258	53,54	466.27	21282.27
8/14/2003	R	1,088,000	544.00	28031.53	1.1254	5	263	54,55	483.39	21765.66
8/18/2003	M	1,087,000	543.50	28575.03	1.2125	5	268	55,56	448.26	22213.92
8/19/2003	T	1,086,100	543.05	29118.08	1.1690	5	273	56,57	464.56	22678.48
8/20/2003	W	1,080,900	540.45	29658.53	1.2322	5	278	58,59	438.61	23117.09
8/21/2003	R	1,088,100	544.05	30202.58	1.1423	5	283	60,61	476.30	23593.39
8/25/2003	M	1,088,200	544.10	30746.68	1.1836	5	288	62,63	459.70	24053.09
8/26/2003	T	1,091,400	545.70	31292.38	1.2354	5	293	65,66	441.72	24494.81
8/27/2003	W	1,090,800	545.40	31837.78	1.2161	5	298	67,68	448.48	24943.29
8/28/2003	R	1,090,900	545.45	32383.23	1.1600	5	303	69,70,71	470.22	25413.51
AUGUST			**8348.45**		**1.2047**	**77**			**6929.76**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2743**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
9/2/2003	T	1,092,700	546.35	32929.58	1.2266	5	308	72,73,74	445.42	25858.92
9/3/2003	W	1,092,400	546.20	33475.78	1.1960	5	313	74,75,76	456.69	26315.61
9/4/2003	R	1,091,300	545.65	34021.43	1.2239	5	318	77,78	445.83	26761.44
9/5/2003	F	1,094,900	547.45	34568.88	1.1808	5	323	79,80	463.63	27225.07
9/8/2003	M	1,096,400	548.20	35117.08	1.1794	5	328	81,82	464.81	27689.88
9/9/2003	T	1,088,900	544.45	35661.53	1.2783	5	333	83,84	425.92	28115.80
9/10/2003	W	873,800	436.90	36098.43	1.3362	4	337	85,86	326.97	28442.77
9/11/2003	Th	1,093,800	546.90	36645.33	1.3035	5	342	86,87	419.56	28862.33
9/15/2003	M	0	0.00	36645.33	0.0000	0	342	-	0.00	28862.33
9/16/2003	T	1,091,500	545.75	37191.08	1.2635	5	347	88	431.94	29294.27
9/17/2003	W	1,096,500	548.25	37739.33	1.3090	5	352	89	418.83	29713.10
9/18/2003	Th	1,094,100	547.05	38286.38	1.2453	5	357	90	439.29	30152.39
9/22/2003	M	1,090,400	545.20	38831.58	1.3594	5	362	91,92	401.06	30553.45
9/23/2003	T	878,200	439.10	39270.68	1.3088	4	366	92,93	335.50	30888.95
9/24/2003	W	872,400	436.20	39706.88	1.3164	4	370	94,95	331.36	31220.31
9/25/2003	Th	1,090,000	545.00	40251.88	1.4514	5	375	95,96	375.50	31595.81
9/29/2003	M	1,089,800	544.90	40796.78	1.2105	5	380	97,98	450.14	32045.95
9/30/2003	T	875,900	437.95	41234.73	1.3262	4	384	98,99	330.23	32376.18
SEPTEMBER			**8851.50**		**1.2713**	**81**			**6962.67**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2736**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
10/1/2003	W	657,300	328.65	41563.38	1.1661	3	387	100	281.84	32658.02
10/2/2003	Th	652,900	326.45	41889.83	1.1951	3	390	101	273.16	32931.17
10/6/2003	M	1,095,400	547.70	42437.53	1.2263	5	395	101,102	446.63	33377.80
10/7/2003	T	654,400	327.20	42764.73	1.2498	3	398	102	261.80	33639.60
10/8/2003	W	657,500	328.75	43093.48	1.2273	3	401	103	267.86	33907.47
10/9/2003	Th	218,800	109.40	43202.88	1.2364	1	402	103	88.48	33995.95
10/10/2003	F	0	0.00	43202.88	0.0000	0	402		0.00	33995.95
10/13/2003	M	1,094,300	547.15	43750.03	1.2366	5	407	104	442.46	34438.41
10/14/2003	T	1,095,600	547.80	44297.83	1.1851	5	412	105,106	462.24	34900.65
10/15/2003	W	1,308,200	654.10	44951.93	1.3192	6	418	107,108	495.83	35396.48
10/16/2003	Th	876,300	438.15	45390.08	1.3382	4	422	108	327.42	35723.90
10/17/2003	F	0	0.00	45390.08	0.0000	0	422		0.00	35723.90
10/20/2003	M	1,093,800	546.90	45936.98	1.2899	5	427	109	423.99	36147.89
10/21/2003	T	1,088,800	544.40	46481.38	1.3895	5	432	110,111	391.80	36539.68
10/22/2003	W	1,092,200	546.10	47027.48	1.3370	5	437	112	408.45	36948.14
10/25/2003	S	1,094,400	547.20	47574.68	1.3802	5	442	113	396.46	37344.60
10/27/2003	M	1,313,700	656.85	48231.53	1.3911	6	448	114,115	472.18	37816.78
10/28/2003	T	656,300	328.15	48559.68	1.4334	3	451	115	228.93	38045.71
10/29/2003	W	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
10/30/2003	Th	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
10/31/2003	F	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
OCTOBER			**7324.95**		**1.2920**	**67**			**5669.53**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2764**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
11/1/2003	S	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
11/3/2003	M	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
11/7/2003	F	0	0.00	48559.68	0.0000	0	451		0.00	38045.71
11/8/2003	S	869,700	434.85	48994.53	1.2648	4	455	118	343.81	38389.52
11/9/2003	S	0	0.00	48994.53	0.0000	0	455		0.00	38389.52
11/10/2003	M	1,092,900	546.45	49540.98	1.2452	5	460	118,119	438.85	38828.37
11/11/2003	T	1,309,100	654.55	50195.53	1.2187	6	466	119,120	537.09	39365.45
11/12/2003	W	1,310,500	655.25	50850.78	1.1902	6	472	121	550.54	39915.99
11/13/2003	Th	875,000	437.50	51288.28	1.1643	4	476	122	375.76	40291.75
11/17/2003	M	869,800	434.90	51723.18	1.1038	4	480	123,124	394.00	40685.76
11/18/2003	T	1,089,200	544.60	52267.78	1.1132	5	485	124	489.22	41174.98
11/19/2003	W	1,091,500	545.75	52813.53	1.0966	5	490	125	497.67	41672.65
11/20/2003	Th	867,900	433.95	53247.48	1.1219	4	494	126	386.80	42059.45
11/21/2003	F	435,300	217.65	53465.13	1.1205	2	496	127	194.24	42253.69
11/24/2003	M	653,400	326.70	53791.83	1.0877	3	499	127	300.36	42554.05
11/25/2003	T	1,089,200	544.60	54336.43	1.0855	5	504	128	501.70	43055.76
11/26/2003	W	651,100	325.55	54661.98	1.1026	3	507	129	295.26	43351.01
NOVEMBER			**6102.30**		**1.1502**	**56**			**5305.30**	
TOTALS			**Tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2609**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
12/1/2003	M	0	0.00	54661.98	0.0000	0	507		0.00	43351.01
12/2/2003	T	0	0.00	54661.98	0.0000	0	507		0.00	43351.01
12/3/2003	W	1,747,400	873.70	55535.68	1.1245	8	515	130,131	776.97	44127.98
12/4/2003	Th	1,747,700	873.85	56409.53	1.1328	8	523	132,133	771.41	44899.39
12/5/2003	F	870,900	435.45	56844.98	1.1681	4	527	133,134	372.78	45272.17
12/8/2003	M	1,089,700	544.85	57389.83	1.1163	5	532	134,135	488.09	45760.26
12/9/2003	T	1,088,600	544.30	57934.13	1.1629	5	537	135,136	468.05	46228.31
12/10/2003	W	1,083,300	541.65	58475.78	1.1232	5	542	136,137	482.24	46710.55
12/11/2003	Th	1,087,300	543.65	59019.43	1.1331	5	547	137,138	479.79	47190.34
12/12/2003	F	0	0.00	59019.43	0.0000	0	547		0.00	47190.34
12/16/2003	T	0	0.00	59019.43	0.0000	0	547		0.00	47190.34
12/17/2003	W	1,304,600	652.30	59671.73	1.1501	6	553	138,139	567.17	47757.51
12/18/2003	Th	1,526,200	763.10	60434.83	1.1112	7	560	139,140-1	686.74	48444.24
12/19/2003	F	1,303,800	651.90	61086.73	1.1550	6	566	141,142	564.42	49008.66
12/22/2003	M	1,307,700	653.85	61740.58	1.1010	6	572	142,143	593.87	49602.53
12/23/2003	T	1,088,700	544.35	62284.93	1.2701	5	577	143,144	428.59	50031.12
12/24/2003	W	0	0.00	62284.93	0.0000	0	577	-	0.00	50031.12
12/29/2003	M	1,307,100	653.55	62938.48	1.0995	6	583	144,145	594.41	50625.52
12/30/2003	T	1,089,000	544.50	63482.98	1.1824	5	588	146	460.50	51086.03
12/31/2003	W	1,309,900	654.95	64137.93	1.1816	6	594	147, 148	554.29	51640.32
DECEMBER			**9475.95**		**1.1432**	**87**			**8289.31**	
TOTALS			**Tons**		**Ave Density**	**Cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2420**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
1/2/2004	F	1,091,100	545.55	64683.48	1.2019	5	599	148,149	453.91	52094.23
1/5/2004	M	1,309,100	654.55	65338.03	1.1630	6	605	149,150	562.81	52657.04
1/6/2004	T	1,093,800	546.90	65884.93	1.1688	5	610	150,151	467.92	53124.95
1/7/2004	W	1,087,800	543.90	66428.83	1.1640	5	615	151, 152	467.27	53592.22
1/8/2004	Th	870,400	435.20	66864.03	1.1689	4	619	152,153	372.32	53964.54
1/12/2004	M	872,500	436.25	67300.28	1.1525	4	623	153	378.52	54343.06
1/13/2004	T	0	0.00	67300.28	0.0000	0	623	-	0.00	54343.06
1/14/2004	W	0	0.00	67300.28	0.0000	0	623	-	0.00	54343.06
1/15/2004	Th	0	0.00	67300.28	0.0000	0	623	-	0.00	54343.06
1/19/2004	M	1,096,500	548.25	67848.53	1.3706	5	628	154,155	400.01	54743.07
1/20/2004	T	1,314,800	657.40	68505.93	1.3059	6	634	155,156	503.41	55246.48
1/21/2004	W	1,318,100	659.05	69164.98	1.3191	6	640	156,157	499.62	55746.10
1/22/2004	Th	1,092,800	546.40	69711.38	1.2469	5	645	158	438.21	56184.30
1/23/2004	F	0	0.00	69711.38	0.0000	0	645	-	0.00	56184.30
1/26/2004	M	1,094,600	547.30	70258.68	1.2233	5	650	159	447.40	56631.70
1/27/2004	T	1,309,600	654.80	70913.48	1.3251	6	656	160,161	494.15	57125.85
1/28/2004	W	1,089,400	544.70	71458.18	1.3509	5	661	161,162	403.21	57529.06
1/29/2004	Th	1,092,800	546.40	72004.58	1.1900	5	666	163	459.16	57988.22
1/30/2004	F	0		72004.58	0.0000	0	666		0.00	57988.22
JANUARY			**7866.65**		**1.2393**	**72**			**6347.91**	
TOTALS		**lbs**	**tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2417**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
2/2/2004	M	219,600	109.80	72114.38	1.3204	1	667	163	83.16	58071.38
2/3/2004	T	1,305,700	652.85	72767.23	1.3917	6	673	163,164	469.10	58540.48
2/4/2004	W	1,091,200	545.60	73312.83	1.2248	5	678	165	445.46	58985.94
2/5/2004	Th	1,090,400	545.20	73858.03	1.2635	5	683	166	431.50	59417.44
2/6/2004	F	659,800	329.90	74187.93	1.2069	3	686	167	273.34	59690.79
2/9/2004	M	875,400	437.70	74625.63	1.2089	4	690	167,168	362.06	60052.85
2/10/2004	T	873,900	436.95	75062.58	1.2384	4	694	168,169	352.83	60405.69
2/11/2004	W	875,200	437.60	75500.18	1.4110	4	698	169,170	310.13	60715.82
2/12/2004	Th	438,200	219.10	75719.28	1.3298	2	700	171	164.76	60880.58
2/13/2004	F	0	0.00	75719.28	0.0000	0	700		0.00	60880.58
2/16/2004	M	651,600	325.80	76045.08	1.3840	3	703	172	235.40	61115.99
FEBRUARY			**4040.50**		**1.2918**	**37**			**3127.76**	
TOTALS			**tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2443**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
3/1/2004	M	0	0.00	76045.08	0.0000	0	703		0.00	61115.99
3/2/2004	T	870,800	435.40	76480.48	1.4147	4	707	175	307.77	61423.76
3/3/2004	W	1,527,900	763.95	77244.43	1.3919	7	714	175,176	548.85	61972.61
3/4/2004	Th	1,529,300	764.65	78009.08	1.2650	7	721	177,178	604.47	62577.08
3/5/2004	F	436,500	218.25	78227.33	1.2035	2	723	178	181.35	62758.42
3/8/2004	M	0	0.00	78227.33	0.0000	0	723		0.00	62758.42
3/9/2004	T	874,300	437.15	78664.48	1.2385	4	727	178,179	352.97	63111.39
3/10/2004	W	1,314,200	657.10	79321.58	1.2165	6	733	179,180	540.16	63651.55
3/11/2004	Th	1,097,300	548.65	79870.23	1.2745	5	738	180,181	430.48	64082.03
3/12/2004	F	1,093,100	546.55	80416.78	1.3847	5	743	181,182	394.71	64476.74
3/13/2004	S	0	0.00	80416.78	0.0000	0	743		0.00	64476.74
3/15/2004	M	434,100	217.05	80633.83	1.2386	2	745	182,183	175.24	64651.97
3/16/2004	T	1,095,800	547.90	81181.73	1.1474	5	750	183,184	477.51	65129.49
3/17/2004	W	1,314,500	657.25	81838.98	1.1108	6	756	184,185	591.69	65721.18
3/18/2004	Th	1,533,900	766.95	82605.93	1.1766	7	763	185,186	651.84	66373.02
3/22/2004	M	1,320,600	660.30	83266.23	1.1119	6	769	186,187	593.85	66966.86
3/23/2004	T	1,100,500	550.25	83816.48	1.3066	5	774	188	421.13	67387.99
3/24/2004	W	1,309,000	654.50	84470.98	1.2860	6	780	189,190	508.94	67896.94
3/25/2004	Th	1,095,100	547.55	85018.53	1.2311	5	785	190,191	444.76	68341.70
3/29/2004	M	1,309,900	654.95	85673.48	1.1640	6	791	191,192	562.67	68904.37
3/30/2004	T	1,093,400	546.70	86220.18	1.1381	5	796	192,193	480.36	69384.74
3/31/2004	W	1,313,700	656.85	86877.03	1.1604	6	802	193,194	566.05	69950.79
March			**10831.95**		**1.2261**	**99**			**8834.80**	
TOTALS			**tons**		**Ave Density**	**cars**			**cy**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2420**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
4/1/2004	Th	1,096,400	548.20	87425.23	1.3061	5	807	194,195	419.72	70370.51
4/5/2004	M	1,094,400	547.20	87972.43	1.1265	5	812	195,196	485.75	70856.27
4/6/2004	T	1,098,000	549.00	88521.43	1.2011	5	817	196,197	457.08	71313.35
4/7/2004	W	1,093,900	546.95	89068.38	1.1140	5	822	197,198	490.98	71804.33
4/8/2004	Th	1,095,900	547.95	89616.33	1.1692	5	827	198,199	468.65	72272.98
4/13/2004	T	1,097,600	548.80	90165.13	1.1715	5	832	199,200	468.46	72741.44
4/14/2004	W	651,200	325.60	90490.73	1.2314	3	835	200,201	264.41	73005.85
4/19/2004	M	1,095,300	547.65	91038.38	1.1831	5	840	201,202	462.89	73468.75
4/20/2004	T	1,315,100	657.55	91695.93	1.1885	6	846	202,204	553.26	74022.01
4/21/2004	W	1,311,400	655.70	92351.63	1.1671	6	852	204,205	561.82	74583.83
4/22/2004	Th	1,096,000	548.00	92899.63	1.3200	5	857	205,206	415.15	74998.98
4/26/2004	M	1,312,700	656.35	93555.98	1.3010	6	863	206,207	504.50	75503.48
4/27/2004	T	1,094,700	547.35	94103.33	1.2731	5	868	207,208	429.93	75933.41
4/28/2004	W	1,535,600	767.80	94871.13	1.3214	7	875	208,209	581.05	76514.46
4/29/2004	Th	879,200	439.60	95310.73	1.3071	4	879	210	336.32	76850.78
APRIL			**8433.70**		**1.2223**	**77**			**6899.99**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2402**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
5/3/2004	M	877,500	438.75	95749.48	1.3163	4	883	211	333.32	77184.10
5/4/2004	T	1,317,100	658.55	96408.03	1.2178	6	889	211,212	540.77	77724.87
5/5/2004	W	1,095,100	547.55	96955.58	1.5574	5	894	213	351.58	78076.45
5/6/2004	Th	1,095,100	547.55	97503.13	1.3508	5	899	214	405.35	78481.80
5/10/2004	M	1,095,200	547.60	98050.73	1.2101	5	904	215	452.52	78934.32
5/11/2004	T	1,094,200	547.10	98597.83	1.2568	5	909	216	435.31	79369.64
5/12/2004	W	1,090,700	545.35	99143.18	1.2724	5	914	217	428.60	79798.24
5/13/2004	Th	435,500	217.75	99360.93	1.3283	2	916	218	163.93	79962.17
5/14/2004	F	439,400	219.70	99580.63	1.3351	2	918	218	164.56	80126.72
5/17/2004	M	657,400	328.70	99909.33	1.3744	3	921	218,219	239.16	80365.88
5/18/2004	T	220,600	110.30	100019.63	1.4240	1	922	219	77.46	80443.34
5/19/2004	W	219,100	109.55	100129.18	1.3015	1	923	219	84.17	80527.51
MAY			**4818.45**		**1.3105**	**44**			**3676.74**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2434**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
6/1/2004	T	658,600	329.30	100458.48	1.2809	3	926	220	257.08	80784.60
6/2/2004	W	1,313,500	656.75	101115.23	1.1799	6	932	220,221	556.61	81341.21
6/3/2004	Th	1,316,600	658.30	101773.53	1.2384	6	938	221,222	531.57	81872.79
6/4/2004	F	1,096,400	548.20	102321.73	1.3338	5	943	223	411.01	82283.79
6/7/2004	M	1,094,500	547.25	102868.98	1.1843	5	948	224	462.09	82745.88
6/8/2004	T	1,093,800	546.90	103415.88	1.2016	5	953	225	455.14	83201.02
6/9/2004	W	1,095,500	547.75	103963.63	1.2494	5	958	226	438.41	83639.43
6/10/2004	Th	875,000	437.50	104401.13	1.2813	4	962	227	341.45	83980.88
6/14/2003	M	1,091,600	545.80	104946.93	1.2455	5	967	227,228	438.22	84419.10
6/15/2004	T	1,092,300	546.15	105493.08	1.1554	5	972	228,229	472.69	84891.79
6/16/2004	W	1,092,800	546.40	106039.48	1.2160	5	977	229,230	449.34	85341.14
6/17/2004	Th	1,314,700	657.35	106696.83	1.2316	6	983	230,231	533.74	85874.87
6/21/2004	M	1,312,800	656.40	107353.23	1.1774	6	989	232,233	557.50	86432.37
6/22/2004	T	1,088,700	544.35	107897.58	1.1644	5	994	233, 234	467.49	86899.87
6/23/2004	W	1,314,500	657.25	108554.83	1.2516	6	1000	234, 235	525.13	87424.99
6/24/2004	Th	1,096,100	548.05	109102.88	1.1498	5	1005	235, 236	476.65	87901.64
6/28/2004	M	1,097,200	548.60	109651.48	1.1628	5	1010	236, 237	471.79	88373.43
6/29/2004	T	1,097,000	548.50	110199.98	1.1615	5	1015	237, 238	472.23	88845.67
6/30/2004	W	1,097,400	548.70	110748.68	1.1746	5	1020	238, 239	467.14	89312.81
JUNE			**10619.50**		**1.2088**	**97**			**8785.29**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2400**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
7/1/2004	Th	1,101,200	550.60	111299.28	1.2207	5	1025	239, 240	451.05	89763.86
7/6/2004	T	1,315,800	657.90	111957.18	1.2544	6	1031	240, 241	524.47	90288.33
7/7/2004	W	1,097,100	548.55	112505.73	1.1759	5	1036	241, 242	466.49	90754.83
7/8/2004	Th	1,312,800	656.40	113162.13	1.1611	6	1042	242 243	565.33	91320.15
7/9/2004	F	657,700	328.85	113490.98	1.1211	3	1045	243 244	293.33	91613.48
7/12/2004	M	1,098,200	549.10	114040.08	1.1942	5	1050	244 245	459.81	92073.29
7/13/2004	T	1,099,100	549.55	114589.63	1.1828	5	1055	245, 246	464.62	92537.90
7/14/2004	W	1,317,400	658.70	115248.33	1.1952	6	1061	246, 247	551.12	93089.03
7/15/2004	Th	873,800	436.90	115685.23	1.2159	4	1065	247, 248	359.32	93448.35
7/19/2004	M	1,090,200	545.10	116230.33	1.2003	5	1070	248, 249	454.14	93902.48
7/20/2004	T	1,100,100	550.05	116780.38	1.3322	5	1075	249, 250	412.89	94315.37
7/21/2004	W	1,091,600	545.80	117326.18	1.2515	5	1080	250, 251	436.12	94751.49
7/22/2004	Th	1,089,200	544.60	117870.78	1.3387	5	1085	251, 252	406.81	95158.30
7/26/2004	M	1,098,200	549.10	118419.88	1.3107	5	1090	252, 253	418.94	95577.24
7/27/2004	T	1,097,400	548.70	118968.58	1.2698	5	1095	253, 254	432.12	96009.35
7/28/2004	W	1,094,200	547.10	119515.68	1.2747	5	1100	254, 255	429.20	96438.55
7/29/2004	Th	1,310,500	655.25	120170.93	1.2571	6	1106	255, 256	521.24	96959.79
JULY			**9422.25**		**1.2322**	**86**			**7646.99**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2394**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
8/2/2004	M	984,800	492.40	120663.33	1.1725	5	1111	256, 257	419.96	97379.75
8/3/2004	T	1,029,800	514.90	121178.23	1.2340	5	1116	257, 258	417.26	97797.01
8/4/2004	W	1,005,100	502.55	121680.78	1.3550	5	1121	258, 259	370.89	98167.90
8/5/2004	Th	984,600	492.30	122173.08	1.4470	5	1126	259, 260	340.22	98508.12
8/9/2004	M	658,800	329.40	122502.48	1.4076	3	1129	260, 261	234.02	98742.13
8/11/2004	W	612,500	306.25	122808.73	1.3850	3	1132	261	221.12	98963.25
8/16/2004	M	436,100	218.05	123026.78	1.2804	2	1134	262	170.30	99133.55
8/17/2004	T	656,400	328.20	123354.98	1.2867	3	1137	262	255.07	99388.62
8/19/2004	TH	440,800	220.40	123575.38	1.2439	2	1139	263	177.18	99565.81
8/20/2004	F	874,100	437.05	124012.43	1.3304	4	1143	SC5-013	328.51	99894.32
8/21/2004	S	439,700	219.85	124232.28	1.3492	2	1145	264	162.95	100057.26
8/23/2004	M	877,000	438.50	124670.78	1.5382	4	1149	265	285.07	100342.34
8/24/2004	T	1,509,200	754.60	125425.38	1.3440	7	1156	265, 266	561.46	100903.80
8/25/2004	W	1,754,600	877.30	126302.68	1.6036	8	1164	267, 268	547.08	101450.88
AUGUST			**6131.75**		**1.3653**	**58**			**4491.09**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2450**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
9/7/2004	T	659,500	329.75	126632.43	1.2433	3	1167	269	265.22	101716.10
9/8/2004	W	1,530,000	765.00	127397.43	1.3444	7	1174	269, 270	569.03	102285.13
9/9/2004	Th	873,100	436.55	127833.98	1.2675	4	1178	271	344.42	102629.54
9/10/2004	F	1,095,500	547.75	128381.73	1.1269	5	1183	271, 272	486.07	103115.61
9/13/2004	M	1,093,600	546.80	128928.53	1.1701	5	1188	272, 273	467.31	103582.92
9/14/2004	T	1,096,700	548.35	129476.88	1.1562	5	1193	273, 274	474.27	104057.19
9/15/2004	W	1,095,900	547.95	130024.83	1.1289	5	1198	274, 275	485.38	104542.58
9/16/2004	Th	1,093,600	546.80	130571.63	1.2301	5	1203	275, 276	444.52	104987.09
9/20/2004	M	880,600	440.30	131011.93	1.2282	4	1207	276, 277	358.49	105345.59
9/21/2004	T	1,097,100	548.55	131560.48	1.1623	5	1212	277, 278	471.95	105817.54
9/22/2004	W	1,317,600	658.80	132219.28	1.1165	6	1218	278, 279	590.06	106407.60
9/23/2004	Th	1,095,300	547.65	132766.93	1.1604	5	1223	279, 280	471.95	106879.55
9/27/2004	M	1,098,000	549.00	133315.93	1.0976	5	1228	280, 281	500.18	107379.73
9/28/2004	T	1,093,700	546.85	133862.78	1.1755	5	1233	281, 282	465.21	107844.93
9/29/2004	W	1,097,500	548.75	134411.53	1.1787	5	1238	282, 283	465.56	108310.49
9/30/2004	Th	1,092,900	546.45	134957.98	1.1684	5	1243	283, 284	467.69	108778.18
SEPTEMBER			**8655.30**		**1.1812**	**79**			**7327.30**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2407**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
10/4/2004	M	1,099,000	549.50	135507.48	1.2072	5	1248	284, 285	455.19	109233.37
10/5/2004	T	1,307,100	653.55	136161.03	1.1364	6	1254	285, 286	575.11	109808.47
10/6/2004	W	1,088,400	544.20	136705.23	1.1849	5	1259	287	459.28	110267.75
10/7/2004	Th	1,093,500	546.75	137251.98	1.2295	5	1264	288	444.69	110712.44
10/11/2004	M	1,091,800	545.90	137797.88	1.2305	5	1269	289	443.64	111156.08
10/12/2004	T	1,096,800	548.40	138346.28	1.1785	5	1274	290	465.34	111621.42
10/13/2004	W	876,300	438.15	138784.43	1.2391	4	1278	291	353.60	111975.02
10/14/2004	Th	1,314,400	657.20	139441.63	1.2364	6	1284	291, 292	531.54	112506.57
10/18/2004	M	657,300	328.65	139770.28	1.2011	3	1287	293	273.62	112780.19
10/19/2004	T	1,310,900	655.45	140425.73	1.2329	6	1293	293, 294	531.63	113311.82
10/20/2004	W	1,315,100	657.55	141083.28	1.2277	6	1299	294, 295	535.60	113847.42
10/21/2004	Th	1,094,700	547.35	141630.63	1.1615	5	1304	296	471.24	114318.66
10/25/2004	M	1,099,900	549.95	142180.58	1.1540	5	1309	297	476.56	114795.22
10/26/2004	T	875,000	437.50	142618.08	1.2372	4	1313	298	353.62	115148.84
10/27/2004	W	1,318,300	659.15	143277.23	1.3115	6	1319	298, 299	502.59	115651.44
10/28/2004	Th	1,095,400	547.70	143824.93	1.1819	5	1324	300	463.41	116114.84
OCTOBER			**8866.95**		**1.2086**	**81**			**7336.66**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2386**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
11/2/2004	T	440,000	220.00	144044.93	1.2261	2	1326	301	179.43	116294.27
11/3/2004	W	1,537,000	768.50	144813.43	1.2827	7	1333	301, 302	599.13	116893.40
11/4/2004	Th	1,315,700	657.85	145471.28	1.2381	6	1339	302, 303	531.34	117424.74
11/5/2004	F	1,095,900	547.95	146019.23	1.2549	5	1344	304	436.65	117861.39
11/8/2004	M	1,094,000	547.00	146566.23	1.2741	5	1349	305	429.32	118290.71
11/9/2004	T	1,098,900	549.45	147115.68	1.4370	5	1354	306	382.36	118673.07
11/10/2009	W	1,314,400	657.20	147772.88	1.3286	6	1360	307, 308	494.66	119167.73
11/11/2004	Th	657,700	328.85	148101.73	1.4971	3	1363	308	219.66	119387.38
11/15/2004	M	217,000	108.50	148210.23	1.4971	1	1364	308	72.47	119459.86
11/16/2004	T	655,500	327.75	148537.98	1.3969	3	1367	309	234.63	119694.48
11/17/2004	W	1,093,500	546.75	149084.73	1.4281	5	1372	310	382.85	120077.33
11/18/2004	Th	1,095,200	547.60	149632.33	1.3736	5	1377	311	398.66	120476.00
11/19/2004	F	1,091,200	545.60	150177.93	1.4347	5	1382	312	380.29	120856.28
11/22/2004	M	1,094,600	547.30	150725.23	1.2118	5	1387	313	451.64	121307.93
11/23/2004	T	1,315,100	657.55	151382.78	1.3873	6	1393	314, 315	473.98	121781.90
11/29/2004	M	1,314,900	657.45	152040.23	1.4104	6	1399	316,317	466.14	122248.05
11/30/2004	T	1,093,600	546.80	152587.03	1.3351	5	1404	317,318	409.56	122657.61
NOVEMBER			**8762.10**		**1.3392**	**80**			**6542.76**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2440**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
12/13/2004	M	875,600	437.80	153024.83	1.2977	4	1408	318,319	337.37	122994.97
12/14/2004	T	1,309,300	654.65	153679.48	1.2114	6	1414	319,320	540.41	123535.38
12/15/2004	W	1,536,800	768.40	154447.88	1.2524	7	1421	321,322	613.54	124148.92
12/16/2004	Th	659,700	329.85	154777.73	1.1586	3	1424	322	284.70	124433.62
12/20/2004	M	1,098,500	549.25	155326.98	1.1433	5	1429	323	480.41	124914.03
12/21/2004	T	1,092,600	546.30	155873.28	1.2215	5	1434	324	447.24	125361.26
12/22/2004	W	1,094,500	547.25	156420.53	1.1174	5	1439	325	489.75	125851.02
12/23/2004	Th	1,095,400	547.70	156968.23	1.1461	5	1444	326	477.88	126328.90
12/27/2004	M	1,096,700	548.35	157516.58	1.1276	5	1449	327	486.30	126815.20
12/28/2004	T	1,095,100	547.55	158064.13	1.1702	5	1454	328	467.91	127283.11
12/29/2004	W	1,096,600	548.30	158612.43	1.1175	5	1459	329	490.65	127773.76
12/30/2004	Th	1,093,100	546.55	159158.98	1.1654	5	1464	330	468.98	128242.74
DECEMBER			**6571.95**		**1.1767**	**60**			**5585.13**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2411**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
1/3/2005	M	1,095,500	547.75	159706.73	1.1481	5	1469	331	477.09	128719.83
1/4/2005	T	1,095,300	547.65	160254.38	1.1930	5	1474	332	459.05	129178.88
1/5/2005	W	1,094,100	547.05	160801.43	1.1225	5	1479	333	487.35	129666.23
1/6/2005	Th	1,095,400	547.70	161349.13	1.1325	5	1484	334	483.62	130149.85
1/10/2005	M	1,094,700	547.35	161896.48	1.1354	5	1489	335	482.08	130631.93
1/11/2005	T	1,094,300	547.15	162443.63	1.1310	5	1494	336	483.78	131115.70
1/12/2005	W	1,092,200	546.10	162989.73	1.1372	5	1499	337	480.21	131595.92
1/13/2005	Th	1,093,500	546.75	163536.48	1.1976	5	1504	338	456.54	132052.46
1/17/2005	M	660,700	330.35	163866.83	1.1512	3	1507	339	286.96	132339.42
1/18/2005	T	1,098,500	549.25	164416.08	1.1156	5	1512	339, 340	492.34	132831.75
1/19/2005	W	1,092,800	546.40	164962.48	1.3272	5	1517	341	411.69	133243.45
1/20/2005	Th	438,600	219.30	165181.78	1.3958	2	1519	342	157.11	133400.56
1/26/2005	W	1,096,600	548.30	165730.08	1.2077	5	1524	343	454.00	133854.57
1/27/2005	Th	1,090,300	545.15	166275.23	1.1539	5	1529	344	472.44	134327.01
1/28/2005	F	1,094,300	547.15	166822.38	1.2341	5	1534	345	443.36	134770.37
1/31/2005	M	1,098,600	549.30	167371.68	1.2706	5	1539	346	432.32	135202.68
JANUARY			**8212.70**		**1.1800**	**75**			**6959.95**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2379**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
2/1/2005	T	1,094,800	547.40	167919.08	1.2718	5	1544	347	430.41	135633.10
2/2/2005	W	1,095,400	547.70	168466.78	1.2504	5	1549	348	438.02	136071.12
2/3/2005	Th	1,094,800	547.40	169014.18	1.2250	5	1554	349	446.86	136517.97
2/7/2005	M	1,094,800	547.40	169561.58	1.2515	5	1559	350	437.40	136955.37
2/8/2005	T	874,600	437.30	169998.88	1.3064	4	1563	351	334.74	137290.11
2/10/2005	Th	436,300	218.15	170217.03	1.3075	2	1565	353	166.85	137456.95
2/15/2005	T	438,200	219.10	170436.13	1.3635	2	1567	354	160.69	137617.64
2/16/2005	W	1,095,800	547.90	170984.03	1.3241	5	1572	354,355	413.79	138031.43
2/17/2005	Th	438,200	219.10	171203.13	1.4132	2	1574	356	155.04	138186.47
2/18/2005	F	876,600	438.30	171641.43	1.6159	4	1578	357	271.24	138457.71
2/21/2005	M	879,600	439.80	172081.23	1.3498	4	1582	358	325.83	138783.54
2/22/2005	T	1,095,100	547.55	172628.78	1.3574	5	1587	359	403.38	139186.92
2/23/2005	W	1,095,200	547.60	173176.38	1.5027	5	1592	360	364.41	139551.33
2/24/2005	Th	872,500	436.25	173612.63	1.5069	4	1596	361	289.50	139840.83
FEBRUARY			**6240.95**		**1.3456**	**57**			**4638.15**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2415**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
3/8/2005	T	1,093,000	546.50	174159.13	1.3428	5	1601	362	406.99	140247.82
3/9/2005	W	1,091,600	545.80	174704.93	1.2434	5	1606	363	438.96	140686.77
3/10/2005	Th	1,094,400	547.20	175252.13	1.3015	5	1611	364	420.44	141107.21
3/11/2005	F	1,094,400	547.20	175799.33	1.1813	5	1616	365	463.22	141570.43
3/14/2005	M	1,099,900	549.95	176349.28	1.1652	5	1621	366	471.98	142042.41
3/15/2005	T	1,097,000	548.50	176897.78	1.1507	5	1626	367	476.67	142519.08
3/16/2005	W	1,095,700	547.85	177445.63	1.2060	5	1631	368	454.27	142973.35
3/17/2005	Th	1,092,000	546.00	177991.63	1.1394	5	1636	369	479.20	143452.55
3/21/2005	M	1,095,800	547.90	178539.53	1.1638	5	1641	370	470.79	143923.33
3/22/2005	T	1,094,200	547.10	179086.63	1.2339	5	1646	371	443.39	144366.72
3/23/2005	W	1,093,800	546.90	179633.53	1.1856	5	1651	372	461.29	144828.01
3/24/2005	Th	1,085,300	542.65	180176.18	1.2214	5	1656	373	444.29	145272.29
3/28/2005	M	1,092,000	546.00	180722.18	1.1323	5	1661	374	482.20	145754.50
3/29/2005	T	1,087,600	543.80	181265.98	1.1445	5	1666	375	475.14	146229.64
3/30/2005	W	1,088,500	544.25	181810.23	1.1330	5	1671	376	480.36	146710.00
3/31/2005	Th	1,096,900	548.45	182358.68	1.1196	5	1676	377	489.86	147199.86
MARCH			**8746.05**		**1.1885**	**80**			**7359.03**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2389**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
4/4/2005	M	1,066,000	533.00	182891.68	1.2055	5	1681	378	442.14	147642.00
4/5/2005	T	1,072,100	536.05	183427.73	1.1580	5	1686	383	462.91	148104.91
4/6/2005	W	1,068,300	534.15	183961.88	1.1698	5	1691	384	456.62	148561.53
4/7/2005	Th	1,068,300	534.15	184496.03	1.1594	5	1696	385	460.71	149022.24
4/12/2005	T	1,071,800	535.90	185031.93	1.1535	5	1701	386	464.59	149486.83
4/13/2005	W	1,064,100	532.05	185563.98	1.1295	5	1706	387	471.05	149957.88
4/14/2005	Th	1,074,900	537.45	186101.43	1.1406	5	1711	388	471.20	150429.08
4/15/2005	F	1,074,100	537.05	186638.48	1.1787	5	1716	389	455.63	150884.71
4/18/2005	M	1,071,400	535.70	187174.18	1.1082	5	1721	390	483.40	151368.10
4/19/2005	T	1,068,500	534.25	187708.43	1.2559	5	1726	391	425.39	151793.49
4/20/2005	W	428,300	214.15	187922.58	1.1749	2	1728	392	182.27	151975.77
4/21/2005	Th	1,278,900	639.45	188562.03	1.1997	6	1734	393, 394	533.01	152508.77
4/22/2005	F	641,300	320.65	188882.68	1.417	3	1737	394	226.29	152735.06
4/25/2005	M	1,068,900	534.45	189417.13	1.3917	5	1742	395	384.03	153119.09
4/26/2005	T	1,070,900	535.45	189952.58	1.274	5	1747	396	420.29	153539.38
4/27/2005	W	1,068,300	534.15	190486.73	1.2311	5	1752	397	433.88	153973.26
4/28/2005	Th	854,700	427.35	190914.08	1.249	4	1756	398	342.15	154315.41
APRIL			**8555.40**		**1.2024**	**80**			**7115.55**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2372**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
5/3/2005	T	854,800	427.40	191341.48	1.4555	4	1760	399	293.61	154609.02
5/4/2005	W	640,800	320.40	191661.88	1.3041	3	1763	400	245.69	154854.71
5/5/2005	TH	427,700	213.85	191875.73	1.3983	2	1765	401	152.94	155007.65
5/9/2005	M	214,100	107.05	191982.78	1.2718	1	1766	402	84.17	155091.82
5/12/2005	TH	213,700	106.85	192089.63	1.2203	1	1767	403	87.56	155179.38
5/16/2005	M	214,400	107.20	192196.83	1.2203	1	1768	403	87.85	155267.22
MAY			**1282.75**		**1.3477**	**12**			**951.81**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2378**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
6/6/2005	M	214,000	107.00	192303.83	1.198	1	1769	404	89.32	155356.54
6/7/2005	T	1,068,100	534.05	192837.88	1.159	5	1774	404, 405	460.79	155817.33
6/9/2005	Th	1,068,900	534.45	193372.33	1.2419	5	1779	405 406	430.35	156247.67
6/10/2005	F	1,284,800	642.40	194014.73	1.2113	6	1785	406, 407	530.34	156778.01
6/13/2005	M	1,070,700	535.35	194550.08	1.1419	5	1790	408	468.82	157246.84
6/14/2005	T	1,068,400	534.20	195084.28	1.1976	5	1795	409	446.06	157692.90
6/15/2005	W	1,076,400	538.20	195622.48	1.212	5	1800	410	444.06	158136.96
6/16/2005	Th	1,283,900	641.95	196264.43	1.1624	6	1806	411, 412	552.26	158689.22
6/20/2005	M	1,066,700	533.35	196797.78	1.1577	5	1811	412, 413	460.70	159149.92
6/21/2005	T	1,065,900	532.95	197330.73	1.1367	5	1816	413, 414	468.86	159618.77
6/22/2005	W	1,071,500	535.75	197866.48	1.1682	5	1821	414, 415	458.61	160077.38
6/23/2005	Th	1,066,400	533.20	198399.68	1.1517	5	1826	415, 416	462.97	160540.35
6/27/2005	M	214,200	107.10	198506.78	1.115	1	1827	417	96.05	160636.41
6/28/2005	T	1,072,000	536.00	199042.78	1.115	5	1832	417,418	480.72	161117.12
6/29/2005	W	1,282,300	641.15	199683.93	1.093	6	1838	418, 419	586.60	161703.72
6/30/2005	Th	1,069,900	534.95	200218.88	1.1398	5	1843	419, 420	469.34	162173.06
JUNE			**8022.05**		**1.1616**	**75**			**6905.83**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2346**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
7/5/2005	T	1,066,300	533.15	200752.03	1.2323	5	1848	421	432.65	162605.70
7/6/2005	W	1,068,500	534.25	201286.28	1.1526	5	1853	422	463.52	163069.22
7/7/2005	TH	1,074,500	537.25	201823.53	1.1498	5	1858	423	467.26	163536.48
7/8/2005	F	1,076,500	538.25	202361.78	1.17	5	1863	424	460.04	163996.52
7/11/2005	M	1,068,700	534.35	202896.13	1.1503	5	1868	425	464.53	164461.05
7/12/2005	T	1,068,300	534.15	203430.28	1.1848	5	1873	426	450.84	164911.89
7/13/2005	W	1,072,500	536.25	203966.53	1.1193	5	1878	427	479.09	165390.98
7/14/2005	Th	1,071,600	535.80	204502.33	1.1963	5	1883	428	447.88	165838.86
7/18/2005	M	638,500	319.25	204821.58	1.1432	3	1886	429	279.26	166118.12
7/19/2005	T	860,000	430.00	205251.58	1.1355	4	1890	430	378.69	166496.81
7/20/2005	W	1,064,400	532.20	205783.78	1.5453	5	1895	432	344.40	166841.21
7/21/2005	Th	1,067,000	533.50	206317.28	1.4416	5	1900	433	370.07	167211.28
7/25/2005	M	854,400	427.20	206744.48	1.214	4	1904	434	351.89	167563.18
7/26/2005	T	1,068,400	534.20	207278.68	1.2358	5	1909	435	432.27	167995.45
7/27/2005	W	851,800	425.90	207704.58	1.2189	4	1913	436	349.41	168344.86
7/28/2005	Th	428,200	214.10	207918.68	1.2606	2	1915	437	169.84	168514.70
JULY			**7699.80**		**1.2142**	**72**			**6341.64**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2338**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
8/4/2005	Th	641,600	320.80	208239.48	1.3387	3	1918	437	239.64	168754.34
8/9/2005	T	214,200	107.10	208346.58	1.242	1	1919	SLPV9103C	86.23	168840.57
AUGUST			**427.90**		**1.3131**	**4**			**325.87**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2340**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
9/14/2005	W	641,000	320.50	208667.08	1.3634	3	1922	438	235.07	169075.64
9/15/2005	Th	856,900	428.45	209095.53	1.4423	4	1926	439, 440	297.06	169372.70
9/16/2005	F	858,700	429.35	209524.88	1.3255	4	1930	440	323.92	169696.62
9/19/2005	M	1,069,700	534.85	210059.73	1.4137	5	1935	441	378.33	170074.95
9/20/2005	T	854,500	427.25	210486.98	1.2827	4	1939	443	333.09	170408.04
9/21/2005	W	424,200	212.10	210699.08	1.4958	2	1941	444	141.80	170549.83
9/22/2005	Th	1,067,800	533.90	211232.98	1.369	5	1946	445	389.99	170939.83
9/26/2005	M	1,070,600	535.30	211768.28	1.4235	5	1951	446	376.04	171315.87
9/27/2005	T	1,283,800	641.90	212410.18	1.4624	6	1957	447	438.94	171754.81
9/28/2005	W	642,600	321.30	212731.48	1.3082	3	1960	448	245.60	172000.41
9/29/2005	Th	429,000	214.50	212945.98	1.3082	2	1962	448	163.97	172164.38
SEPTEMBER			**4599.40**		**1.3838**	**43**			**3323.81**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2367**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
10/3/2005	M	862,700	431.35	213377.33	1.335	4	1966	449	323.11	172487.49
10/4/2005	T	859,000	429.50	213806.83	1.3063	4	1970	450	328.79	172816.28
10/5/2005	W	857,200	428.60	214235.43	1.1853	4	1974	451	361.60	173177.87
10/6/2005	Th	853,800	426.90	214662.33	1.1513	4	1978	452	370.80	173548.67
10/10/2005	M	852,900	426.45	215088.78	1.1259	4	1982	453	378.76	173927.44
10/11/2005	T	853,900	426.95	215515.73	1.17	4	1986	454	364.91	174292.35
10/12/2005	W	428,300	214.15	215729.88	1.1315	2	1988	455	189.26	174481.61
10/13/2005	Th	1,286,000	643.00	216372.88	1.2518	6	1994	455, 456	513.66	174995.27
10/17/2005	M	853,900	426.95	216799.83	1.2063	4	1998	457	353.93	175349.21
10/18/2005	T	429,300	214.65	217014.48	1.157	2	**2000**	457	185.52	175534.73
10/19/2005	W	1,071,400	535.70	217550.18	1.1232	5	2005	458	476.94	176011.67
10/20/2005	Th	1,071,300	535.65	218085.83	1.1189	5	2010	459	478.73	176490.40
10/24/2005	M	429,900	214.95	218300.78	1.1543	2	2012	460	186.22	176676.62
10/25/2005	T	643,500	321.75	218622.53	1.1543	3	2015	460	278.74	176955.36
10/27/2005	Th	643,800	321.90	218944.43	1.1693	3	2018	461	275.29	177230.65
OCTOBER			**5998.45**		**1.1840**	**56**			**5066.27**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2354**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
11/1/2005	T	640,600	320.30	219264.73	1.2301	3	2021	464	260.39	177491.04
11/3/2005	Th	854,700	427.35	219692.08	1.2596	4	2025	465	339.27	177830.31
11/8/2005	T	642,700	321.35	220013.43	1.3727	3	2028	466	234.10	178064.41
11/21/2005	M	1,068,900	534.45	220547.88	1.2956	5	2033	467	412.51	178476.92
11/22/2005	T	1,068,700	534.35	221082.23	1.2473	5	2038	468	428.41	178905.33
11/23/2005	W	1,066,200	533.10	221615.33	1.2834	5	2043	469	415.38	179320.71
11/28/2005	M	1,071,800	535.90	222151.23	1.1715	5	2048	470	457.45	179778.16
11/29/2005	T	638,700	319.35	222470.58	1.2657	3	2051	471	252.31	180030.47
11/30/2005	W	428,300	214.15	222684.73	1.2657	2	2053	471	169.19	180199.66
NOVEMBER			**3740.30**		**1.2598**	**35**			**2969.01**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2358**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
12/5/2005	M	429,500	214.75	222899.48	1.4878	2	2055	472	144.34	180344.00
12/6/2005	T	214,400	107.20	223006.68	1.4878	1	2056	472	72.05	180416.06
12/8/2005	Th	427,500	213.75	223220.43	1.4878	2	2058	472	143.67	180559.72
12/14/2005	W	426,000	213.00	223433.43	1.4457	2	2060	474	147.33	180707.06
12/15/2005	TH	1,068,800	534.40	223967.83	1.4457	5	2065	474,475	369.65	181076.71
12/16/2005	F	859,200	429.60	224397.43	1.4345	4	2069	475	299.48	181376.18
12/20/2005	T	428,100	214.05	224611.48	1.3759	2	2071	476	155.57	181531.75
12/21/2005	W	1,070,800	535.40	225146.88	1.3759	5	2076	476,477	389.13	181920.88
12/22/2005	TH	854,900	427.45	225574.33	1.3824	4	2080	477	309.21	182230.09
12/28/2005	W	424,500	212.25	225786.58	1.261	2	2082	478	168.32	182398.41
12/29/2005	TH	855,100	427.55	226214.13	1.2309	4	2086	479	347.35	182745.76
DECEMBER			**3529.40**		**1.3862**	**33**			**2546.09**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2379**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
1/3/2006	T	853,800	426.90	226641.03	1.3352	4	2090	480	319.73	183065.48
1/4/2006	W	858,100	429.05	227070.08	1.3134	4	2094	480, 481	326.67	183392.15
1/5/2006	TH	426,200	213.10	227283.18	1.2915	2	2096	481	165.00	183557.16
1/9/2006	M	852,500	426.25	227709.43	1.281	4	2100	482	332.75	183889.90
1/10/2006	T	857,000	428.50	228137.93	1.2742	4	2104	483	336.29	184226.19
1/11/2006	W	856,000	428.00	228565.93	1.2593	4	2108	483, 485	339.87	184566.06
1/12/2006	TH	854,400	427.20	228993.13	1.247	4	2112	484	342.58	184908.65
1/16/2006	M	862,100	431.05	229424.18	1.2292	4	2116	484, 486	350.68	185259.32
1/17/2006	T	857,900	428.95	229853.13	1.2253	4	2120	486, 487	350.08	185609.40
1/18/2006	W	854,100	427.05	230280.18	1.2357	4	2124	487, 488	345.59	185954.99
1/19/2006	Th	855,700	427.85	230708.03	1.1797	4	2128	488, 489	362.68	186317.67
1/23/2006	M	857,100	428.55	231136.58	1.2294	4	2132	490	348.58	186666.25
1/24/2006	T	856,700	428.35	231564.93	1.1426	4	2136	491	374.89	187041.15
1/30/2006	M	643,200	321.60	231886.53	1.1889	3	2139	492	270.50	187311.65
JANUARY			**5672.40**		**1.2423**	**53**			**4565.89**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2380**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
2/6/2006	M	1,282,600	641.30	232527.83	1.3207	6	2145	493, 494	485.58	187797.22
2/7/2006	T	1,070,000	535.00	233062.83	1.2259	5	2150	493, 495	436.41	188233.64
2/8/2006	W	1,070,600	535.30	233598.13	1.186	5	2155	495, 496	451.35	188684.99
2/9/2006	Th	644,400	322.20	233920.33	1.2015	3	2158	496	268.16	188953.15
2/13/2006	M	212,000	106.00	234026.33	1.2015	1	2159	496	88.22	189041.37
2/16/2006	Th	856,800	428.40	234454.73	1.1934	4	2163	497	358.97	189400.35
2/20/2006	M	638,900	319.45	234774.18	1.1691	3	2166	497, 498	273.24	189673.59
2/21/2006	T	643,200	321.60	235095.78	1.1691	3	2169	498	275.08	189948.68
2/23/2006	TH	1,066,800	533.40	235629.18	1.281	5	2174	499	416.39	190365.07
2/27/2006	M	426,300	213.15	235842.33	1.0897	2	2176	500	195.60	190560.67
2/28/2006	T	1,283,200	641.60	236483.93	1.1452	6	2182	500, 501	560.25	191120.93
FEBRUARY			**4597.40**		**1.2069**	**43**			**3809.28**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2374**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
3/1/2006	W	644,300	322.15	236806.08	1.1452	3	2185	501, 502	281.30	191402.23
3/3/2006	F	645,400	322.70	237128.78	1.1452	3	2188	502	281.78	191684.01
3/6/2006	M	1,075,200	537.60	237666.38	1.2973	5	2193	502, 503	414.40	192098.41
3/7/2006	T	1,282,600	641.30	238307.68	1.1859	6	2199	503, 506	540.77	192639.18
3/8/2006	W	1,498,600	749.30	239056.98	1.3164	7	2206	507, 508	569.20	193208.39
3/9/2006	Th	852,500	426.25	239483.23	1.2661	4	2210	508	336.66	193545.05
3/10/2006	F	1,711,200	855.60	240338.83	1.3003	8	2218	509, 510	658.00	194203.05
MARCH			**3854.90**		**1.2507**	**36**			**3082.13**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2376**					

APPENDIX B - MONTHLY PRODUCTION LOG

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
4/25/2006	T	426,600	213.30	240552.13	1.3003	2	2220	510, 512	164.04	194367.09
4/26/2006	W	1,072,500	536.25	241088.38	1.2684	5	2225	512, 513	422.78	194789.87
4/27/2006	TH	642,700	321.35	241409.73	1.1626	3	2228	513	276.41	195066.28
April			**1070.90**		**1.2406**	**10**			**863.22**	
TOTALS			**tons**		**cys**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2376**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
5/1/2006	M	855,900	427.95	241837.68	1.1273	4	2232	513, 514	379.62	195445.90
5/2/2006	T	850,600	425.30	242262.98	1.1776	4	2236	514, 515	361.16	195807.06
5/3/2006	W	429,900	214.95	242477.93	1.1776	2	2238	515	182.53	195989.59
5/4/2006	Th	212,400	106.20	242584.13	1.1776	1	2239	515	90.18	196079.77
5/8/2006	M	640,400	320.20	242904.33	1.3403	3	2242	516	238.90	196318.68
5/9/2006	T	640,200	320.10	243224.43	1.3403	3	2245	516	238.83	196557.50
5/26/2006	F	158,000	79.00	243303.43	0.8827	1	2246	519	89.50	196647.00
May			**1893.70**		**1.1980**	**18**			**1580.72**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2373**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
6/8/2006	Th	438,300	219.15	243522.58	1.1945	2	2248	520	183.47	196830.47
June			**219.15**		**1.1945**	**2.00**			**183.47**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2372**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
7/20/2006	Th	428,300	214.15	243736.73	1.1945	2	2250	521	179.28	197009.75
July			**214.15**		**1.1945**	**2.00**			**179.28**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2372**					

DATE	DAY	LOADED - weight			Density	CARS		SAMPLE	VOLUME	
		Daily lbs	Daily Tons	To-date tons	T/yd^3	Daily cars	to date cars		Daily cys	To-date cys
8/3/2006	Th	309,000	154.50	243891.23	1.1945	2	2252	522	129.34	197139.09
August			**154.50**		**1.1945**	**2.00**			**129.34**	
TOTALS			**tons**		**Ave Density**	**cars**			**cys**	
CUMULATIVE DENSITY (Tons/Cubic Yards)					**1.2372**					

APPENDIX C

APPENDIX C - MATERIALS BREAKOUT, SHATTUCK SITE AND BANNOCK STREET

		Bannock Street				East Perimeter				Total	
DATE	MANIFEST NUMBER	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	TONS	CYS
9/14/2005	1920	214,500	107.25	1.3634	78.66		0.00		0.00	107.25	78.66
9/14/2005	1921	214,400	107.20	1.3634	78.63		0.00		0.00	107.20	78.63
9/14/2005	1922	212,100	106.05	1.3634	77.78		0.00		0.00	106.05	77.78
9/15/2005	1923		0.00		0.00	215,800	107.90	1.4423	74.81	107.90	74.81
9/15/2005	1924		0.00		0.00	214,500	107.25	1.4423	74.36	107.25	74.36
9/15/2005	1925		0.00		0.00	214,500	107.25	1.4423	74.36	107.25	74.36
9/15/2005	1926	212,100	106.05	1.3255	80.01		0.00		0.00	106.05	80.01
9/16/2005	1927	214,000	107.00	1.3255	80.72		0.00		0.00	107.00	80.72
9/16/2005	1928	214,100	107.05	1.3255	80.76		0.00		0.00	107.05	80.76
9/16/2005	1929	215,400	107.70	1.3255	81.25		0.00		0.00	107.70	81.25
9/16/2005	1930	215,200	107.60	1.3255	81.18		0.00		0.00	107.60	81.18
9/19/2005	1931		0.00		0.00	215,700	107.85	1.4137	76.29	107.85	76.29
9/19/2005	1932		0.00		0.00	215,200	107.60	1.4137	76.11	107.60	76.11
9/19/2005	1933		0.00		0.00	215,400	107.70	1.4137	76.18	107.70	76.18
9/19/2005	1934		0.00		0.00	212,400	106.20	1.4137	75.12	106.20	75.12
9/19/2005	1935		0.00		0.00	212,000	106.00	1.4137	74.98	106.00	74.98
9/20/2005	1936	214,200	107.10	1.2827	83.50		0.00		0.00	107.10	83.50
9/20/2005	1937	212,000	106.00	1.2827	82.64		0.00		0.00	106.00	82.64
9/20/2005	1938	214,200	107.10	1.2827	83.50		0.00		0.00	107.10	83.50
9/20/2005	1939	214,100	107.05	1.2827	83.46		0.00		0.00	107.05	83.46
9/21/2005	1940		0.00		0.00	212,200	106.10	1.4958	70.93	106.10	70.93
9/21/2005	1941		0.00		0.00	212,000	106.00	1.4958	70.87	106.00	70.87
9/22/2005	1942	212,000	106.00	1.369	77.43		0.00		0.00	106.00	77.43
9/22/2005	1943	214,000	107.00	1.369	78.16		0.00		0.00	107.00	78.16
9/22/2005	1944	215,400	107.70	1.369	78.67		0.00		0.00	107.70	78.67
9/22/2005	1945	214,200	107.10	1.369	78.23		0.00		0.00	107.10	78.23
9/22/2005	1946	212,200	106.10	1.369	77.50		0.00		0.00	106.10	77.50
9/26/2005	1947	212,200	106.10	1.4235	74.53		0.00		0.00	106.10	74.53
9/26/2005	1948	214,300	107.15	1.4235	75.27		0.00		0.00	107.15	75.27
9/26/2005	1949	214,200	107.10	1.4235	75.24		0.00		0.00	107.10	75.24
9/26/2005	1950	214,400	107.20	1.4235	75.31		0.00		0.00	107.20	75.31
9/26/2005	1951	215,500	107.75	1.4235	75.69		0.00		0.00	107.75	75.69
9/27/2005	1952	214,100	107.05	1.4624	73.20		0.00		0.00	107.05	73.20
9/27/2005	1953	214,000	107.00	1.4624	73.17		0.00		0.00	107.00	73.17
9/27/2005	1954	214,100	107.05	1.4624	73.20		0.00		0.00	107.05	73.20
9/27/2005	1955	214,800	107.40	1.4624	73.44		0.00		0.00	107.40	73.44
9/27/2005	1956	212,200	106.10	1.4624	72.55		0.00		0.00	106.10	72.55
9/27/2005	1957	214,300	107.15	1.4624	73.27		0.00		0.00	107.15	73.27
9/28/2005	1958	214,100	107.05	1.3082	81.83		0.00		0.00	107.05	81.83
9/28/2005	1959	214,400	107.20	1.3082	81.94		0.00		0.00	107.20	81.94
9/28/2005	1960	214,100	107.05	1.3082	81.83		0.00		0.00	107.05	81.83
9/29/2005	1961	213,600	106.80	1.3082	81.64		0.00		0.00	106.80	81.64
9/29/2005	1962	215,400	107.70	1.3082	82.33		0.00		0.00	107.70	82.33
12/14/2005	2059	214,000	107.00	1.4457	74.01		0.00		0.00	107.00	74.01
12/14/2005	2060	212,000	106.00	1.4457	73.32		0.00		0.00	106.00	73.32
12/15/2005	2061	214,200	107.10	1.4457	74.08		0.00		0.00	107.10	74.08
12/15/2005	2062	212,000	106.00	1.4457	73.32		0.00		0.00	106.00	73.32
12/15/2005	2063	214,000	107.00	1.4457	74.01		0.00		0.00	107.00	74.01
12/15/2005	2064	214,200	107.10	1.4345	74.66		0.00		0.00	107.10	74.66
12/15/2005	2065	214,400	107.20	1.4345	74.73		0.00		0.00	107.20	74.73

APPENDIX C - MATERIALS BREAKOUT, SHATTUCK SITE AND BANNOCK STREET

		Bannock Street				East Perimeter				Total	
DATE	MANIFEST NUMBER	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	TONS	CYS
12/16/2005	2066	214,800	107.40	1.4345	74.87		0.00		0.00	107.40	74.87
12/16/2005	2067	215,000	107.50	1.4345	74.94		0.00		0.00	107.50	74.94
12/16/2005	2068	214,000	107.00	1.4345	74.59		0.00		0.00	107.00	74.59
12/16/2005	2069	215,400	107.70	1.4345	75.08		0.00		0.00	107.70	75.08
12/20/2005	2070	214,000	107.00	1.3759	77.77		0.00		0.00	107.00	77.77
12/20/2005	2071	214,100	107.05	1.3759	77.80		0.00		0.00	107.05	77.80
12/21/2005	2072	214,400	107.20	1.3759	77.91		0.00		0.00	107.20	77.91
12/21/2005	2073	214,200	107.10	1.3759	77.84		0.00		0.00	107.10	77.84
12/21/2005	2074	214,100	107.05	1.3759	77.80		0.00		0.00	107.05	77.80
12/21/2005	2075	214,200	107.10	1.3759	77.84		0.00		0.00	107.10	77.84
12/21/2005	2076	213,900	106.95	1.3824	77.37		0.00		0.00	106.95	77.37
12/22/2005	2077	214,000	107.00	1.3824	77.40		0.00		0.00	107.00	77.40
12/22/2005	2078	212,200	106.10	1.3824	76.75		0.00		0.00	106.10	76.75
12/22/2005	2079	214,300	107.15	1.3824	77.51		0.00		0.00	107.15	77.51
12/22/2005	2080	214,400	107.20	1.3824	77.55		0.00		0.00	107.20	77.55
12/28/2005	2081	212,200	106.10	1.2610	84.14		0.00		0.00	106.10	84.14
12/28/2005	2082	212,300	106.15	1.2610	84.18		0.00		0.00	106.15	84.18
12/29/2005	2083	0	0.00		0.00	215,400	107.70	1.2309	87.50	107.70	87.50
12/29/2005	2084	0	0.00		0.00	212,000	106.00	1.2309	86.12	106.00	86.12
12/29/2005	2085	0	0.00		0.00	214,000	107.00	1.2309	86.93	107.00	86.93
12/29/2005	2086	0	0.00		0.00	213,700	106.85	1.2309	86.81	106.85	86.81
1/3/2006	2087	0	0.00		0.00	212,200	106.10	1.3352	79.46	106.10	79.46
1/3/2006	2088	0	0.00		0.00	215,500	107.75	1.3352	80.70	107.75	80.70
1/3/2006	2089	0	0.00		0.00	214,100	107.05	1.3352	80.18	107.05	80.18
1/3/2006	2090	0	0.00		0.00	212,000	106.00	1.3352	79.39	106.00	79.39
1/4/2006	2091	0	0.00		0.00	214,100	107.05	1.3352	80.18	107.05	80.18
1/4/2006	2092	0	0.00		0.00	215,600	107.80	1.3352	80.74	107.80	80.74
1/4/2006	2093	0	0.00		0.00	214,000	107.00	1.2915	82.85	107.00	82.85
1/4/2006	2094	0	0.00		0.00	214,400	107.20	1.2915	83.00	107.20	83.00
1/5/2006	2095	0	0.00		0.00	214,000	107.00	1.2915	82.85	107.00	82.85
1/5/2006	2096	0	0.00		0.00	212,200	106.10	1.2915	82.15	106.10	82.15
1/9/2006	2097	212,100	106.05	1.2810	82.79	0	0.00		0.00	106.05	82.79
1/9/2006	2098	214,200	107.10	1.2810	83.61	0	0.00		0.00	107.10	83.61
1/9/2006	2099	213,900	106.95	1.2810	83.49	0	0.00		0.00	106.95	83.49
1/9/2006	2100	212,300	106.15	1.2810	82.86	0	0.00		0.00	106.15	82.86
1/10/2006	2101	0	0.00		0.00	214,800	107.40	1.2742	84.29	107.40	84.29
1/10/2006	2102	0	0.00		0.00	214,200	107.10	1.2742	84.05	107.10	84.05
1/10/2006	2103	0	0.00		0.00	214,200	107.10	1.2742	84.05	107.10	84.05
1/10/2006	2104	0	0.00		0.00	214,100	107.05	1.2742	84.01	107.05	84.01
1/11/2006	2105	0	0.00		0.00	214,100	107.05	1.2742	84.01	107.05	84.01
1/11/2006	2106	0	0.00		0.00	215,500	107.75	1.2593	85.56	107.75	85.56
1/11/2006	2107	0	0.00		0.00	212,000	106.00	1.2593	84.17	106.00	84.17
1/11/2006	2108	0	0.00		0.00	214,400	107.20	1.2593	85.13	107.20	85.13
1/12/2006	2109	214,100	107.05	1.2470	85.85	0	0.00		0.00	107.05	85.85
1/12/2006	2110	214,000	107.00	1.2470	85.81	0	0.00		0.00	107.00	85.81
1/12/2006	2111	214,200	107.10	1.2470	85.89	0	0.00		0.00	107.10	85.89
1/12/2006	2112	212,100	106.05	1.2470	85.04	0	0.00		0.00	106.05	85.04
1/16/2006	2113	215,000	107.50	1.2470	86.21	0	0.00		0.00	107.50	86.21
1/16/2006	2114	0	0.00		0.00	215,700	107.85	1.2292	87.74	107.85	87.74
1/16/2006	2115	0	0.00		0.00	215,700	107.85	1.2292	87.74	107.85	87.74

APPENDIX C - MATERIALS BREAKOUT, SHATTUCK SITE AND BANNOCK STREET

		Bannock Street				East Perimeter				Total	
DATE	MANIFEST NUMBER	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	NET WT (lbs)	TONS	DENSITY T/yd^3	CYS	TONS	CYS
1/16/2006	2116	0	0.00		0.00	215,600	107.80	1.2292	87.70	107.80	87.70
1/17/2006	2117	0	0.00		0.00	215,500	107.75	1.2292	87.66	107.75	87.66
1/17/2006	2118	0	0.00		0.00	214,500	107.25	1.2292	87.25	107.25	87.25
1/17/2006	2119	0	0.00		0.00	215,700	107.85	1.2253	88.02	107.85	88.02
1/17/2006	2120	0	0.00		0.00	212,200	106.10	1.2253	86.59	106.10	86.59
1/18/2006	2121	0	0.00		0.00	212,000	106.00	1.2253	86.51	106.00	86.51
1/18/2006	2122	212,200	106.10	1.2357	85.86	0	0.00		0.00	106.10	85.86
1/18/2006	2123	214,200	107.10	1.2357	86.67	0	0.00		0.00	107.10	86.67
1/18/2006	2124	215,700	107.85	1.2357	87.28	0	0.00		0.00	107.85	87.28
1/19/2006	2125	214,100	107.05	1.2357	86.63	0	0.00		0.00	107.05	86.63
1/19/2006	2126	215,300	107.65	1.2357	87.12	0	0.00		0.00	107.65	87.12
1/19/2006	2127	215,300	107.65	1.1797	91.25	0	0.00		0.00	107.65	91.25
1/19/2006	2128	214,200	107.10	1.1797	90.79	0	0.00		0.00	107.10	90.79
1/23/2006	2129	214,000	107.00	1.2294	87.03	0	0.00		0.00	107.00	87.03
1/23/2006	2130	214,500	107.25	1.2294	87.24	0	0.00		0.00	107.25	87.24
1/23/2006	2131	214,200	107.10	1.2294	87.12	0	0.00		0.00	107.10	87.12
1/23/2006	2132	214,400	107.20	1.2294	87.20	0	0.00		0.00	107.20	87.20
1/24/2006	2133	214,300	107.15	1.1426	93.78	0	0.00		0.00	107.15	93.78
1/24/2006	2134	214,000	107.00	1.1426	93.65	0	0.00		0.00	107.00	93.65
1/24/2006	2135	214,300	107.15	1.1426	93.78	0	0.00		0.00	107.15	93.78
1/24/2006	2136	214,200	107.10	1.1426	93.73	0	0.00		0.00	107.10	93.73
1/30/2006	2137	214,200	107.10	1.1889	90.08	0	0.00		0.00	107.10	90.08
1/30/2006	2138	214,500	107.25	1.1889	90.21	0	0.00		0.00	107.25	90.21
1/30/2006	2139	214,500	107.25	1.1889	90.21	0	0.00		0.00	107.25	90.21
2/6/2006	2140	214,200	107.10	1.3207	81.09	0	0.00		0.00	107.10	81.09
2/6/2006	2141	214,100	107.05	1.3207	81.06	0	0.00		0.00	107.05	81.06
2/6/2006	2142	214,000	107.00	1.3207	81.02	0	0.00		0.00	107.00	81.02
2/6/2006	2143	212,300	106.15	1.3207	80.37	0	0.00		0.00	106.15	80.37
2/6/2006	2144	214,000	107.00	1.3207	81.02	0	0.00		0.00	107.00	81.02
2/6/2006	2145	0	0.00		0.00	214,000	107.00	1.2259	87.28	107.00	87.28
TOTALS			9520.35 Tons		7201.71 cys		4388.55 Tons		3364.64 cys	13908.90 Tons	10566.35 cys

APPENDIX D

VAN BIBBER CREEK BACKFILL SAMPLE DATA

VAN BIBBER CREEK
PHASE 4

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RADIOLOGICAL SOIL SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-VBC-P4-001C	Phase 4	0-20	3/21/2005	0.89	0.05	0.06	1.22	3.63	5.89	-0.15	0.26	0.35	0.88	0.36	0.58
A1-VBC-P4-002C	Phase 4	0-20	3/21/2005	0.92	0.05	0.06	-2.65	3.76	5.70	-0.09	0.25	0.33	1.10	0.36	0.58
A1-VBC-P4-003C	Phase 4	0-20	3/21/2005	1.08	0.05	0.06	3.81	3.90	5.84	-0.03	0.25	0.35	1.01	0.34	0.57
A1-VBC-P4-004C	Phase 4	0-20	3/21/2005	1.04	0.05	0.06	0.20	3.97	5.86	-0.11	0.25	0.34	0.97	0.37	0.60
A1-VBC-P4-005C	Phase 4	0-20	3/21/2005	1.24	0.06	0.05	-8.49	4.57	5.76	0.09	0.25	0.34	0.96	0.25	0.40
A1-VBC-P4-006C	Phase 4	0-20	3/21/2005	1.06	0.05	0.06	1.62	4.12	5.89	0.10	0.25	0.34	0.98	0.19	0.44
A1-VBC-P4-007C	Phase 4	0-20	3/21/2005	0.74	0.04	0.06	-2.09	4.40	5.95	0.02	0.25	0.35	0.71	0.30	0.50
A1-VBC-P4-008C	Phase 4	0-20	3/21/2005	0.88	0.05	0.05	-8.28	4.69	5.90	0.06	0.25	0.35	0.57	0.26	0.41
A1-VBC-P4-009C	Phase 4	0-20	3/21/2005	0.91	0.05	0.05	-9.58	4.65	5.79	-0.04	0.25	0.34	1.08	0.32	0.50
A1-VBC-QC-900C *	Phase 4	0-20	3/21/2005	1.29	0.06	0.06	4.58	3.89	5.78	0.00	0.26	0.35	0.94	0.35	0.56

NOTES

*** A1-VBC-QC-900C sample is a split sample of A1-VBC-P4-006C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR PHASE 4, ALL VAN BIBBER CREEK SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE VAN BIBBER CREEK MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RCRA METALS SOIL SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				**160**	**5,400**	**99.5**	**53.94**	**540**	**17.66**	**390**	**490**	**390**
A1-VBC-P4-001A	Phase 4	0-10	3/21/2005	3.6	140	0.35	19.0	15.0	0.0086	1.00	0.90	0.087
A1-VBC-P4-001B		10-20		5.7	46	0.39	14.0	14.0	0.0078	1.50	1.20	0.088
A1-VBC-P4-002A	Phase 4	0-10	3/21/2005	5.4	230	0.68	23.0	11.0	0.0110	1.20	0.90	0.088
A1-VBC-P4-002B		10-20		32.0	120	0.74	13.0	11.0	0.0290	3.80	0.91	0.087
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	4.2	130	0.52	22.0	13.0	0.0080	0.76	0.90	0.088
A1-VBC-P4-003B		10-20		4.1	34	0.28	11.0	6.3	0.0073	1.70	0.84	0.082
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	4.5	280	0.59	25.0	12.0	0.0088	1.80	1.20	0.087
A1-VBC-P4-004B		10-20		16.0	51	0.20	10.0	5.4	0.0079	2.00	1.20	0.084
A1-VBC-P4-005A	Phase 4	0-10	3/21/2005	4.2	100	0.62	19.0	18.0	0.0078	0.72	0.90	0.087
A1-VBC-P4-005B		10-20		3.1	44	0.18	8.8	4.5	0.0072	0.86	0.83	0.081
A1-VBC-P4-006A	Phase 4	0-10	3/21/2005	4.4	190	0.51	23.0	10.0	0.0077	0.92	0.89	0.087
A1-VBC-P4-006B		10-20		2.9	66	0.23	9.0	6.2	0.0073	0.98	1.00	0.083
A1-VBC-P4-007A	Phase 4	0-10	3/21/2005	2.9	88	0.23	13.0	6.7	0.0075	0.68	0.86	0.084
A1-VBC-P4-007B		10-20		3.9	29	0.33	9.9	6.9	0.0190	0.69	0.90	0.085
A1-VBC-P4-008A	Phase 4	0-10	3/21/2005	4.0	170	0.53	20.0	9.4	0.0078	0.73	0.90	0.087
A1-VBC-P4-008B		10-20		8.2	180	0.63	18.0	8.3	0.0098	4.30	0.91	0.089
A1-VBC-P4-009A	Phase 4	0-10	3/21/2005	4.0	180	0.25	14.0	17.0	0.0240	0.85	0.87	0.084
A1-VBC-P4-009B		10-20		7.5	74	0.37	16.0	10.0	0.0076	1.80	0.88	0.086
A1-VBC-QC-900A **	Phase 4	0-10	3/21/2005	5.4	480	0.43	22.0	11.0	0.0880	1.60	0.89	0.086
A1-VBC-QC-900B ***		10-20		4.0	56	0.32	14.0	7.2	0.0079	1.30	2.30	0.085

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:**
Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.
**** A1-VBC-QC-900A sample is a split sample of A1-VBC-P4-005A.**
***** A1-VBC-QC-900B sample is a split sample of A1-VBC-P4-005B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK TPH-DRO AND TPH-GRO SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-VBC-P4-001A	Phase 4	0-10	3/21/2005	26.0	0.46
A1-VBC-P4-001B		10-20		1.9	0.46
A1-VBC-P4-002A	Phase 4	0-10	3/21/2005	13.0	0.46
A1-VBC-P4-002B		10-20		1.9	0.46
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	1.9	0.46
A1-VBC-P4-003B		10-20		1.8	0.43
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	1.9	0.46
A1-VBC-P4-004B		10-20		1.9	0.44
A1-VBC-P4-005A	Phase 4	0-10	3/21/2005	1.9	0.46
A1-VBC-P4-005B		10-20		1.8	0.43
A1-VBC-P4-006A	Phase 4	0-10	3/21/2005	2.0	0.46
A1-VBC-P4-006B		10-20		1.8	0.44
A1-VBC-P4-007A	Phase 4	0-10	3/21/2005	1.9	0.44
A1-VBC-P4-007B		10-20		1.9	0.45
A1-VBC-P4-008A	Phase 4	0-10	3/21/2005	3.4	0.46
A1-VBC-P4-008B		10-20		2.0	0.47
A1-VBC-P4-009A	Phase 4	0-10	3/21/2005	69.0	0.44
A1-VBC-P4-009B		10-20		3.4	0.45
A1-VBC-QC-900A *	Phase 4	0-10	3/21/2005	14.0	0.46
A1-VBC-QC-900B **		10-20		1.9	0.78

NOTES

*** A1-VBC-QC-900A sample is a split sample of A1-VBC-P4-005A.**

**** A1-VBC-QC-900B sample is a split sample of A1-VBC-P4-005B.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	4,4'-DDD	0.39	U
				4,4'-DDE	0.40	U
				4,4'-DDT	0.61	U
				Aldrin	0.49	U
				alpha-BHC	0.50	U
				alpha-Chlordane	0.43	U
				beta-BHC	0.91	U
				Chlordane (technical)	3.70	U
				delta-BHC	0.55	U
				Dieldrin	0.44	U
				Endosulfan I	0.51	U
				Endosulfan II	0.45	U
				Endosulfan sulfate	0.51	U
				Endrin	0.45	U
				Endrin aldehyde	0.58	U
				Endrin ketone	0.57	J
				gamma-BHC (Lindane)	0.50	U
				gamma-Chlordane	0.43	U
				Heptachlor	0.68	U
				Heptachlor epoxide	0.44	U
				Methoxychlor	0.83	J
				Toxaphene	27.00	U
A1-VBC-P4-003B	Phase 4	10-20	3/21/2005	4,4'-DDD	0.37	U
				4,4'-DDE	0.38	U
				4,4'-DDT	0.57	U
				Aldrin	0.46	U
				alpha-BHC	0.47	U
				alpha-Chlordane	0.40	U
				beta-BHC	0.86	U
				Chlordane (technical)	3.40	U
				delta-BHC	0.51	U
				Dieldrin	0.41	U
				Endosulfan I	0.48	U
				Endosulfan II	0.42	U
				Endosulfan sulfate	0.48	U
				Endrin	0.42	U
				Endrin aldehyde	0.55	U
				Endrin ketone	0.42	U
				gamma-BHC (Lindane)	0.47	U
				gamma-Chlordane	0.40	U
				Heptachlor	0.64	U
				Heptachlor epoxide	0.41	U
				Methoxychlor	0.71	U
				Toxaphene	25.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	4,4'-DDD	0.38	U
				4,4'-DDE	0.40	U
				4,4'-DDT	0.60	U
				Aldrin	0.48	U
				alpha-BHC	0.49	U
				alpha-Chlordane	0.42	U
				beta-BHC	0.90	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.54	U
				Dieldrin	0.43	U
				Endosulfan I	0.50	U
				Endosulfan II	0.44	U
				Endosulfan sulfate	0.50	U
				Endrin	0.44	U
				Endrin aldehyde	0.58	U
				Endrin ketone	0.44	U
				gamma-BHC (Lindane)	0.49	U
				gamma-Chlordane	0.42	U
				Heptachlor	0.67	U
				Heptachlor epoxide	0.43	U
				Methoxychlor	0.74	U
				Toxaphene	26.00	U
A1-VBC-P4-004B	Phase 4	10-20	3/21/2005	4,4'-DDD	0.37	U
				4,4'-DDE	0.97	J
				4,4'-DDT	0.58	U
				Aldrin	0.47	U
				alpha-BHC	0.48	U
				alpha-Chlordane	0.41	U
				beta-BHC	0.88	U
				Chlordane (technical)	3.50	U
				delta-BHC	0.53	U
				Dieldrin	0.42	U
				Endosulfan I	0.49	U
				Endosulfan II	0.43	U
				Endosulfan sulfate	0.49	U
				Endrin	0.43	U
				Endrin aldehyde	0.56	U
				Endrin ketone	0.43	U
				gamma-BHC (Lindane)	0.48	U
				gamma-Chlordane	0.41	U
				Heptachlor	0.65	U
				Heptachlor epoxide	0.42	U
				Methoxychlor	0.72	U
				Toxaphene	26.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PCBs SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	Aroclor 1016	5.4	ug/kg	U
				Aroclor 1221	4.0	ug/kg	U
				Aroclor 1232	5.2	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.3	ug/kg	U
				Aroclor 1254	8.0	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	85.0	%	
				Decachlorobiphenyl	91.0	%	
				Tetrachloro-m-xylene	90.0	%	
				Tetrachloro-m-xylene	85.0	%	
A1-VBC-P4-003B	Phase 4	10-20	3/21/2005	Aroclor 1016	5.0	ug/kg	U
				Aroclor 1221	3.8	ug/kg	U
				Aroclor 1232	4.9	ug/kg	U
				Aroclor 1242	9.9	ug/kg	U
				Aroclor 1248	4.0	ug/kg	U
				Aroclor 1254	7.5	ug/kg	U
				Aroclor 1260	1.6	ug/kg	U
				Decachlorobiphenyl	83.0	%	
				Decachlorobiphenyl	64.0	%	
				Tetrachloro-m-xylene	76.0	%	
				Tetrachloro-m-xylene	79.0	%	
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	Aroclor 1016	5.3	ug/kg	U
				Aroclor 1221	4.0	ug/kg	U
				Aroclor 1232	5.2	ug/kg	U
				Aroclor 1242	10.0	ug/kg	U
				Aroclor 1248	4.2	ug/kg	U
				Aroclor 1254	7.9	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	91.0	%	
				Decachlorobiphenyl	74.0	%	
				Tetrachloro-m-xylene	77.0	%	
				Tetrachloro-m-xylene	85.0	%	
A1-VBC-P4-004B	Phase 4	10-20	3/21/2005	Aroclor 1016	5.1	ug/kg	U
				Aroclor 1221	3.9	ug/kg	U
				Aroclor 1232	5.0	ug/kg	U
				Aroclor 1242	10.0	ug/kg	U
				Aroclor 1248	4.1	ug/kg	U
				Aroclor 1254	7.7	ug/kg	U
				Aroclor 1260	1.6	ug/kg	U
				Decachlorobiphenyl	73.0	%	
				Decachlorobiphenyl	84.0	%	
				Tetrachloro-m-xylene	79.0	%	
				Tetrachloro-m-xylene	84.0	%	

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK VOCs, SVOCs, ADDITIONAL HEAVY METALS SAMPLE RESULTS (PHASE 4)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-001A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	83	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	59	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.9	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	63	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	77	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	88	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	57	ug/kg	
				Aluminum	11000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.59	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.53	mg/kg	J
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	85	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-001A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	7100	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	5.5	mg/kg	
				Copper	18	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	95	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	15000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	3300	mg/kg	
				Manganese	230	mg/kg	
				Methylene chloride	2.8	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	11	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	62	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl		%	U NC DIL
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	66	%	
				Potassium	2000	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	520	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	67	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	97	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	34	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	46	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-001B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.26	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.26	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	85	%	
				1,2-Dichloroethene (total)	0.37	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	61	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.3	ug/kg	U
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	61	%	
				2-Fluorophenol	63	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	49	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	49	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	85	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	89	%	
				Acenaphthene	37	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	8.1	ug/kg	J
				Aluminum	14000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.39	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	1.3	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	85	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-001B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	4600	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.26	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	7.5	mg/kg	
				Copper	18	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	43	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	100	%	
				Diethyl phthalate	37	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	43	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	22000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	3500	mg/kg	
				Manganese	140	mg/kg	
				Methylene chloride	3	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	16	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	64	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	69	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	18	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	65	%	
				Potassium	1500	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	750	mg/kg	
				Styrene	0.26	ug/kg	U
				Terphenyl-d14	76	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	94	%	
				trans-1,2-Dichloroethene	0.43	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	24	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	63	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-002A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.26	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.26	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	31	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	89	%	
				1,2-Dichloroethene (total)	0.37	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	48	ug/kg	U
				2,4-Dichlorophenol	64	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	200	ug/kg	U
				2,6-Dinitrotoluene	200	ug/kg	U
				2-Butanone (MEK)	12	ug/kg	J
				2-Chloronaphthalene	42	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	57	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	49	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	49	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	200	ug/kg	U
				4-Bromofluorobenzene	86	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	65	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	310	ug/kg	U
				a,a,a-Trifluorotoluene	99	%	
				Acenaphthene	37	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	65	ug/kg	
				Aluminum	19000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.32	mg/kg	U
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	48	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.85	mg/kg	
				bis(2-Chloroethoxy)methane	42	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	86	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-002A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	67000	mg/kg	B
				Carbon tetrachloride	0.31	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.31	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.26	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	7.5	mg/kg	
				Copper	17	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	43	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	102	%	
				Diethyl phthalate	37	ug/kg	U
				Dimethyl phthalate	48	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	64	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	43	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	53	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	19000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	7700	mg/kg	
				Manganese	710	mg/kg	
				Methylene chloride	3	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	15	mg/kg	
				Nitrobenzene	42	ug/kg	U
				Nitrobenzene-d5	57	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	70	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	18	%	
				Phenanthrene	42	ug/kg	U
				Phenol	42	ug/kg	U
				Phenol-d5	62	%	
				Potassium	3100	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	740	mg/kg	
				Styrene	0.26	ug/kg	U
				Terphenyl-d14	82	%	
				Tetrachloroethene	0.31	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	99	%	
				trans-1,2-Dichloroethene	0.43	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	44	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	47	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-002B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.67	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	85	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	62	ug/kg	U
				2,4-Dimethylphenol	43	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.2	ug/kg	U
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	67	%	
				2-Fluorophenol	69	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	83	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	770	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	101	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	5.7	ug/kg	J
				Aluminum	10000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.54	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.79	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	84	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.72	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-002B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	77	ug/kg	U
				Calcium	6100	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.43	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.43	ug/kg	U
				Cobalt	12	mg/kg	
				Copper	23	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	97	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	62	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	55	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	30000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	3100	mg/kg	
				Manganese	360	mg/kg	
				Methylene chloride	2.6	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	17	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	68	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	67	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	71	%	
				Potassium	1000	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	670	mg/kg	
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	91	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	46	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.67	ug/kg	U
				Zinc	54	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.26	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.26	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	101	%	
				1,2-Dichloroethene (total)	0.37	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	62	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	23	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	57	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	49	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	49	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	81	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	65	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	101	%	
				Acenaphthene	37	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	130	ug/kg	
				Aluminum	16000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.42	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.72	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	85	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-003A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	18000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.26	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	6.3	mg/kg	
				Copper	21	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	43	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	98	%	
				Diethyl phthalate	37	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	43	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	17000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	5500	mg/kg	
				Manganese	390	mg/kg	
				Methylene chloride	3.3	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	16	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	58	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	52	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	18	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	61	%	
				Potassium	3200	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	710	mg/kg	
				Styrene	0.26	ug/kg	U
				Terphenyl-d14	75	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	2.9	mg/kg	J
				Toluene	0.27	ug/kg	U
				Toluene-d8	96	%	
				trans-1,2-Dichloroethene	0.43	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	38	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	51	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-003B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.24	ug/kg	U
				1,1,1-Trichloroethane	0.3	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.64	ug/kg	U
				1,1,2-Trichloroethane	0.37	ug/kg	U
				1,1-Dichloroethane	0.24	ug/kg	U
				1,1-Dichloroethene	0.35	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	38	ug/kg	U
				1,2-Dichloroethane	0.25	ug/kg	U
				1,2-Dichloroethane-d4	87	%	
				1,2-Dichloroethene (total)	0.34	ug/kg	U
				1,2-Dichloropropane	0.25	ug/kg	U
				1,3-Dichlorobenzene	35	ug/kg	U
				1,4-Dichlorobenzene	38	ug/kg	U
				2,4,5-Trichlorophenol	31	ug/kg	U
				2,4,6-Tribromophenol	59	%	
				2,4,6-Trichlorophenol	45	ug/kg	U
				2,4-Dichlorophenol	59	ug/kg	U
				2,4-Dimethylphenol	41	ug/kg	U
				2,4-Dinitrophenol	420	ug/kg	U
				2,4-Dinitrotoluene	180	ug/kg	U
				2,6-Dinitrotoluene	180	ug/kg	U
				2-Butanone (MEK)	3.1	ug/kg	U
				2-Chloronaphthalene	39	ug/kg	U
				2-Chlorophenol	38	ug/kg	U
				2-Fluorobiphenyl	59	%	
				2-Fluorophenol	59	%	
				2-Methylnaphthalene	35	ug/kg	U
				2-Methylphenol	46	ug/kg	U
				2-Nitroaniline	38	ug/kg	U
				2-Nitrophenol	46	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	97	ug/kg	U
				4,6-Dinitro-2-methylphenol	180	ug/kg	U
				4-Bromofluorobenzene	87	%	
				4-Bromophenyl phenyl ether	30	ug/kg	U
				4-Chloro-3-methylphenol	38	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	43	ug/kg	U
				4-Methylphenol	61	ug/kg	U
				4-Nitroaniline	730	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	98	%	
				Acenaphthene	34	ug/kg	U
				Acenaphthylene	31	ug/kg	U
				Acetone	6.6	ug/kg	J
				Aluminum	8400	mg/kg	
				Anthracene	26	ug/kg	U
				Antimony	0.3	mg/kg	U
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	27	ug/kg	U
				Benzo(a)pyrene	45	ug/kg	U
				Benzo(b)fluoranthene	32	ug/kg	U
				Benzo(ghi)perylene	30	ug/kg	U
				Benzo(k)fluoranthene	35	ug/kg	U
				Benzoic acid	320	ug/kg	U
				Benzyl alcohol	95	ug/kg	U
				Beryllium	0.56	mg/kg	J
				bis(2-Chloroethoxy)methane	39	ug/kg	U
				bis(2-Chloroethyl) ether	27	ug/kg	U
				bis(2-Chloroisopropyl) ether	32	ug/kg	U
				bis(2-Ethylhexyl) phthalate	80	ug/kg	U
				Bromochloromethane	0.38	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.3	ug/kg	U
				Bromomethane	0.69	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-003B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	73	ug/kg	U
				Calcium	2200	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.26	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.41	ug/kg	U
				Chrysene	31	ug/kg	U
				cis-1,2-Dichloroethene	0.24	ug/kg	U
				cis-1,3-Dichloropropene	0.41	ug/kg	U
				Cobalt	4.8	mg/kg	
				Copper	7.8	mg/kg	B
				Dibenz(a,h)anthracene	27	ug/kg	U
				Dibenzofuran	40	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	100	%	
				Diethyl phthalate	34	ug/kg	U
				Dimethyl phthalate	45	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	59	ug/kg	U
				Ethylbenzene	0.31	ug/kg	U
				Fluoranthene	25	ug/kg	U
				Fluorene	38	ug/kg	U
				Hexachlorobenzene	40	ug/kg	U
				Hexachlorobutadiene	53	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	49	ug/kg	U
				Indeno(1,2,3-cd)pyrene	25	ug/kg	U
				Iron	14000	mg/kg	B
				Isophorone	38	ug/kg	U
				Magnesium	1700	mg/kg	
				Manganese	130	mg/kg	
				Methylene chloride	2.9	ug/kg	J B
				Naphthalene	35	ug/kg	U
				Nickel	11	mg/kg	
				Nitrobenzene	39	ug/kg	U
				Nitrobenzene-d5	59	%	
				N-Nitrosodi-n-propylamine	25	ug/kg	U
				N-Nitrosodiphenylamine	31	ug/kg	U
				o-Terphenyl	76	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	12	%	
				Phenanthrene	39	ug/kg	U
				Phenol	39	ug/kg	U
				Phenol-d5	62	%	
				Potassium	960	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	340	mg/kg	J
				Styrene	0.24	ug/kg	U
				Terphenyl-d14	68	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	0.96	mg/kg	U
				Toluene	0.25	ug/kg	U
				Toluene-d8	98	%	
				trans-1,2-Dichloroethene	0.4	ug/kg	U
				trans-1,3-Dichloropropene	0.48	ug/kg	U
				Trichloroethene	0.33	ug/kg	U
				Trichlorofluoromethane	0.26	ug/kg	U
				Vanadium	18	mg/kg	
				Vinyl chloride	0.26	ug/kg	U
				Xylenes (total)	0.64	ug/kg	U
				Zinc	34	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.67	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	84	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	59	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	62	ug/kg	U
				2,4-Dimethylphenol	43	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	17	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	55	%	
				2-Fluorophenol	56	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	83	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	770	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	95	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	89	ug/kg	
				Aluminum	20000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.58	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.85	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	84	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.72	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-004A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	77	ug/kg	U
				Calcium	25000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.43	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.43	ug/kg	U
				Cobalt	8.7	mg/kg	
				Copper	18	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	95	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	62	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	55	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	18000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	7800	mg/kg	
				Manganese	300	mg/kg	
				Methylene chloride	2.8	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	17	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	56	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	71	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	58	%	
				Potassium	3100	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	800	mg/kg	
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	70	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	93	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	44	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.67	ug/kg	U
				Zinc	51	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-004B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.3	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.65	ug/kg	U
				1,1,2-Trichloroethane	0.37	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.36	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	39	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	85	%	
				1,2-Dichloroethene (total)	0.35	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	36	ug/kg	U
				1,4-Dichlorobenzene	39	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	64	%	
				2,4,6-Trichlorophenol	46	ug/kg	U
				2,4-Dichlorophenol	61	ug/kg	U
				2,4-Dimethylphenol	42	ug/kg	U
				2,4-Dinitrophenol	430	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.2	ug/kg	U
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	39	ug/kg	U
				2-Fluorobiphenyl	63	%	
				2-Fluorophenol	63	%	
				2-Methylnaphthalene	36	ug/kg	U
				2-Methylphenol	47	ug/kg	U
				2-Nitroaniline	39	ug/kg	U
				2-Nitrophenol	47	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	99	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	88	%	
				4-Bromophenyl phenyl ether	30	ug/kg	U
				4-Chloro-3-methylphenol	39	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	44	ug/kg	U
				4-Methylphenol	62	ug/kg	U
				4-Nitroaniline	750	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	102	%	
				Acenaphthene	35	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	11	ug/kg	J
				Aluminum	6600	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.53	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	46	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	30	ug/kg	U
				Benzo(k)fluoranthene	36	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	97	ug/kg	U
				Beryllium	0.39	mg/kg	J
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	82	ug/kg	U
				Bromochloromethane	0.39	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.3	ug/kg	U
				Bromomethane	0.7	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-004B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	75	ug/kg	U
				Calcium	2400	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.42	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.42	ug/kg	U
				Cobalt	4.2	mg/kg	
				Copper	8	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	41	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	100	%	
				Diethyl phthalate	35	ug/kg	U
				Dimethyl phthalate	46	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	61	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	39	ug/kg	U
				Hexachlorobenzene	41	ug/kg	U
				Hexachlorobutadiene	54	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	50	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	12000	mg/kg	B
				Isophorone	39	ug/kg	U
				Magnesium	1700	mg/kg	
				Manganese	120	mg/kg	
				Methylene chloride	2.7	ug/kg	J B
				Naphthalene	36	ug/kg	U
				Nickel	8.6	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	63	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	72	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	14	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	65	%	
				Potassium	760	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	230	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	82	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	1.3	mg/kg	J
				Toluene	0.26	ug/kg	U
				Toluene-d8	97	%	
				trans-1,2-Dichloroethene	0.41	ug/kg	U
				trans-1,3-Dichloropropene	0.49	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	18	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.65	ug/kg	U
				Zinc	25	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-005A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	90	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	17	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	63	%	
				2-Fluorophenol	62	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	49	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	49	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	88	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	94	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	100	ug/kg	
				Aluminum	15000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.43	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.68	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	85	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-005A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	10000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	5.7	mg/kg	
				Copper	19	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	102	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	16000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	4400	mg/kg	
				Manganese	280	mg/kg	
				Methylene chloride	3.2	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	13	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	62	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	76	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	18	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	66	%	
				Potassium	3300	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	590	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	77	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	97	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	32	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	56	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-005B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.24	ug/kg	U
				1,1,1-Trichloroethane	0.29	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.63	ug/kg	U
				1,1,2-Trichloroethane	0.36	ug/kg	U
				1,1-Dichloroethane	0.24	ug/kg	U
				1,1-Dichloroethene	0.35	ug/kg	U
				1,2,4-Trichlorobenzene	28	ug/kg	U
				1,2-Dichlorobenzene	37	ug/kg	U
				1,2-Dichloroethane	0.25	ug/kg	U
				1,2-Dichloroethane-d4	81	%	
				1,2-Dichloroethene (total)	0.34	ug/kg	U
				1,2-Dichloropropane	0.25	ug/kg	U
				1,3-Dichlorobenzene	35	ug/kg	U
				1,4-Dichlorobenzene	37	ug/kg	U
				2,4,5-Trichlorophenol	30	ug/kg	U
				2,4,6-Tribromophenol	57	%	
				2,4,6-Trichlorophenol	44	ug/kg	U
				2,4-Dichlorophenol	59	ug/kg	U
				2,4-Dimethylphenol	41	ug/kg	U
				2,4-Dinitrophenol	420	ug/kg	U
				2,4-Dinitrotoluene	180	ug/kg	U
				2,6-Dinitrotoluene	180	ug/kg	U
				2-Butanone (MEK)	3	ug/kg	U
				2-Chloronaphthalene	38	ug/kg	U
				2-Chlorophenol	37	ug/kg	U
				2-Fluorobiphenyl	58	%	
				2-Fluorophenol	58	%	
				2-Methylnaphthalene	35	ug/kg	U
				2-Methylphenol	45	ug/kg	U
				2-Nitroaniline	37	ug/kg	U
				2-Nitrophenol	45	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	96	ug/kg	U
				4,6-Dinitro-2-methylphenol	180	ug/kg	U
				4-Bromofluorobenzene	84	%	
				4-Bromophenyl phenyl ether	29	ug/kg	U
				4-Chloro-3-methylphenol	37	ug/kg	U
				4-Chloroaniline	120	ug/kg	U
				4-Chlorophenyl phenyl ether	43	ug/kg	U
				4-Methylphenol	60	ug/kg	U
				4-Nitroaniline	720	ug/kg	U
				4-Nitrophenol	280	ug/kg	U
				a,a,a-Trifluorotoluene	98	%	
				Acenaphthene	34	ug/kg	U
				Acenaphthylene	30	ug/kg	U
				Acetone	5.5	ug/kg	J
				Aluminum	6100	mg/kg	
				Anthracene	26	ug/kg	U
				Antimony	0.29	mg/kg	U
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	27	ug/kg	U
				Benzo(a)pyrene	44	ug/kg	U
				Benzo(b)fluoranthene	32	ug/kg	U
				Benzo(ghi)perylene	29	ug/kg	U
				Benzo(k)fluoranthene	35	ug/kg	U
				Benzoic acid	320	ug/kg	U
				Benzyl alcohol	94	ug/kg	U
				Beryllium	0.41	mg/kg	J
				bis(2-Chloroethoxy)methane	38	ug/kg	U
				bis(2-Chloroethyl) ether	27	ug/kg	U
				bis(2-Chloroisopropyl) ether	32	ug/kg	U
				bis(2-Ethylhexyl) phthalate	79	ug/kg	U
				Bromochloromethane	0.37	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.29	ug/kg	U
				Bromomethane	0.68	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-005B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	72	ug/kg	U
				Calcium	7100	mg/kg	B
				Carbon tetrachloride	0.28	ug/kg	U
				Chlorobenzene	0.2	ug/kg	U
				Chloroethane	0.26	ug/kg	U
				Chloroform	0.28	ug/kg	U
				Chloromethane	0.41	ug/kg	U
				Chrysene	30	ug/kg	U
				cis-1,2-Dichloroethene	0.24	ug/kg	U
				cis-1,3-Dichloropropene	0.41	ug/kg	U
				Cobalt	3	mg/kg	
				Copper	8.3	mg/kg	B
				Dibenz(a,h)anthracene	27	ug/kg	U
				Dibenzofuran	39	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	97	%	
				Diethyl phthalate	34	ug/kg	U
				Dimethyl phthalate	44	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	59	ug/kg	U
				Ethylbenzene	0.3	ug/kg	U
				Fluoranthene	25	ug/kg	U
				Fluorene	37	ug/kg	U
				Hexachlorobenzene	39	ug/kg	U
				Hexachlorobutadiene	52	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	48	ug/kg	U
				Indeno(1,2,3-cd)pyrene	25	ug/kg	U
				Iron	9300	mg/kg	B
				Isophorone	37	ug/kg	U
				Magnesium	1900	mg/kg	
				Manganese	78	mg/kg	
				Methylene chloride	2.9	ug/kg	J B
				Naphthalene	35	ug/kg	U
				Nickel	7.5	mg/kg	
				Nitrobenzene	38	ug/kg	U
				Nitrobenzene-d5	60	%	
				N-Nitrosodi-n-propylamine	25	ug/kg	U
				N-Nitrosodiphenylamine	30	ug/kg	U
				o-Terphenyl	73	%	
				Pentachlorophenol	120	ug/kg	U
				Percent Moisture	11	%	
				Phenanthrene	38	ug/kg	U
				Phenol	38	ug/kg	U
				Phenol-d5	60	%	
				Potassium	840	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	170	mg/kg	J
				Styrene	0.24	ug/kg	U
				Terphenyl-d14	74	%	
				Tetrachloroethene	0.28	ug/kg	U
				Thallium	0.95	mg/kg	U
				Toluene	0.25	ug/kg	U
				Toluene-d8	93	%	
				trans-1,2-Dichloroethene	0.39	ug/kg	U
				trans-1,3-Dichloropropene	0.47	ug/kg	U
				Trichloroethene	0.33	ug/kg	U
				Trichlorofluoromethane	0.26	ug/kg	U
				Vanadium	15	mg/kg	
				Vinyl chloride	0.26	ug/kg	U
				Xylenes (total)	0.63	ug/kg	U
				Zinc	26	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-006A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	95	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	64	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	43	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	8.3	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	61	%	
				2-Fluorophenol	62	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	93	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	770	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	85	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	54	ug/kg	
				Aluminum	16000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.33	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.75	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	84	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.72	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-006A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	77	ug/kg	U
				Calcium	19000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.43	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.43	ug/kg	U
				Cobalt	7.3	mg/kg	
				Copper	16	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	102	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	55	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	18000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	6000	mg/kg	
				Manganese	320	mg/kg	
				Methylene chloride	2.2	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	15	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	61	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	71	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	63	%	
				Potassium	2500	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	1200	mg/kg	
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	81	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	98	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	44	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	47	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-006B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.24	ug/kg	U
				1,1,1-Trichloroethane	0.3	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.64	ug/kg	U
				1,1,2-Trichloroethane	0.37	ug/kg	U
				1,1-Dichloroethane	0.24	ug/kg	U
				1,1-Dichloroethene	0.36	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	38	ug/kg	U
				1,2-Dichloroethane	0.25	ug/kg	U
				1,2-Dichloroethane-d4	86	%	
				1,2-Dichloroethene (total)	0.34	ug/kg	U
				1,2-Dichloropropane	0.25	ug/kg	U
				1,3-Dichlorobenzene	36	ug/kg	U
				1,4-Dichlorobenzene	38	ug/kg	U
				2,4,5-Trichlorophenol	31	ug/kg	U
				2,4,6-Tribromophenol	57	%	
				2,4,6-Trichlorophenol	45	ug/kg	U
				2,4-Dichlorophenol	60	ug/kg	U
				2,4-Dimethylphenol	41	ug/kg	U
				2,4-Dinitrophenol	420	ug/kg	U
				2,4-Dinitrotoluene	180	ug/kg	U
				2,6-Dinitrotoluene	180	ug/kg	U
				2-Butanone (MEK)	3.1	ug/kg	U
				2-Chloronaphthalene	39	ug/kg	U
				2-Chlorophenol	38	ug/kg	U
				2-Fluorobiphenyl	56	%	
				2-Fluorophenol	57	%	
				2-Methylnaphthalene	36	ug/kg	U
				2-Methylphenol	46	ug/kg	U
				2-Nitroaniline	38	ug/kg	U
				2-Nitrophenol	46	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	97	ug/kg	U
				4,6-Dinitro-2-methylphenol	180	ug/kg	U
				4-Bromofluorobenzene	87	%	
				4-Bromophenyl phenyl ether	30	ug/kg	U
				4-Chloro-3-methylphenol	38	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	44	ug/kg	U
				4-Methylphenol	61	ug/kg	U
				4-Nitroaniline	730	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	101	%	
				Acenaphthene	34	ug/kg	U
				Acenaphthylene	31	ug/kg	U
				Acetone	8.4	ug/kg	J
				Aluminum	8400	mg/kg	
				Anthracene	26	ug/kg	U
				Antimony	0.62	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	45	ug/kg	U
				Benzo(b)fluoranthene	32	ug/kg	U
				Benzo(ghi)perylene	30	ug/kg	U
				Benzo(k)fluoranthene	36	ug/kg	U
				Benzoic acid	320	ug/kg	U
				Benzyl alcohol	95	ug/kg	U
				Beryllium	0.47	mg/kg	J
				bis(2-Chloroethoxy)methane	39	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	32	ug/kg	U
				bis(2-Ethylhexyl) phthalate	80	ug/kg	U
				Bromochloromethane	0.38	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.3	ug/kg	U
				Bromomethane	0.69	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-006B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	73	ug/kg	U
				Calcium	2500	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.26	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.41	ug/kg	U
				Chrysene	31	ug/kg	U
				cis-1,2-Dichloroethene	0.24	ug/kg	U
				cis-1,3-Dichloropropene	0.41	ug/kg	U
				Cobalt	5.1	mg/kg	
				Copper	7.9	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	40	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	98	%	
				Diethyl phthalate	34	ug/kg	U
				Dimethyl phthalate	45	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	60	ug/kg	U
				Ethylbenzene	0.31	ug/kg	U
				Fluoranthene	25	ug/kg	U
				Fluorene	38	ug/kg	U
				Hexachlorobenzene	40	ug/kg	U
				Hexachlorobutadiene	53	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	49	ug/kg	U
				Indeno(1,2,3-cd)pyrene	25	ug/kg	U
				Iron	12000	mg/kg	B
				Isophorone	38	ug/kg	U
				Magnesium	2000	mg/kg	
				Manganese	310	mg/kg	
				Methylene chloride	2.6	ug/kg	J B
				Naphthalene	36	ug/kg	U
				Nickel	11	mg/kg	
				Nitrobenzene	39	ug/kg	U
				Nitrobenzene-d5	56	%	
				N-Nitrosodi-n-propylamine	25	ug/kg	U
				N-Nitrosodiphenylamine	31	ug/kg	U
				o-Terphenyl	70	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	13	%	
				Phenanthrene	39	ug/kg	U
				Phenol	39	ug/kg	U
				Phenol-d5	58	%	
				Potassium	900	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	280	mg/kg	J
				Styrene	0.24	ug/kg	U
				Terphenyl-d14	65	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	0.96	mg/kg	U
				Toluene	0.25	ug/kg	U
				Toluene-d8	96	%	
				trans-1,2-Dichloroethene	0.4	ug/kg	U
				trans-1,3-Dichloropropene	0.48	ug/kg	U
				Trichloroethene	0.33	ug/kg	U
				Trichlorofluoromethane	0.26	ug/kg	U
				Vanadium	17	mg/kg	
				Vinyl chloride	0.26	ug/kg	U
				Xylenes (total)	0.64	ug/kg	U
				Zinc	31	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-007A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.24	ug/kg	U
				1,1,1-Trichloroethane	0.3	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.65	ug/kg	U
				1,1,2-Trichloroethane	0.37	ug/kg	U
				1,1-Dichloroethane	0.24	ug/kg	U
				1,1-Dichloroethene	0.36	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	38	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	81	%	
				1,2-Dichloroethene (total)	0.35	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	36	ug/kg	U
				1,4-Dichlorobenzene	38	ug/kg	U
				2,4,5-Trichlorophenol	31	ug/kg	U
				2,4,6-Tribromophenol	61	%	
				2,4,6-Trichlorophenol	45	ug/kg	U
				2,4-Dichlorophenol	61	ug/kg	U
				2,4-Dimethylphenol	42	ug/kg	U
				2,4-Dinitrophenol	430	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	4.1	ug/kg	J
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	38	ug/kg	U
				2-Fluorobiphenyl	61	%	
				2-Fluorophenol	61	%	
				2-Methylnaphthalene	36	ug/kg	U
				2-Methylphenol	47	ug/kg	U
				2-Nitroaniline	38	ug/kg	U
				2-Nitrophenol	47	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	99	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	84	%	
				4-Bromophenyl phenyl ether	30	ug/kg	U
				4-Chloro-3-methylphenol	38	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	44	ug/kg	U
				4-Methylphenol	62	ug/kg	U
				4-Nitroaniline	750	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	96	%	
				Acenaphthene	35	ug/kg	U
				Acenaphthylene	31	ug/kg	U
				Acetone	30	ug/kg	
				Aluminum	10000	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.3	mg/kg	U
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	45	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	30	ug/kg	U
				Benzo(k)fluoranthene	36	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	97	ug/kg	U
				Beryllium	0.48	mg/kg	J
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	82	ug/kg	U
				Bromochloromethane	0.38	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.3	ug/kg	U
				Bromomethane	0.7	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-007A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	75	ug/kg	U
				Calcium	7200	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.42	ug/kg	U
				Chrysene	31	ug/kg	U
				cis-1,2-Dichloroethene	0.24	ug/kg	U
				cis-1,3-Dichloropropene	0.42	ug/kg	U
				Cobalt	5.7	mg/kg	
				Copper	12	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	41	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	93	%	
				Diethyl phthalate	35	ug/kg	U
				Dimethyl phthalate	45	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	61	ug/kg	U
				Ethylbenzene	0.31	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	38	ug/kg	U
				Hexachlorobenzene	41	ug/kg	U
				Hexachlorobutadiene	54	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	50	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	13000	mg/kg	B
				Isophorone	38	ug/kg	U
				Magnesium	3200	mg/kg	
				Manganese	230	mg/kg	
				Methylene chloride	2.4	ug/kg	J B
				Naphthalene	36	ug/kg	U
				Nickel	9.6	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	61	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	31	ug/kg	U
				o-Terphenyl	72	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	14	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	63	%	
				Potassium	1200	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	630	mg/kg	
				Styrene	0.24	ug/kg	U
				Terphenyl-d14	83	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	1.2	mg/kg	J
				Toluene	0.26	ug/kg	U
				Toluene-d8	96	%	
				trans-1,2-Dichloroethene	0.41	ug/kg	U
				trans-1,3-Dichloropropene	0.49	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	31	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.65	ug/kg	U
				Zinc	31	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-007B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.66	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	39	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	84	%	
				1,2-Dichloroethene (total)	0.35	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	39	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	57	%	
				2,4,6-Trichlorophenol	46	ug/kg	U
				2,4-Dichlorophenol	61	ug/kg	U
				2,4-Dimethylphenol	42	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.2	ug/kg	U
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	39	ug/kg	U
				2-Fluorobiphenyl	54	%	
				2-Fluorophenol	55	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	47	ug/kg	U
				2-Nitroaniline	39	ug/kg	U
				2-Nitrophenol	47	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	91	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	39	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	45	ug/kg	U
				4-Methylphenol	63	ug/kg	U
				4-Nitroaniline	760	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	98	%	
				Acenaphthene	35	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	8.7	ug/kg	J
				Aluminum	10000	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.33	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	46	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	98	ug/kg	U
				Beryllium	0.58	mg/kg	J
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	83	ug/kg	U
				Bromochloromethane	0.39	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.71	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-007B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	76	ug/kg	U
				Calcium	2400	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.42	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.42	ug/kg	U
				Cobalt	3.9	mg/kg	
				Copper	8.1	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	41	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	100	%	
				Diethyl phthalate	35	ug/kg	U
				Dimethyl phthalate	46	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	61	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	39	ug/kg	U
				Hexachlorobenzene	41	ug/kg	U
				Hexachlorobutadiene	54	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	51	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	15000	mg/kg	B
				Isophorone	39	ug/kg	U
				Magnesium	2400	mg/kg	
				Manganese	98	mg/kg	
				Methylene chloride	3.3	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	12	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	56	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	80	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	15	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	56	%	
				Potassium	1200	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	250	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	70	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	0.99	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	101	%	
				trans-1,2-Dichloroethene	0.41	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	18	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.66	ug/kg	U
				Zinc	38	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-008A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.68	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	89	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	61	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	63	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	450	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	19	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	69	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	90	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	64	ug/kg	U
				4-Nitroaniline	780	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	94	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	110	ug/kg	
				Aluminum	16000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.32	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.87	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	85	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.73	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-008A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	78	ug/kg	U
				Calcium	42000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	6	mg/kg	
				Copper	15	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	101	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	63	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	56	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	17000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	6300	mg/kg	
				Manganese	420	mg/kg	
				Methylene chloride	3.1	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	14	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	68	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	78	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	71	%	
				Potassium	2900	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	550	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	80	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	99	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.51	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	37	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.68	ug/kg	U
				Zinc	41	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-008B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.26	ug/kg	U
				1,1,1-Trichloroethane	0.32	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.69	ug/kg	U
				1,1,2-Trichloroethane	0.39	ug/kg	U
				1,1-Dichloroethane	0.26	ug/kg	U
				1,1-Dichloroethene	0.38	ug/kg	U
				1,2,4-Trichlorobenzene	31	ug/kg	U
				1,2-Dichlorobenzene	41	ug/kg	U
				1,2-Dichloroethane	0.27	ug/kg	U
				1,2-Dichloroethane-d4	84	%	
				1,2-Dichloroethene (total)	0.37	ug/kg	U
				1,2-Dichloropropane	0.27	ug/kg	U
				1,3-Dichlorobenzene	38	ug/kg	U
				1,4-Dichlorobenzene	41	ug/kg	U
				2,4,5-Trichlorophenol	33	ug/kg	U
				2,4,6-Tribromophenol	56	%	
				2,4,6-Trichlorophenol	48	ug/kg	U
				2,4-Dichlorophenol	64	ug/kg	U
				2,4-Dimethylphenol	44	ug/kg	U
				2,4-Dinitrophenol	460	ug/kg	U
				2,4-Dinitrotoluene	200	ug/kg	U
				2,6-Dinitrotoluene	200	ug/kg	U
				2-Butanone (MEK)	3.3	ug/kg	U
				2-Chloronaphthalene	42	ug/kg	U
				2-Chlorophenol	41	ug/kg	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	59	%	
				2-Methylnaphthalene	38	ug/kg	U
				2-Methylphenol	49	ug/kg	U
				2-Nitroaniline	41	ug/kg	U
				2-Nitrophenol	49	ug/kg	U
				3,3'-Dichlorobenzidine	120	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	200	ug/kg	U
				4-Bromofluorobenzene	86	%	
				4-Bromophenyl phenyl ether	32	ug/kg	U
				4-Chloro-3-methylphenol	41	ug/kg	U
				4-Chloroaniline	140	ug/kg	U
				4-Chlorophenyl phenyl ether	47	ug/kg	U
				4-Methylphenol	65	ug/kg	U
				4-Nitroaniline	790	ug/kg	U
				4-Nitrophenol	310	ug/kg	U
				a,a,a-Trifluorotoluene	96	%	
				Acenaphthene	37	ug/kg	U
				Acenaphthylene	33	ug/kg	U
				Acetone	6.7	ug/kg	J
				Aluminum	12000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.49	mg/kg	J
				Benzene	0.15	ug/kg	U
				Benzo(a)anthracene	30	ug/kg	U
				Benzo(a)pyrene	48	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	32	ug/kg	U
				Benzo(k)fluoranthene	38	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	100	ug/kg	U
				Beryllium	0.87	mg/kg	
				bis(2-Chloroethoxy)methane	42	ug/kg	U
				bis(2-Chloroethyl) ether	30	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	86	ug/kg	U
				Bromochloromethane	0.41	ug/kg	U
				Bromodichloromethane	0.25	ug/kg	U
				Bromoform	0.32	ug/kg	U
				Bromomethane	0.74	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-008B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	79	ug/kg	U
				Calcium	4800	mg/kg	B
				Carbon tetrachloride	0.31	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.31	ug/kg	U
				Chloromethane	0.44	ug/kg	U
				Chrysene	33	ug/kg	U
				cis-1,2-Dichloroethene	0.26	ug/kg	U
				cis-1,3-Dichloropropene	0.44	ug/kg	U
				Cobalt	10	mg/kg	
				Copper	22	mg/kg	B
				Dibenz(a,h)anthracene	30	ug/kg	U
				Dibenzofuran	43	ug/kg	U
				Dibromochloromethane	0.25	ug/kg	U
				Dibromofluoromethane	94	%	
				Diethyl phthalate	37	ug/kg	U
				Dimethyl phthalate	48	ug/kg	U
				Di-n-butyl phthalate	25	ug/kg	U
				Di-n-octyl phthalate	64	ug/kg	U
				Ethylbenzene	0.33	ug/kg	U
				Fluoranthene	27	ug/kg	U
				Fluorene	41	ug/kg	U
				Hexachlorobenzene	43	ug/kg	U
				Hexachlorobutadiene	57	ug/kg	U
				Hexachlorocyclopentadiene	150	ug/kg	U
				Hexachloroethane	53	ug/kg	U
				Indeno(1,2,3-cd)pyrene	27	ug/kg	U
				Iron	28000	mg/kg	B
				Isophorone	41	ug/kg	U
				Magnesium	3700	mg/kg	
				Manganese	1700	mg/kg	
				Methylene chloride	3.2	ug/kg	J B
				Naphthalene	38	ug/kg	U
				Nickel	29	mg/kg	
				Nitrobenzene	42	ug/kg	U
				Nitrobenzene-d5	61	%	
				N-Nitrosodi-n-propylamine	27	ug/kg	U
				N-Nitrosodiphenylamine	33	ug/kg	U
				o-Terphenyl	65	%	
				Pentachlorophenol	140	ug/kg	U
				Percent Moisture	19	%	
				Phenanthrene	42	ug/kg	U
				Phenol	42	ug/kg	U
				Phenol-d5	62	%	
				Potassium	1400	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	320	mg/kg	J
				Styrene	0.26	ug/kg	U
				Terphenyl-d14	74	%	
				Tetrachloroethene	0.31	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.27	ug/kg	U
				Toluene-d8	94	%	
				trans-1,2-Dichloroethene	0.43	ug/kg	U
				trans-1,3-Dichloropropene	0.52	ug/kg	U
				Trichloroethene	0.36	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	46	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.69	ug/kg	U
				Zinc	65	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-009A	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.3	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.65	ug/kg	U
				1,1,2-Trichloroethane	0.37	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.36	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	39	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	88	%	
				1,2-Dichloroethene (total)	0.35	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	36	ug/kg	U
				1,4-Dichlorobenzene	39	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	57	%	
				2,4,6-Trichlorophenol	46	ug/kg	U
				2,4-Dichlorophenol	61	ug/kg	U
				2,4-Dimethylphenol	42	ug/kg	U
				2,4-Dinitrophenol	430	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	9.1	ug/kg	J
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	39	ug/kg	U
				2-Fluorobiphenyl	65	%	
				2-Fluorophenol	61	%	
				2-Methylnaphthalene	36	ug/kg	U
				2-Methylphenol	47	ug/kg	U
				2-Nitroaniline	39	ug/kg	U
				2-Nitrophenol	47	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	99	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	90	%	
				4-Bromophenyl phenyl ether	30	ug/kg	U
				4-Chloro-3-methylphenol	39	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	44	ug/kg	U
				4-Methylphenol	62	ug/kg	U
				4-Nitroaniline	750	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	100	%	
				Acenaphthene	35	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	59	ug/kg	
				Aluminum	9100	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.3	mg/kg	U
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	46	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	30	ug/kg	U
				Benzo(k)fluoranthene	36	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	97	ug/kg	U
				Beryllium	0.47	mg/kg	J
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	82	ug/kg	U
				Bromochloromethane	0.39	ug/kg	U
				Bromodichloromethane	0.23	ug/kg	U
				Bromoform	0.3	ug/kg	U
				Bromomethane	0.7	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-009A	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	75	ug/kg	U
				Calcium	8200	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.42	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.42	ug/kg	U
				Cobalt	4.7	mg/kg	
				Copper	17	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	41	ug/kg	U
				Dibromochloromethane	0.23	ug/kg	U
				Dibromofluoromethane	102	%	
				Diethyl phthalate	35	ug/kg	U
				Dimethyl phthalate	46	ug/kg	U
				Di-n-butyl phthalate	23	ug/kg	U
				Di-n-octyl phthalate	61	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	39	ug/kg	U
				Hexachlorobenzene	41	ug/kg	U
				Hexachlorobutadiene	54	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	50	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	14000	mg/kg	B
				Isophorone	39	ug/kg	U
				Magnesium	3100	mg/kg	
				Manganese	200	mg/kg	
				Methylene chloride	3	ug/kg	J B
				Naphthalene	36	ug/kg	U
				Nickel	9.7	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	60	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl		%	U NC DIL
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	14	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	63	%	
				Potassium	1300	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	380	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	69	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	0.98	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	101	%	
				trans-1,2-Dichloroethene	0.41	ug/kg	U
				trans-1,3-Dichloropropene	0.49	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	29	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.65	ug/kg	U
				Zinc	40	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-009B	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.67	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	39	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	88	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	39	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	56	%	
				2,4,6-Trichlorophenol	46	ug/kg	U
				2,4-Dichlorophenol	62	ug/kg	U
				2,4-Dimethylphenol	43	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.2	ug/kg	U
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	39	ug/kg	U
				2-Fluorobiphenyl	54	%	
				2-Fluorophenol	53	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	39	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	92	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	39	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	45	ug/kg	U
				4-Methylphenol	63	ug/kg	U
				4-Nitroaniline	760	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	100	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	4	ug/kg	U
				Aluminum	11000	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.31	mg/kg	U
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	46	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	99	ug/kg	U
				Beryllium	0.77	mg/kg	
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	83	ug/kg	U
				Bromochloromethane	0.39	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.71	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P4-009B	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	76	ug/kg	U
				Calcium	4000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.43	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.43	ug/kg	U
				Cobalt	6.2	mg/kg	
				Copper	16	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	102	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	46	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	62	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	39	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	55	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	51	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	20000	mg/kg	B
				Isophorone	39	ug/kg	U
				Magnesium	3200	mg/kg	
				Manganese	200	mg/kg	
				Methylene chloride	2.4	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	15	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	55	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	74	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	16	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	57	%	
				Potassium	1300	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	310	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	65	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	100	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	27	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.67	ug/kg	U
				Zinc	56	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-900A * (* Note: This sample is a split sample of A1-VBC-P4-005A)	Phase 4	0-10	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.67	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	30	ug/kg	U
				1,2-Dichlorobenzene	40	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	85	%	
				1,2-Dichloroethene (total)	0.36	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	40	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	47	ug/kg	U
				2,4-Dichlorophenol	62	ug/kg	U
				2,4-Dimethylphenol	43	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	22	ug/kg	J
				2-Chloronaphthalene	41	ug/kg	U
				2-Chlorophenol	40	ug/kg	U
				2-Fluorobiphenyl	61	%	
				2-Fluorophenol	57	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	48	ug/kg	U
				2-Nitroaniline	40	ug/kg	U
				2-Nitrophenol	48	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	80	%	
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	40	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	46	ug/kg	U
				4-Methylphenol	63	ug/kg	U
				4-Nitroaniline	770	ug/kg	U
				4-Nitrophenol	300	ug/kg	U
				a,a,a-Trifluorotoluene	96	%	
				Acenaphthene	36	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	100	ug/kg	
				Aluminum	18000	mg/kg	
				Anthracene	28	ug/kg	U
				Antimony	0.41	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	29	ug/kg	U
				Benzo(a)pyrene	47	ug/kg	U
				Benzo(b)fluoranthene	34	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	340	ug/kg	U
				Benzyl alcohol	99	ug/kg	U
				Beryllium	0.88	mg/kg	
				bis(2-Chloroethoxy)methane	41	ug/kg	U
				bis(2-Chloroethyl) ether	29	ug/kg	U
				bis(2-Chloroisopropyl) ether	34	ug/kg	U
				bis(2-Ethylhexyl) phthalate	84	ug/kg	U
				Bromochloromethane	0.4	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.72	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-900A * (* Note: This sample is a split sample of A1-VBC-P4-005A)	Phase 4	0-10	3/21/2005	Butyl benzyl phthalate	77	ug/kg	U
				Calcium	23000	mg/kg	B
				Carbon tetrachloride	0.3	ug/kg	U
				Chlorobenzene	0.22	ug/kg	U
				Chloroethane	0.28	ug/kg	U
				Chloroform	0.3	ug/kg	U
				Chloromethane	0.43	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.43	ug/kg	U
				Cobalt	8	mg/kg	
				Copper	18	mg/kg	B
				Dibenz(a,h)anthracene	29	ug/kg	U
				Dibenzofuran	42	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	94	%	
				Diethyl phthalate	36	ug/kg	U
				Dimethyl phthalate	47	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	62	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	40	ug/kg	U
				Hexachlorobenzene	42	ug/kg	U
				Hexachlorobutadiene	55	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	52	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	21000	mg/kg	B
				Isophorone	40	ug/kg	U
				Magnesium	6500	mg/kg	
				Manganese	190	mg/kg	
				Methylene chloride	3	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	14	mg/kg	
				Nitrobenzene	41	ug/kg	U
				Nitrobenzene-d5	57	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	52	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	17	%	
				Phenanthrene	41	ug/kg	U
				Phenol	41	ug/kg	U
				Phenol-d5	58	%	
				Potassium	2100	mg/kg	
				Pyrene	160	ug/kg	U
				Sodium	840	mg/kg	
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	77	%	
				Tetrachloroethene	0.3	ug/kg	U
				Thallium	1	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	98	%	
				trans-1,2-Dichloroethene	0.42	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.35	ug/kg	U
				Trichlorofluoromethane	0.28	ug/kg	U
				Vanadium	41	mg/kg	
				Vinyl chloride	0.28	ug/kg	U
				Xylenes (total)	0.67	ug/kg	U
				Zinc	53	mg/kg	

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-900B ** (** Note: This sample is a split sample of A1-VBC-P4-005B)	Phase 4	10-20	3/21/2005	1,1,1,2-Tetrachloroethane	0.25	ug/kg	U
				1,1,1-Trichloroethane	0.31	ug/kg	U
				1,1,2,2-Tetrachloroethane	0.66	ug/kg	U
				1,1,2-Trichloroethane	0.38	ug/kg	U
				1,1-Dichloroethane	0.25	ug/kg	U
				1,1-Dichloroethene	0.37	ug/kg	U
				1,2,4-Trichlorobenzene	29	ug/kg	U
				1,2-Dichlorobenzene	39	ug/kg	U
				1,2-Dichloroethane	0.26	ug/kg	U
				1,2-Dichloroethane-d4	74	%	
				1,2-Dichloroethene (total)	0.35	ug/kg	U
				1,2-Dichloropropane	0.26	ug/kg	U
				1,3-Dichlorobenzene	37	ug/kg	U
				1,4-Dichlorobenzene	39	ug/kg	U
				2,4,5-Trichlorophenol	32	ug/kg	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	46	ug/kg	U
				2,4-Dichlorophenol	61	ug/kg	U
				2,4-Dimethylphenol	42	ug/kg	U
				2,4-Dinitrophenol	440	ug/kg	U
				2,4-Dinitrotoluene	190	ug/kg	U
				2,6-Dinitrotoluene	190	ug/kg	U
				2-Butanone (MEK)	3.2	ug/kg	U
				2-Chloronaphthalene	40	ug/kg	U
				2-Chlorophenol	39	ug/kg	U
				2-Fluorobiphenyl	66	%	
				2-Fluorophenol	67	%	
				2-Methylnaphthalene	37	ug/kg	U
				2-Methylphenol	47	ug/kg	U
				2-Nitroaniline	39	ug/kg	U
				2-Nitrophenol	47	ug/kg	U
				3,3'-Dichlorobenzidine	110	ug/kg	U
				3-Nitroaniline	100	ug/kg	U
				4,6-Dinitro-2-methylphenol	190	ug/kg	U
				4-Bromofluorobenzene	74	%	*
				4-Bromophenyl phenyl ether	31	ug/kg	U
				4-Chloro-3-methylphenol	39	ug/kg	U
				4-Chloroaniline	130	ug/kg	U
				4-Chlorophenyl phenyl ether	45	ug/kg	U
				4-Methylphenol	62	ug/kg	U
				4-Nitroaniline	750	ug/kg	U
				4-Nitrophenol	290	ug/kg	U
				a,a,a-Trifluorotoluene	104	%	
				Acenaphthene	35	ug/kg	U
				Acenaphthylene	32	ug/kg	U
				Acetone	6.9	ug/kg	J
				Aluminum	11000	mg/kg	
				Anthracene	27	ug/kg	U
				Antimony	0.39	mg/kg	J
				Benzene	0.14	ug/kg	U
				Benzo(a)anthracene	28	ug/kg	U
				Benzo(a)pyrene	46	ug/kg	U
				Benzo(b)fluoranthene	33	ug/kg	U
				Benzo(ghi)perylene	31	ug/kg	U
				Benzo(k)fluoranthene	37	ug/kg	U
				Benzoic acid	330	ug/kg	U
				Benzyl alcohol	98	ug/kg	U
				Beryllium	0.7	mg/kg	
				bis(2-Chloroethoxy)methane	40	ug/kg	U
				bis(2-Chloroethyl) ether	28	ug/kg	U
				bis(2-Chloroisopropyl) ether	33	ug/kg	U
				bis(2-Ethylhexyl) phthalate	83	ug/kg	U
				Bromochloromethane	0.39	ug/kg	U
				Bromodichloromethane	0.24	ug/kg	U
				Bromoform	0.31	ug/kg	U
				Bromomethane	0.71	ug/kg	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-900B ** (** Note: This sample is a split sample of A1-VBC-P4-005B)	Phase 4	10-20	3/21/2005	Butyl benzyl phthalate	75	ug/kg	U
				Calcium	6900	mg/kg	B
				Carbon tetrachloride	0.29	ug/kg	U
				Chlorobenzene	0.21	ug/kg	U
				Chloroethane	0.27	ug/kg	U
				Chloroform	0.29	ug/kg	U
				Chloromethane	0.42	ug/kg	U
				Chrysene	32	ug/kg	U
				cis-1,2-Dichloroethene	0.25	ug/kg	U
				cis-1,3-Dichloropropene	0.42	ug/kg	U
				Cobalt	3.9	mg/kg	
				Copper	10	mg/kg	B
				Dibenz(a,h)anthracene	28	ug/kg	U
				Dibenzofuran	41	ug/kg	U
				Dibromochloromethane	0.24	ug/kg	U
				Dibromofluoromethane	86	%	
				Diethyl phthalate	35	ug/kg	U
				Dimethyl phthalate	46	ug/kg	U
				Di-n-butyl phthalate	24	ug/kg	U
				Di-n-octyl phthalate	61	ug/kg	U
				Ethylbenzene	0.32	ug/kg	U
				Fluoranthene	26	ug/kg	U
				Fluorene	39	ug/kg	U
				Hexachlorobenzene	41	ug/kg	U
				Hexachlorobutadiene	54	ug/kg	U
				Hexachlorocyclopentadiene	140	ug/kg	U
				Hexachloroethane	51	ug/kg	U
				Indeno(1,2,3-cd)pyrene	26	ug/kg	U
				Iron	16000	mg/kg	B
				Isophorone	39	ug/kg	U
				Magnesium	3000	mg/kg	
				Manganese	110	mg/kg	
				Methylene chloride	2.4	ug/kg	J B
				Naphthalene	37	ug/kg	U
				Nickel	13	mg/kg	
				Nitrobenzene	40	ug/kg	U
				Nitrobenzene-d5	67	%	
				N-Nitrosodi-n-propylamine	26	ug/kg	U
				N-Nitrosodiphenylamine	32	ug/kg	U
				o-Terphenyl	67	%	
				Pentachlorophenol	130	ug/kg	U
				Percent Moisture	15	%	
				Phenanthrene	40	ug/kg	U
				Phenol	40	ug/kg	U
				Phenol-d5	68	%	
				Potassium	1300	mg/kg	
				Pyrene	150	ug/kg	U
				Sodium	280	mg/kg	J
				Styrene	0.25	ug/kg	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.29	ug/kg	U
				Thallium	0.99	mg/kg	U
				Toluene	0.26	ug/kg	U
				Toluene-d8	82	%	
				trans-1,2-Dichloroethene	0.41	ug/kg	U
				trans-1,3-Dichloropropene	0.5	ug/kg	U
				Trichloroethene	0.34	ug/kg	U
				Trichlorofluoromethane	0.27	ug/kg	U
				Vanadium	24	mg/kg	
				Vinyl chloride	0.27	ug/kg	U
				Xylenes (total)	0.66	ug/kg	U
				Zinc	44	mg/kg	

VAN BIBBER CREEK
SEGMENT 2

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RADIOLOGICAL SOIL SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-VBC-S2A-001C	Segment 2	0-20	5/16/2005	0.90	0.06	0.05	-1.48	4.24	5.98	-0.08	0.26	0.36	0.62	0.33	0.54
A1-VBC-S2A-002C	Segment 2	0-20	5/16/2005	1.03	0.07	0.06	-0.21	3.84	5.89	-0.05	0.27	0.36	0.68	0.38	0.62
A1-VBC-S2A-003C	Segment 2	0-20	5/16/2005	0.91	0.06	0.06	-8.37	4.72	5.92	0.08	0.26	0.36	0.65	0.29	0.48
A1-VBC-S2A-004C	Segment 2	0-20	5/16/2005	0.94	0.06	0.06	-8.08	4.66	5.85	0.07	0.25	0.35	0.71	0.32	0.52
A1-VBC-S2A-005C	Segment 2	0-20	5/16/2005	0.74	0.05	0.05	-1.57	4.13	5.84	-0.08	0.26	0.35	0.71	0.35	0.58
A1-VBC-S2A-006C	Segment 2	0-20	5/16/2005	1.18	0.07	0.05	-2.41	3.79	5.78	0.23	0.25	0.35	0.95	0.36	0.61
A1-VBC-QC-901C *	Segment 2	0-20	5/16/2005	0.95	0.06	0.05	-8.18	4.68	5.89	0.06	0.25	0.35	0.98	0.32	0.51

NOTES

*** A1-VBC-QC-901C sample is a split sample of A1-VBC-S2A-001C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR SEGMENT 2, ALL VAN BIBBER CREEK SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE VAN BIBBER CREEK MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RCRA METALS SOIL SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				**160**	**5,400**	**99.5**	**53.94**	**540**	**17.66**	**390**	**490**	**390**
A1-VBC-S2A-001A	Segment 2	0-10	5/16/2005	3.4	130	0.40	25.0	8.0	0.0056	1.10	1.00	0.570
A1-VBC-S2A-001B		10-20		4.9	180	0.53	34.0	14.0	0.0059	1.10	1.10	0.600
A1-VBC-S2A-002A	Segment 2	0-10	5/16/2005	3.7	130	0.43	26.0	8.0	0.0056	0.95	1.00	0.570
A1-VBC-S2A-002B		10-20		4.1	200	0.44	28.0	10.0	0.0059	1.30	1.10	0.600
A1-VBC-S2A-003A	Segment 2	0-10	5/16/2005	3.2	190	0.42	22.0	7.4	0.0054	1.40	0.98	0.550
A1-VBC-S2A-003B		10-20		5.0	110	0.35	18.0	8.4	0.0061	0.79	1.10	0.620
A1-VBC-S2A-004A	Segment 2	0-10	5/16/2005	3.4	130	0.34	21.0	8.3	0.0053	0.75	0.98	0.540
A1-VBC-S2A-004B		10-20		5.2	170	0.58	43.0	13.0	0.0097	0.78	1.30	0.610
A1-VBC-S2A-005A	Segment 2	0-10	5/16/2005	2.4	86	0.25	14.0	5.9	0.0053	0.52	0.98	0.550
A1-VBC-S2A-005B		10-20		3.1	130	0.46	29.0	11.0	0.0059	0.59	1.10	0.600
A1-VBC-S2A-006A	Segment 2	0-10	5/16/2005	11.0	170	1.60	29.0	71.0	0.0970	1.20	1.20	0.880
A1-VBC-S2A-006B		10-20		10.0	200	0.51	32.0	13.0	0.0063	1.20	1.10	0.640
A1-VBC-QC-901A **	Segment 2	0-10	5/16/2005	3.4	150	0.36	18.0	6.9	0.0054	0.74	0.98	0.550
A1-VBC-QC-901B ***		10-20		4.4	140	0.51	33.0	11.0	0.0110	0.80	1.10	0.600

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:**
Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.
**** A1-VBC-QC-901A sample is a split sample of A1-VBC-S2A-003A.**
***** A1-VBC-QC-901B sample is a split sample of A1-VBC-S2A-005B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK TPH-DRO AND TPH-GRO SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-VBC-S2A-001A	Segment 2	0-10	5/16/2005	1.9	0.30
A1-VBC-S2A-001B		10-20		2.0	0.31
A1-VBC-S2A-002A	Segment 2	0-10	5/16/2005	1.9	0.30
A1-VBC-S2A-002B		10-20		2.0	0.31
A1-VBC-S2A-003A	Segment 2	0-10	5/16/2005	1.8	0.72
A1-VBC-S2A-003B		10-20		2.1	0.32
A1-VBC-S2A-004A	Segment 2	0-10	5/16/2005	1.8	0.28
A1-VBC-S2A-004B		10-20		2.0	0.78
A1-VBC-S2A-005A	Segment 2	0-10	5/16/2005	1.8	0.36
A1-VBC-S2A-005B		10-20		2.0	0.31
A1-VBC-S2A-006A	Segment 2	0-10	5/16/2005	2.6	20.00
A1-VBC-S2A-006B		10-20		2.1	0.33
A1-VBC-QC-901A *	Segment 2	0-10	5/16/2005	1.8	0.29
A1-VBC-QC-901B **		10-20		2.0	0.31

NOTES

*** A1-VBC-QC-901A sample is a split sample of A1-VBC-S2A-003A.**

**** A1-VBC-QC-901B sample is a split sample of A1-VBC-S2A-005B.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-S2A-002A	Segment 2	0-10	5/16/2005	4,4'-DDD	0.38	U
				4,4'-DDE	0.40	U
				4,4'-DDT	0.60	U
				Aldrin	0.48	U
				alpha-BHC	0.49	U
				alpha-Chlordane	0.42	U
				beta-BHC	0.90	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.54	U
				Dieldrin	0.43	U
				Endosulfan I	0.50	U
				Endosulfan II	0.44	U
				Endosulfan sulfate	0.50	U
				Endrin	0.44	U
				Endrin aldehyde	0.57	U
				Endrin ketone	0.44	U
				gamma-BHC (Lindane)	0.49	U
				gamma-Chlordane	0.42	U
				Heptachlor	0.67	U
				Heptachlor epoxide	0.43	U
				Methoxychlor	0.74	U
				Toxaphene	26.00	U
A1-VBC-S2A-005B	Segment 2	10-20	5/16/2005	4,4'-DDD	0.40	U
				4,4'-DDE	0.42	U
				4,4'-DDT	0.63	U
				Aldrin	0.50	U
				alpha-BHC	0.52	U
				alpha-Chlordane	0.44	U
				beta-BHC	0.94	U
				Chlordane (technical)	3.80	U
				delta-BHC	0.57	U
				Dieldrin	0.45	U
				Endosulfan I	0.53	U
				Endosulfan II	0.47	U
				Endosulfan sulfate	0.53	U
				Endrin	0.47	U
				Endrin aldehyde	0.60	U
				Endrin ketone	0.47	U
				gamma-BHC (Lindane)	0.52	U
				gamma-Chlordane	0.44	U
				Heptachlor	0.71	U
				Heptachlor epoxide	0.45	U
				Methoxychlor	0.78	U
				Toxaphene	28.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-QC-901B *	Segment 2	10-20	5/16/2005	4,4'-DDD	0.40	U
				4,4'-DDE	0.41	U
				4,4'-DDT	0.62	U
				Aldrin	0.50	U
				alpha-BHC	0.51	U
				alpha-Chlordane	0.43	U
				beta-BHC	0.93	U
				Chlordane (technical)	3.70	U
				delta-BHC	0.56	U
				Dieldrin	0.45	U
				Endosulfan I	0.52	U
				Endosulfan II	0.46	U
				Endosulfan sulfate	0.52	U
				Endrin	0.46	U
				Endrin aldehyde	0.60	U
				Endrin ketone	0.46	U
				gamma-BHC (Lindane)	0.51	U
				gamma-Chlordane	0.43	U
				Heptachlor	0.70	U
				Heptachlor epoxide	0.45	U
				Methoxychlor	0.77	U
				Toxaphene	27.00	U

NOTES

*** A1-VBC-QC-901B sample is a split sample of A1-VBC-S2A-005B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PCBs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-002A	Segment 2	0-10	5/16/2005	Aroclor 1016	5.3	ug/kg	U
				Aroclor 1221	4.0	ug/kg	U
				Aroclor 1232	5.1	ug/kg	U
				Aroclor 1242	10.0	ug/kg	U
				Aroclor 1248	4.2	ug/kg	U
				Aroclor 1254	7.9	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	97.0	%	
				Decachlorobiphenyl	86.0	%	
				Tetrachloro-m-xylene	94.0	%	
				Tetrachloro-m-xylene	88.0	%	
A1-VBC-S2A-005B	Segment 2	10-20	5/16/2005	Aroclor 1016	5.5	ug/kg	U
				Aroclor 1221	4.2	ug/kg	U
				Aroclor 1232	5.4	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.4	ug/kg	U
				Aroclor 1254	8.3	ug/kg	U
				Aroclor 1260	1.8	ug/kg	U
				Decachlorobiphenyl	94.0	%	
				Decachlorobiphenyl	84.0	%	
				Tetrachloro-m-xylene	87.0	%	
				Tetrachloro-m-xylene	87.0	%	
A1-VBC-QC-901B *	Segment 2	10-20	5/16/2005	Aroclor 1016	5.5	ug/kg	U
				Aroclor 1221	4.1	ug/kg	U
				Aroclor 1232	5.3	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.3	ug/kg	U
				Aroclor 1254	8.2	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	96.0	%	
				Decachlorobiphenyl	78.0	%	
				Tetrachloro-m-xylene	84.0	%	
				Tetrachloro-m-xylene	83.0	%	

NOTES

*** A1-VBC-QC-901B sample is a split sample of A1-VBC-S2A-005B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-001A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.021	mg/L	J
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	76	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	99	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	79	%	
				o-Terphenyl	88	%	
				Pentachlorophenol	0.036	mg/L	J
				Percent Moisture	16	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	77	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	99	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-001B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	85	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	76	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	96	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	78	%	
				o-Terphenyl	80	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	71	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	82	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-002A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	86	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	77	%	
				2-Fluorophenol	79	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	68	%	
				o-Terphenyl	88	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	73	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-002B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	90	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	72	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	63	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	99	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	70	%	
				o-Terphenyl	86	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	59	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	82	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-003A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	86	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	64	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	99	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	76	%	
				o-Terphenyl	75	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	12	%	
				Phenol-d5	63	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	65	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-003B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	83	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	78	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	79	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	89	%	
				a,a,a-Trifluorotoluene	93	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	96	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	81	%	
				o-Terphenyl	77	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	23	%	
				Phenol-d5	73	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	83	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-004A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	88	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	73	%	
				2-Fluorophenol	73	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	96	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	65	%	
				o-Terphenyl	87	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	12	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-004B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	90	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	88	%	
				o-Terphenyl	81	%	
				Pentachlorophenol	0.031	mg/L	J
				Percent Moisture	21	%	
				Phenol-d5	70	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	88	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-005A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	73	%	
				2-Fluorophenol	73	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	87	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	79	%	
				o-Terphenyl	88	%	
				o-Terphenyl	81	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	12	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	78	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-005B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	82	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	72	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	97	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	95	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	79	%	
				o-Terphenyl	83	%	
				o-Terphenyl	82	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	21	%	
				Phenol-d5	66	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-S2A-006A	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	84	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	87	%	
				a,a,a-Trifluorotoluene	154	%	*
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	71	%	
				o-Terphenyl	74	%	
				o-Terphenyl	78	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	62	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	72	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-S2A-006B	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	89	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	81	%	
				o-Terphenyl	87	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	25	%	
				Phenol-d5	71	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	86	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (SEGMENT 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-901A * (* Note: This sample is a split sample of A1-VBC-P2A-003A)	Segment 2	0-10	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	85	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	72	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	98	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	77	%	
				o-Terphenyl	79	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	13	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	81	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-QC-901B ** (** Note: This sample is a split sample of A1-VBC-P2A-005B)	Segment 2	10-20	5/16/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	74	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	76	%	
				o-Terphenyl	81	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	82	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

VAN BIBBER CREEK
PHASE 6A

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RADIOLOGICAL SOIL SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-VBC-P6A-001C	Phase 6A	0-20	9/14/2005	1.23	0.07	0.05	-5.75	4.37	5.79	0.16	0.25	0.35	1.09	0.34	0.54
A1-VBC-P6A-002C	Phase 6A	0-20	9/15/2005	1.34	0.08	0.06	-4.02	4.20	5.85	-0.04	0.26	0.35	1.16	0.35	0.57
A1-VBC-P6A-003C	Phase 6A	0-20	9/15/2005	1.53	0.09	0.06	-1.28	4.01	5.88	0.05	0.26	0.35	1.16	0.36	0.60
A1-VBC-P6A-004C	Phase 6A	0-20	9/15/2005	1.48	0.08	0.06	-0.78	3.68	5.90	0.19	0.26	0.36	0.88	0.39	0.67
A1-VBC-P6A-005C	Phase 6A	0-20	9/15/2005	1.51	0.08	0.06	-2.84	3.98	5.80	0.05	0.25	0.35	1.76	0.37	0.57
A1-VBC-P6A-006C	Phase 6A	0-20	9/15/2005	1.58	0.09	0.05	-0.13	4.20	5.95	0.09	0.25	0.35	1.08	0.36	0.58
A1-VBC-P6A-007C	Phase 6A	0-20	9/15/2005	1.05	0.06	0.06	-11.46	4.70	5.79	-0.08	0.25	0.34	1.33	0.33	0.51
A1-VBC-P6A-008C	Phase 6A	0-20	9/15/2005	2.11	0.11	0.06	-6.88	4.43	5.86	-0.19	0.26	0.35	1.57	0.33	0.51
A1-VBC-P6A-009C	Phase 6A	0-20	9/15/2005	1.67	0.09	0.06	1.78	3.97	5.91	0.19	0.25	0.35	1.35	0.38	0.60
A1-VBC-P6A-010C	Phase 6A	0-20	9/15/2005	1.49	0.08	0.06	-8.09	4.38	5.75	-0.13	0.25	0.34	1.37	0.34	0.53
A1-VBC-QC-902C *	Phase 6A	0-20	9/15/2005	1.24	0.07	0.05	-9.47	4.70	5.89	-0.08	0.26	0.35	1.11	0.33	0.51

NOTES

*** A1-VBC-QC-902C sample is a split sample of A1-VBC-P6A-004C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR PHASE 6A, ALL VAN BIBBER CREEK SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE VAN BIBBER CREEK MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RCRA METALS SOIL SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				**160**	**5,400**	**99.5**	**53.94**	**540**	**17.66**	**390**	**490**	**390**
A1-VBC-P6A-001A	Phase 6A	0-10	9/14/2005	4.4	300	0.23	22.0	12.0	0.0059	0.66	1.10	0.600
A1-VBC-P6A-001B		10-20		3.9	110	0.09	16.0	8.4	0.0120	0.65	1.00	0.580
A1-VBC-P6A-002A	Phase 6A	0-10	9/15/2005	4.8	160	0.40	23.0	30.0	0.0062	0.77	1.10	0.600
A1-VBC-P6A-002B		10-20		7.9	190	0.51	24.0	13.0	0.0061	1.10	1.10	0.630
A1-VBC-P6A-003A	Phase 6A	0-10	9/15/2005	5.2	170	0.53	34.0	13.0	0.0200	0.77	1.10	0.610
A1-VBC-P6A-003B		10-20		3.6	180	0.47	34.0	12.0	0.0270	0.33	1.10	0.600
A1-VBC-P6A-004A	Phase 6A	0-10	9/15/2005	4.9	200	0.70	28.0	12.0	0.0052	0.66	0.96	0.540
A1-VBC-P6A-004B		10-20		4.5	220	0.44	33.0	15.0	0.0060	0.79	1.10	0.610
A1-VBC-P6A-005A	Phase 6A	0-10	9/15/2005	4.0	190	0.48	29.0	14.0	0.0056	0.64	1.00	0.570
A1-VBC-P6A-005B		10-20		4.6	210	1.10	34.0	14.0	0.0190	0.44	1.10	0.620
A1-VBC-P6A-006A	Phase 6A	0-10	9/15/2005	4.6	240	0.83	25.0	13.0	0.0190	0.68	1.00	0.580
A1-VBC-P6A-006B		10-20		4.8	320	0.64	31.0	14.0	0.0066	0.49	1.10	0.620
A1-VBC-P6A-007A	Phase 6A	0-10	9/15/2005	5.0	200	0.55	26.0	14.0	0.0120	0.65	1.00	1.400
A1-VBC-P6A-007B		10-20		3.9	120	0.32	21.0	9.1	0.0058	0.32	1.10	0.600
A1-VBC-P6A-008A	Phase 6A	0-10	9/15/2005	4.8	270	0.66	28.0	13.0	0.0100	0.70	1.00	0.580
A1-VBC-P6A-008B		10-20		4.8	300	0.63	30.0	15.0	0.0059	0.56	1.10	0.600
A1-VBC-P6A-009A	Phase 6A	0-10	9/15/2005	4.5	350	0.48	21.0	12.0	0.0060	0.40	1.10	0.620
A1-VBC-P6A-009B		10-20		5.3	190	0.73	30.0	16.0	0.0220	0.34	1.10	0.630
A1-VBC-P6A-010A	Phase 6A	0-10	9/15/2005	4.6	220	0.57	22.0	16.0	0.0061	0.45	1.10	0.630
A1-VBC-P6A-010B		10-20		4.9	290	0.60	28.0	16.0	0.0062	0.34	1.10	0.630
A1-VBC-QC-902A **	Phase 6A	0-10	9/15/2005	3.8	290	0.36	23.0	14.0	0.0530	0.36	1.00	0.560
A1-VBC-QC-902B ***		10-20		3.6	160	0.43	23.0	12.0	0.0055	0.48	1.00	0.560

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:**
Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.
**** A1-VBC-QC-902A sample is a split sample of A1-VBC-P6A-002A.**
***** A1-VBC-QC-902B sample is a split sample of A1-VBC-P6A-007B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK TPH-DRO AND TPH-GRO SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-VBC-P6A-001A	Phase 6A	0-10	9/14/2005	2.0	0.79
A1-VBC-P6A-001B		10-20		1.9	0.51
A1-VBC-P6A-002A	Phase 6A	0-10	9/15/2005	2.0	0.63
A1-VBC-P6A-002B		10-20		2.1	0.76
A1-VBC-P6A-003A	Phase 6A	0-10	9/15/2005	2.0	0.81
A1-VBC-P6A-003B		10-20		2.0	0.76
A1-VBC-P6A-004A	Phase 6A	0-10	9/15/2005	1.8	0.63
A1-VBC-P6A-004B		10-20		2.0	0.74
A1-VBC-P6A-005A	Phase 6A	0-10	9/15/2005	2.6	0.52
A1-VBC-P6A-005B		10-20		2.1	0.65
A1-VBC-P6A-006A	Phase 6A	0-10	9/15/2005	1.9	0.66
A1-VBC-P6A-006B		10-20		2.1	0.38
A1-VBC-P6A-007A	Phase 6A	0-10	9/15/2005	2.0	0.40
A1-VBC-P6A-007B		10-20		2.0	0.49
A1-VBC-P6A-008A	Phase 6A	0-10	9/15/2005	1.9	0.45
A1-VBC-P6A-008B		10-20		2.0	0.40
A1-VBC-P6A-009A	Phase 6A	0-10	9/15/2005	2.1	2.80
A1-VBC-P6A-009B		10-20		2.1	0.40
A1-VBC-P6A-010A	Phase 6A	0-10	9/15/2005	2.1	0.45
A1-VBC-P6A-010B		10-20		2.1	0.42
A1-VBC-QC-902A *	Phase 6A	0-10	9/15/2005	1.9	0.66
A1-VBC-QC-902B **		10-20		1.9	0.36

NOTES

*** A1-VBC-QC-902A sample is a split sample of A1-VBC-P6A-002A.**

**** A1-VBC-QC-902B sample is a split sample of A1-VBC-P6A-007B.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P6A-003A	Phase 6A	0-10	9/15/2005	4,4'-DDD	0.41	U
				4,4'-DDE	0.42	U
				4,4'-DDT	0.64	U
				Aldrin	0.51	U
				alpha-BHC	0.52	U
				alpha-Chlordane	3.60	
				beta-BHC	0.96	U
				Chlordane (technical)	3.80	U
				delta-BHC	0.57	U
				Dieldrin	0.46	U
				Endosulfan I	0.54	U
				Endosulfan II	0.47	U
				Endosulfan sulfate	0.54	U
				Endrin	0.47	U
				Endrin aldehyde	0.61	U
				Endrin ketone	0.47	U
				gamma-BHC (Lindane)	0.52	U
				gamma-Chlordane	2.30	
				Heptachlor	0.71	U
				Heptachlor epoxide	0.46	U
				Methoxychlor	0.79	U
				Toxaphene	28.00	U
A1-VBC-P6A-006B	Phase 6A	10-20	9/15/2005	4,4'-DDD	0.41	U
				4,4'-DDE	0.42	U
				4,4'-DDT	0.64	U
				Aldrin	0.51	U
				alpha-BHC	0.53	U
				alpha-Chlordane	0.45	U
				beta-BHC	0.96	U
				Chlordane (technical)	3.80	U
				delta-BHC	0.58	U
				Dieldrin	0.46	U
				Endosulfan I	0.54	U
				Endosulfan II	0.47	U
				Endosulfan sulfate	0.54	U
				Endrin	0.47	U
				Endrin aldehyde	0.62	U
				Endrin ketone	0.47	U
				gamma-BHC (Lindane)	0.53	U
				gamma-Chlordane	0.45	U
				Heptachlor	0.72	U
				Heptachlor epoxide	0.46	U
				Methoxychlor	0.79	U
				Toxaphene	28.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P6A-009A	Phase 6A	0-10	9/15/2005	4,4'-DDD	0.41	U
				4,4'-DDE	0.42	U
				4,4'-DDT	0.64	U
				Aldrin	0.51	U
				alpha-BHC	0.53	U
				alpha-Chlordane	0.45	U
				beta-BHC	0.96	U
				Chlordane (technical)	3.90	U
				delta-BHC	0.58	U
				Dieldrin	0.46	U
				Endosulfan I	0.54	U
				Endosulfan II	0.48	U
				Endosulfan sulfate	0.54	U
				Endrin	0.48	U
				Endrin aldehyde	0.62	U
				Endrin ketone	0.48	U
				gamma-BHC (Lindane)	0.53	U
				gamma-Chlordane	0.45	U
				Heptachlor	0.72	U
				Heptachlor epoxide	0.46	U
				Methoxychlor	0.80	U
				Toxaphene	28.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PCBs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-003A	Phase 6A	0-10	9/15/2005	Aroclor 1016	5.6	ug/kg	U
				Aroclor 1221	4.2	ug/kg	U
				Aroclor 1232	5.5	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.5	ug/kg	U
				Aroclor 1254	8.4	ug/kg	U
				Aroclor 1260	1.8	ug/kg	U
				Decachlorobiphenyl	80.0	%	
				Decachlorobiphenyl	78.0	%	
				Tetrachloro-m-xylene	86.0	%	
				Tetrachloro-m-xylene	104.0	%	
A1-VBC-P6A-006B	Phase 6A	10-20	9/15/2005	Aroclor 1016	5.6	ug/kg	U
				Aroclor 1221	4.2	ug/kg	U
				Aroclor 1232	5.5	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.5	ug/kg	U
				Aroclor 1254	8.5	ug/kg	U
				Aroclor 1260	1.8	ug/kg	U
				Decachlorobiphenyl	77.0	%	
				Decachlorobiphenyl	70.0	%	
				Tetrachloro-m-xylene	93.0	%	
				Tetrachloro-m-xylene	75.0	%	
A1-VBC-P6A-009A	Phase 6A	0-10	9/15/2005	Aroclor 1016	5.7	ug/kg	U
				Aroclor 1221	4.2	ug/kg	U
				Aroclor 1232	5.5	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.5	ug/kg	U
				Aroclor 1254	8.5	ug/kg	U
				Aroclor 1260	1.8	ug/kg	U
				Decachlorobiphenyl	75.0	%	
				Decachlorobiphenyl	86.0	%	
				Tetrachloro-m-xylene	100.0	%	
				Tetrachloro-m-xylene	78.0	%	

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-001A	Phase 6A	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	92	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	98	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-001B	Phase 6A	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	94	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	76	%	
				2-Fluorophenol	79	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	85	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	97	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-002A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	65	%	
				2-Fluorophenol	73	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	112	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	68	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	115	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	91	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-002B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	66	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	53	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	114	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	68	%	
				o-Terphenyl	60	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	23	%	
				Phenol-d5	60	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	84	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-003A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	61	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	43	%	
				2-Fluorophenol	59	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	65	%	
				o-Terphenyl	69	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	22	%	
				Phenol-d5	58	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-003B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	99	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	63	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	45	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0017	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	70	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	60	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	83	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-004A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	50	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0038	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	107	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	69	%	
				o-Terphenyl	69	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	10	%	
				Phenol-d5	60	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	81	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-004B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	64	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	50	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	69	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	21	%	
				Phenol-d5	62	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	85	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-005A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	66	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	50	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	107	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	70	%	
				o-Terphenyl	74	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	62	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	91	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-005B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	102	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	51	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	84	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	71	%	
				o-Terphenyl	70	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	23	%	
				Phenol-d5	64	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-006A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	102	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	63	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	50	%	
				2-Fluorophenol	60	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	90	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	67	%	
				o-Terphenyl	60	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	58	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	84	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-006B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	91	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	64	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	49	%	
				2-Fluorophenol	62	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	90	%	
				a,a,a-Trifluorotoluene	87	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	69	%	
				o-Terphenyl	63	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	22	%	
				Phenol-d5	61	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	88	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-007A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	103	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	68	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	49	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	108	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	71	%	
				o-Terphenyl	61	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	63	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	90	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-007B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	58	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	90	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	107	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	69	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	64	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	90	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-008A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	94	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	55	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	69	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	61	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	86	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-008B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	118	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	69	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	59	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	101	%	
				a,a,a-Trifluorotoluene	84	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	116	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	63	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-009A * (* Note: This sample was extracted outside the 7 day window for the analysis of TCLP 8270C)	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	136	%	*
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	86	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	80	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	141	%	*
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	77	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	22	%	
				Phenol-d5	73	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	96	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-009B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	93	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	55	%	
				2-Fluorophenol	68	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	85	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	94	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	74	%	
				o-Terphenyl	63	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	24	%	
				Phenol-d5	64	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	91	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	99	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6A-010A	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	126	%	*
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	45	%	
				2-Fluorophenol	68	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	103	%	
				a,a,a-Trifluorotoluene	83	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	119	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	23	%	
				Phenol-d5	65	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	87	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6A-010B	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	119	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	66	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	44	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	99	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	116	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	71	%	
				o-Terphenyl	58	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	24	%	
				Phenol-d5	64	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	87	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6A)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-902A ** (** Note: This sample is a split sample of A1-VBC-P6A-002A)	Phase 6A	0-10	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	98	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	69	%	
				2-Fluorophenol	74	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	85	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	111	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	60	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	67	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	93	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	89	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-QC-902B *** (*** Note: This sample is a split sample of A1-VBC-P6A-007B)	Phase 6A	10-20	9/15/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	99	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	52	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	62	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	63	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	89	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	86	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

VAN BIBBER CREEK
PHASE 6B

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK RADIOLOGICAL SOIL SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-VBC-P6B-001C	Phase 6B	0-20	9/13/2005	0.97	0.06	0.06	1.18	3.95	5.88	-0.04	0.26	0.35	1.10	0.37	0.59
A1-VBC-P6B-002C	Phase 6B	0-20	9/13/2005	0.88	0.06	0.05	-11.77	4.77	5.87	-0.29	0.26	0.35	0.98	0.30	0.48
A1-VBC-P6B-003C	Phase 6B	0-20	9/13/2005	0.97	0.06	0.05	-4.06	4.43	5.93	-0.03	0.25	0.35	0.77	0.31	0.50
A1-VBC-P6B-004C	Phase 6B	0-20	9/13/2005	0.83	0.06	0.06	-0.41	3.94	5.81	0.02	0.25	0.35	0.85	0.37	0.60
A1-VBC-P6B-005C	Phase 6B	0-20	9/13/2005	0.98	0.06	0.05	-11.32	4.78	5.90	0.06	0.26	0.35	0.96	0.30	0.48
A1-VBC-P6B-006C	Phase 6B	0-20	9/13/2005	0.85	0.05	0.05	-3.81	4.32	5.77	0.05	0.25	0.35	1.08	0.33	0.52
A1-VBC-P6B-007C	Phase 6B	0-20	9/13/2005	0.85	0.06	0.06	2.11	3.92	5.83	0.18	0.25	0.35	0.65	0.34	0.58
A1-VBC-P6B-008C	Phase 6B	0-20	9/13/2005	0.93	0.06	0.06	-3.30	4.22	5.91	0.04	0.26	0.36	1.11	0.36	0.57
A1-VBC-P6B-009C	Phase 6B	0-20	9/13/2005	0.97	0.06	0.05	-0.23	4.13	5.87	0.02	0.26	0.35	1.00	0.35	0.56
A1-VBC-P6B-010C	Phase 6B	0-20	9/13/2005	1.06	0.06	0.05	-3.60	4.32	5.79	0.23	0.25	0.35	1.13	0.33	0.53
A1-VBC-P6B-011C	Phase 6B	0-20	9/13/2005	1.09	0.07	0.06	-0.53	4.33	5.88	-0.04	0.25	0.35	0.91	0.33	0.53
A1-VBC-P6B-012C	Phase 6B	0-20	9/13/2005	0.99	0.06	0.05	-0.01	4.11	5.84	0.17	0.25	0.35	0.82	0.33	0.53
A1-VBC-P6B-013C	Phase 6B	0-20	9/13/2005	1.07	0.07	0.05	-0.36	4.14	5.85	-0.01	0.25	0.35	0.92	0.35	0.56
A1-VBC-P6B-014C	Phase 6B	0-20	9/14/2005	1.05	0.06	0.05	-2.13	3.66	5.83	-0.13	0.25	0.34	0.93	0.37	0.59
A1-VBC-P6B-015C	Phase 6B	0-20	9/14/2005	1.15	0.07	0.06	-0.75	4.24	5.75	-0.11	0.25	0.33	0.82	0.30	0.48
A1-VBC-P6B-016C	Phase 6B	0-20	9/14/2005	0.93	0.06	0.06	-1.28	4.08	5.97	0.12	0.26	0.36	0.74	0.33	0.53
A1-VBC-P6B-017C	Phase 6B	0-20	9/14/2005	1.03	0.06	0.05	-0.64	3.65	5.87	-0.05	0.25	0.34	1.21	0.40	0.64
A1-VBC-P6B-018C	Phase 6B	0-20	9/14/2005	1.11	0.07	0.05	-4.82	4.48	5.77	0.04	0.24	0.33	1.08	0.31	0.49
A1-VBC-P6B-019C	Phase 6B	0-20	9/14/2005	0.94	0.06	0.06	-1.06	4.17	5.88	0.12	0.25	0.35	0.71	0.34	0.55
A1-VBC-P6B-020C	Phase 6B	0-20	9/14/2005	1.00	0.06	0.06	-2.63	4.32	5.82	0.21	0.24	0.34	0.72	0.32	0.53
A1-VBC-QC-903C *	Phase 6B	0-20	9/13/2005	0.93	0.06	0.06	-2.21	3.64	5.83	-0.01	0.25	0.34	0.85	0.36	0.59

NOTES

*** A1-VBC-QC-903C sample is a split sample of A1-VBC-P6B-013C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR PHASE 6A, ALL VAN BIBBER CREEK SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE VAN BIBBER CREEK MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK RCRA METALS SOIL SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				160	5,400	99.5	53.94	540	17.66	390	490	390
A1-VBC-P6B-001A	Phase 6B	0-10	9/13/2005	4.4	150	0.36	23.0	23.0	0.0260	0.81	1.00	0.570
A1-VBC-P6B-001B		10-20		4.2	200	0.09	35.0	11.0	0.0170	0.43	1.10	0.590
A1-VBC-P6B-002A	Phase 6B	0-10	9/13/2005	4.3	130	0.26	23.0	19.0	0.0210	0.61	1.10	0.590
A1-VBC-P6B-002B		10-20		4.4	290	0.14	35.0	14.0	0.0130	0.81	1.10	0.590
A1-VBC-P6B-003A	Phase 6B	0-10	9/13/2005	4.3	170	0.20	29.0	11.0	0.0500	0.39	1.00	0.580
A1-VBC-P6B-003B		10-20		3.1	91	0.03	26.0	8.1	0.0140	0.32	1.00	0.580
A1-VBC-P6B-004A	Phase 6B	0-10	9/13/2005	3.8	140	0.16	29.0	14.0	0.0140	0.39	1.00	0.570
A1-VBC-P6B-004B		10-20		3.8	270	0.14	28.0	12.0	0.0130	0.81	1.10	0.590
A1-VBC-P6B-005A	Phase 6B	0-10	9/13/2005	3.2	110	0.03	20.0	12.0	0.0140	0.61	1.00	0.580
A1-VBC-P6B-005B		10-20		3.3	220	0.09	31.0	12.0	0.0160	0.50	1.10	0.590
A1-VBC-P6B-006A	Phase 6B	0-10	9/13/2005	3.6	88	0.11	25.0	13.0	0.0180	0.30	0.94	0.530
A1-VBC-P6B-006B		10-20		2.9	150	0.08	27.0	10.0	0.0170	0.53	0.98	0.550
A1-VBC-P6B-007A	Phase 6B	0-10	9/13/2005	3.0	120	0.17	20.0	10.0	0.0140	0.91	0.95	0.530
A1-VBC-P6B-007B		10-20		4.1	210	0.31	32.0	12.0	0.0170	0.62	1.00	0.580
A1-VBC-P6B-008A	Phase 6B	0-10	9/13/2005	4.2	170	0.26	23.0	16.0	0.0270	0.87	1.10	0.590
A1-VBC-P6B-008B		10-20		5.1	190	0.16	30.0	11.0	0.0130	0.71	0.98	0.550
A1-VBC-P6B-009A	Phase 6B	0-10	9/13/2005	3.8	110	0.25	19.0	21.0	0.0220	1.20	1.00	0.560
A1-VBC-P6B-009B		10-20		2.9	190	0.28	29.0	11.0	0.0150	0.32	1.00	0.580
A1-VBC-P6B-010A	Phase 6B	0-10	9/13/2005	4.0	120	0.27	21.0	21.0	0.0150	0.89	1.00	0.580
A1-VBC-P6B-010B		10-20		3.8	260	0.17	40.0	13.0	0.0180	0.32	1.10	0.590
A1-VBC-P6B-011A	Phase 6B	0-10	9/13/2005	3.2	140	0.31	24.0	24.0	0.0740	0.32	2.50	0.580
A1-VBC-P6B-011B		10-20		4.3	190	0.13	33.0	12.0	0.0130	0.37	1.10	0.610
A1-VBC-P6B-012A	Phase 6B	0-10	9/13/2005	3.4	130	0.10	20.0	18.0	0.0150	0.66	1.00	0.570
A1-VBC-P6B-012B		10-20		2.1	81	0.07	21.0	5.5	0.0140	0.31	1.70	0.580
A1-VBC-P6B-013A	Phase 6B	0-10	9/13/2005	3.3	170	0.06	25.0	9.2	0.0110	0.47	1.00	0.580
A1-VBC-P6B-013B		10-20		4.4	220	0.24	35.0	14.0	0.0180	0.71	1.10	0.590
A1-VBC-P6B-014A	Phase 6B	0-10	9/14/2005	5.0	140	0.58	23.0	33.0	0.0280	1.20	1.10	0.600
A1-VBC-P6B-014B		10-20		4.1	170	0.27	28.0	10.0	0.0058	0.70	1.10	0.600
A1-VBC-P6B-015A	Phase 6B	0-10	9/14/2005	3.5	150	0.17	25.0	8.6	0.0055	0.86	1.00	0.560
A1-VBC-P6B-015B		10-20		4.8	250	0.25	36.0	14.0	0.0059	0.33	1.10	0.600
A1-VBC-P6B-016A	Phase 6B	0-10	9/14/2005	3.9	120	0.30	19.0	14.0	0.1000	1.10	0.98	0.550
A1-VBC-P6B-016B		10-20		4.3	87	0.06	13.0	6.4	0.0056	0.31	1.00	0.570
A1-VBC-P6B-017A	Phase 6B	0-10	9/14/2005	4.0	140	0.22	27.0	9.8	0.0058	0.32	1.10	0.590
A1-VBC-P6B-017B		10-20		8.0	79	0.10	11.0	6.3	0.0057	1.10	1.00	0.580
A1-VBC-P6B-018A	Phase 6B	0-10	9/14/2005	2.5	130	0.24	24.0	10.0	0.0059	0.38	1.10	0.600
A1-VBC-P6B-018B		10-20		3.7	170	0.19	24.0	11.0	0.0057	0.32	1.00	0.590
A1-VBC-P6B-019A	Phase 6B	0-10	9/14/2005	3.7	140	0.22	22.0	10.0	0.0120	0.61	1.00	0.580
A1-VBC-P6B-019B		10-20		3.5	74	0.12	11.0	6.8	0.0055	0.46	1.00	0.560
A1-VBC-P6B-020A	Phase 6B	0-10	9/14/2005	3.7	120	0.20	18.0	17.0	0.0240	0.62	1.00	0.570
A1-VBC-P6B-020B		10-20		4.0	48	0.06	9.7	7.3	0.0110	0.64	1.00	0.570
A1-VBC-QC-903A **	Phase 6B	0-10	9/14/2005	2.2	88	0.10	11.0	8.0	0.0100	0.44	1.00	0.570
A1-VBC-QC-903B ***		10-20	9/13/2005	2.5	130	0.08	31.0	11.0	0.0140	0.50	1.00	0.580

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:**
Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.
**** A1-VBC-QC-903A sample is a split sample of A1-VBC-P6B-018A.**
***** A1-VBC-QC-903B sample is a split sample of A1-VBC-P6B-004B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK TPH-DRO AND TPH-GRO SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-VBC-P6B-001A	Phase 6B	0-10	9/13/2005	3.2	1.60
A1-VBC-P6B-001B		10-20		2.0	0.88
A1-VBC-P6B-002A	Phase 6B	0-10	9/13/2005	5.2	1.10
A1-VBC-P6B-002B		10-20		2.0	0.99
A1-VBC-P6B-003A	Phase 6B	0-10	9/13/2005	22.0	1.30
A1-VBC-P6B-003B		10-20		1.9	1.30
A1-VBC-P6B-004A	Phase 6B	0-10	9/13/2005	55.0	1.10
A1-VBC-P6B-004B		10-20		2.0	1.40
A1-VBC-P6B-005A	Phase 6B	0-10	9/13/2005	1.9	0.94
A1-VBC-P6B-005B		10-20		2.0	0.82
A1-VBC-P6B-006A	Phase 6B	0-10	9/13/2005	1.8	1.00
A1-VBC-P6B-006B		10-20		1.8	0.77
A1-VBC-P6B-007A	Phase 6B	0-10	9/13/2005	8.0	1.40
A1-VBC-P6B-007B		10-20		1.9	1.20
A1-VBC-P6B-008A	Phase 6B	0-10	9/13/2005	2.0	1.60
A1-VBC-P6B-008B		10-20		1.8	1.50
A1-VBC-P6B-009A	Phase 6B	0-10	9/13/2005	23.0	1.70
A1-VBC-P6B-009B		10-20		1.9	1.80
A1-VBC-P6B-010A	Phase 6B	0-10	9/13/2005	3.9	1.40
A1-VBC-P6B-010B		10-20		2.0	1.60
A1-VBC-P6B-011A	Phase 6B	0-10	9/13/2005	120.0	1.80
A1-VBC-P6B-011B		10-20		2.0	1.60
A1-VBC-P6B-012A	Phase 6B	0-10	9/13/2005	20.0	1.20
A1-VBC-P6B-012B		10-20		1.9	1.80
A1-VBC-P6B-013A	Phase 6B	0-10	9/13/2005	4.7	1.80
A1-VBC-P6B-013B		10-20		2.0	2.00
A1-VBC-P6B-014A	Phase 6B	0-10	9/14/2005	7.4	1.10
A1-VBC-P6B-014B		10-20		2.0	0.73
A1-VBC-P6B-015A	Phase 6B	0-10	9/14/2005	1.9	1.00
A1-VBC-P6B-015B		10-20		2.0	0.77
A1-VBC-P6B-016A	Phase 6B	0-10	9/14/2005	1.8	0.67
A1-VBC-P6B-016B		10-20		1.9	1.10
A1-VBC-P6B-017A	Phase 6B	0-10	9/14/2005	2.0	0.74
A1-VBC-P6B-017B		10-20		1.9	0.76
A1-VBC-P6B-018A	Phase 6B	0-10	9/14/2005	6.6	0.80
A1-VBC-P6B-018B		10-20		2.0	0.84
A1-VBC-P6B-019A	Phase 6B	0-10	9/14/2005	3.3	0.87
A1-VBC-P6B-019B		10-20		1.9	0.81
A1-VBC-P6B-020A	Phase 6B	0-10	9/14/2005	4.6	0.87
A1-VBC-P6B-020B		10-20		1.9	0.65
A1-VBC-QC-903A *	Phase 6B	0-10	9/14/2005	1.9	0.59
A1-VBC-QC-903B **		10-20	9/13/2005	1.9	1.40

NOTES

*** A1-VBC-QC-903A sample is a split sample of A1-VBC-P6B-018A.**

**** A1-VBC-QC-903B sample is a split sample of A1-VBC-P6B-004B.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P6B-002B	Phase 6B	10-20	9/13/2005	4,4'-DDD	0.39	U
				4,4'-DDE	0.40	U
				4,4'-DDT	0.61	U
				Aldrin	0.49	U
				alpha-BHC	0.50	U
				alpha-Chlordane	0.43	U
				beta-BHC	0.92	U
				Chlordane (technical)	3.70	U
				delta-BHC	0.55	U
				Dieldrin	0.44	U
				Endosulfan I	0.51	U
				Endosulfan II	0.45	U
				Endosulfan sulfate	0.51	U
				Endrin	0.45	U
				Endrin aldehyde	0.59	U
				Endrin ketone	0.45	U
				gamma-BHC (Lindane)	0.50	U
				gamma-Chlordane	0.43	U
				Heptachlor	0.69	U
				Heptachlor epoxide	0.44	U
				Methoxychlor	0.76	U
				Toxaphene	27.00	U
A1-VBC-P6B-006A	Phase 6B	0-10	9/13/2005	4,4'-DDD	0.35	U
				4,4'-DDE	0.36	U
				4,4'-DDT	0.55	U
				Aldrin	0.44	U
				alpha-BHC	0.45	U
				alpha-Chlordane	0.38	U
				beta-BHC	0.82	U
				Chlordane (technical)	3.30	U
				delta-BHC	0.49	U
				Dieldrin	0.39	U
				Endosulfan I	0.46	U
				Endosulfan II	0.41	U
				Endosulfan sulfate	0.46	U
				Endrin	0.41	U
				Endrin aldehyde	0.53	U
				Endrin ketone	0.41	U
				gamma-BHC (Lindane)	0.45	U
				gamma-Chlordane	0.38	U
				Heptachlor	0.61	U
				Heptachlor epoxide	0.39	U
				Methoxychlor	0.68	U
				Toxaphene	24.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PESTICIDES SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-VBC-P6B-016A	Phase 6B	0-10	9/14/2005	4,4'-DDD	0.37	U
				4,4'-DDE	0.38	U
				4,4'-DDT	0.57	U
				Aldrin	0.46	U
				alpha-BHC	0.47	U
				alpha-Chlordane	0.40	U
				beta-BHC	0.86	U
				Chlordane (technical)	3.40	U
				delta-BHC	0.51	U
				Dieldrin	0.41	U
				Endosulfan I	0.48	U
				Endosulfan II	0.42	U
				Endosulfan sulfate	0.48	U
				Endrin	0.42	U
				Endrin aldehyde	0.55	U
				Endrin ketone	0.42	U
				gamma-BHC (Lindane)	0.47	U
				gamma-Chlordane	0.40	U
				Heptachlor	0.64	U
				Heptachlor epoxide	0.41	U
				Methoxychlor	0.71	U
				Toxaphene	25.00	U
A1-VBC-P6B-020B	Phase 6B	10-20	9/14/2005	4,4'-DDD	0.38	U
				4,4'-DDE	0.39	U
				4,4'-DDT	0.59	U
				Aldrin	0.47	U
				alpha-BHC	0.49	U
				alpha-Chlordane	0.42	U
				beta-BHC	0.89	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.53	U
				Dieldrin	0.43	U
				Endosulfan I	0.50	U
				Endosulfan II	0.44	U
				Endosulfan sulfate	0.50	U
				Endrin	0.44	U
				Endrin aldehyde	0.57	U
				Endrin ketone	0.44	U
				gamma-BHC (Lindane)	0.49	U
				gamma-Chlordane	0.42	U
				Heptachlor	0.66	U
				Heptachlor epoxide	0.43	U
				Methoxychlor	0.74	U
				Toxaphene	26.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

VAN BIBBER CREEK PCBs SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-002B	Phase 6B	10-20	9/13/2005	Aroclor 1016	5.4	ug/kg	U
				Aroclor 1221	4.0	ug/kg	U
				Aroclor 1232	5.3	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.3	ug/kg	U
				Aroclor 1254	8.1	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	86.0	%	
				Decachlorobiphenyl	76.0	%	
				Tetrachloro-m-xylene	78.0	%	
				Tetrachloro-m-xylene	101.0	%	
A1-VBC-P6B-006A	Phase 6B	0-10	9/13/2005	Aroclor 1016	4.8	ug/kg	U
				Aroclor 1221	3.6	ug/kg	U
				Aroclor 1232	4.7	ug/kg	U
				Aroclor 1242	9.5	ug/kg	U
				Aroclor 1248	3.8	ug/kg	U
				Aroclor 1254	7.2	ug/kg	U
				Aroclor 1260	1.5	ug/kg	U
				Decachlorobiphenyl	72.0	%	
				Decachlorobiphenyl	72.0	%	
				Tetrachloro-m-xylene	121.0	%	
				Tetrachloro-m-xylene	77.0	%	
A1-VBC-P6B-011B	Phase 6B	10-20	9/13/2005	Aroclor 1016	5.6	ug/kg	U
				Aroclor 1221	4.2	ug/kg	U
				Aroclor 1232	5.5	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	4.5	ug/kg	U
				Aroclor 1254	8.4	ug/kg	U
				Aroclor 1260	1.8	ug/kg	U
				Decachlorobiphenyl	74.0	%	
				Tetrachloro-m-xylene	93.0	%	
A1-VBC-P6B-016A	Phase 6B	0-10	9/14/2005	Aroclor 1016	5.0	ug/kg	U
				Aroclor 1221	3.8	ug/kg	U
				Aroclor 1232	4.9	ug/kg	U
				Aroclor 1242	9.9	ug/kg	U
				Aroclor 1248	4.0	ug/kg	U
				Aroclor 1254	7.5	ug/kg	U
				Aroclor 1260	1.6	ug/kg	U
				Decachlorobiphenyl	74.0	%	
				Decachlorobiphenyl	84.0	%	
				Tetrachloro-m-xylene	82.0	%	
				Tetrachloro-m-xylene	99.0	%	
A1-VBC-P6B-020B	Phase 6B	10-20	9/14/2005	Aroclor 1016	5.2	ug/kg	U
				Aroclor 1221	3.9	ug/kg	U
				Aroclor 1232	5.1	ug/kg	U
				Aroclor 1242	10.0	ug/kg	U
				Aroclor 1248	4.2	ug/kg	U
				Aroclor 1254	7.8	ug/kg	U
				Aroclor 1260	1.7	ug/kg	U
				Decachlorobiphenyl	71.0	%	
				Decachlorobiphenyl	82.0	%	
				Tetrachloro-m-xylene	91.0	%	
				Tetrachloro-m-xylene	76.0	%	

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
VAN BIBBER CREEK VOCs AND SVOCs SAMPLE RESULTS (PHASE 6B)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-001A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	82	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	81	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	97	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	87	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	79	%	
				o-Terphenyl	67	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	54	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	96	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	91	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-001B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	85	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	70	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	73	%	
				2-Fluorophenol	62	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	86	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	88	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	75	%	
				o-Terphenyl	63	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	51	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	88	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	91	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-002A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	83	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	69	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	62	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	88	%	
				a,a,a-Trifluorotoluene	98	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	90	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	73	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	51	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	88	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	85	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-002B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	78	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	69	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	55	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	89	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	84	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	71	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	47	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	85	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	89	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-003A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	86	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	69	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	64	%	
				2-Fluorophenol	57	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	86	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	88	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	63	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	51	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	89	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	83	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-003B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	82	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	71	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	92	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	76	%	
				o-Terphenyl	54	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	51	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	90	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	89	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-004A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	71	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	65	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	97	%	
				Benzene	0.0017	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	96	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	77	%	
				o-Terphenyl	62	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	53	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	88	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-004B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	102	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	73	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	62	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	61	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	52	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	89	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-005A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	108	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	80	%	
				2-Fluorophenol	66	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	111	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	53	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	100	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0025	mg/L	J
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-005B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	108	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	80	%	
				2-Fluorophenol	62	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	98	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	110	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	71	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	50	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	92	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-006A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	107	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	67	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	58	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	93	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	111	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	70	%	
				o-Terphenyl	61	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	8.7	%	
				Phenol-d5	48	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	90	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-006B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	80	%	
				2-Fluorophenol	71	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	13	%	
				Phenol-d5	56	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-007A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	95	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	65	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	67	%	
				2-Fluorophenol	61	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	74	%	
				o-Terphenyl	67	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	9.2	%	
				Phenol-d5	49	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	86	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-007B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	76	%	
				2-Fluorophenol	69	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	90	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	56	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	94	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	91	%	
				Trichloroethene	0.0043	mg/L	J
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-008A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	97	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	71	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	77	%	
				2-Fluorophenol	67	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	103	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	76	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	54	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	92	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-008B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	97	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	69	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	90	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	74	%	
				o-Terphenyl	72	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	12	%	
				Phenol-d5	51	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	93	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-009A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	73	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	76	%	
				2-Fluorophenol	64	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	14	%	
				Phenol-d5	52	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	91	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-009B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	97	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	82	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	79	%	
				2-Fluorophenol	84	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	89	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	80	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	94	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-010A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	81	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	78	%	
				2-Fluorophenol	85	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	87	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.004	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	92	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	89	%	
				o-Terphenyl	74	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	81	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	112	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-010B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	79	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	80	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	78	%	
				2-Fluorophenol	82	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	89	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	93	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	87	%	
				o-Terphenyl	57	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	78	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	112	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-011A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	78	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	76	%	
				2-Fluorophenol	80	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	89	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	85	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	76	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	111	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-011B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	78	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	79	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	88	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	88	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	69	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	21	%	
				Phenol-d5	74	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	101	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	95	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-012A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	89	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	94	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	75	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	97	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-012B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	83	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	83	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	91	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	73	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	90	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-013A	Phase 6B	0-10	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	82	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	72	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	90	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	69	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-013B	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	81	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	71	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	69	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	94	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	61	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	100	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	101	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-014A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	87	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	72	%	
				2-Fluorophenol	76	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	75	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	71	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	101	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-014B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	86	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	74	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	73	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	88	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	96	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-015A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	85	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	81	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	99	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	86	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	77	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	111	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	102	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-015B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	89	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	73	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	85	%	
				Benzene	0.005	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	74	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	89	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	99	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-016A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	91	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	74	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	98	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	70	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	13	%	
				Phenol-d5	74	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	100	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-016B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	84	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	76	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	77	%	
				2-Fluorophenol	81	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	98	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	85	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	76	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	111	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-017A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	99	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	79	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	80	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	75	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	107	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-017B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	101	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	75	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	80	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0053	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	106	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	84	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	75	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	103	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	94	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-018A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	107	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	81	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	78	%	
				2-Fluorophenol	83	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	111	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	86	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	20	%	
				Phenol-d5	78	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	106	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-018B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	93	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	75	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0034	mg/L	J
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	102	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	74	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	114	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-019A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	86	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	72	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	68	%	
				2-Fluorophenol	71	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	88	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	77	%	
				o-Terphenyl	60	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	66	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	87	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-019B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	82	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	69	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	91	%	
				a,a,a-Trifluorotoluene	89	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	96	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	64	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	14	%	
				Phenol-d5	69	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	94	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-P6B-020A	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	85	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	82	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	72	%	
				2-Fluorophenol	79	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	92	%	
				a,a,a-Trifluorotoluene	86	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	85	%	
				o-Terphenyl	65	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	72	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	95	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-P6B-020B	Phase 6B	10-20	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	91	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	78	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	91	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	67	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	70	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	92	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	92	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-VBC-QC-903A * (* Note: This sample is a split sample of A1-VBC-P6B-018A)	Phase 6B	0-10	9/14/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	99	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	78	%	
				2-Fluorophenol	83	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	86	%	
				a,a,a-Trifluorotoluene	90	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	J
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	86	%	
				o-Terphenyl	63	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	78	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	113	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	93	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U
A1-VBC-QC-903B ** (** Note: This sample is a split sample of A1-VBC-P6B-004B)	Phase 6B	10-20	9/13/2005	1,1-Dichloroethene	0.0024	mg/L	U
				1,2-Dichloroethane	0.0012	mg/L	U
				1,2-Dichloroethane-d4	106	%	
				1,4-Dichlorobenzene	0.0088	mg/L	U
				2,4,5-Trichlorophenol	0.007	mg/L	U
				2,4,6-Tribromophenol	61	%	
				2,4,6-Trichlorophenol	0.0051	mg/L	U
				2,4-Dinitrotoluene	0.0065	mg/L	U
				2-Butanone	0.02	mg/L	U
				2-Fluorobiphenyl	73	%	
				2-Fluorophenol	63	%	
				2-Methylphenol	0.009	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0063	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	92	%	
				Benzene	0.0015	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0013	mg/L	U
				Chloroform	0.0015	mg/L	U
				Dibromofluoromethane	111	%	
				Hexachlorobenzene	0.025	mg/L	U
				Hexachlorobutadiene	0.0087	mg/L	U
				Hexachloroethane	0.0092	mg/L	U
				Nitrobenzene	0.0088	mg/L	U
				Nitrobenzene-d5	77	%	
				o-Terphenyl	76	%	
				Pentachlorophenol	0.0095	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	54	%	
				Pyridine	0.016	mg/L	U
				Terphenyl-d14	84	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0019	mg/L	U
				Vinyl chloride	0.0028	mg/L	U

COLORADO CHRISTIAN UNIVERSITY
BACKFILL SAMPLE DATA

COLORADO CHRISTIAN UNIVERSITY
PHASE 1

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY RADIOLOGICAL SOIL SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-CCU-P1-001C	Phase 1	0-10	4/27/2006	0.78	0.05	0.06	-3.02	3.78	5.86	0.15	0.28	0.39	0.49	0.27	0.46
A1-CCU-P1-002C	Phase 1	0-10	4/27/2006	0.81	0.05	0.05	-2.35	3.80	5.92	-0.05	0.29	0.39	0.54	0.28	0.45
A1-CCU-P1-003C	Phase 1	0-10	4/27/2006	0.76	0.05	0.05	-14.15	4.44	5.87	-0.20	0.29	0.40	0.74	0.28	0.45
A1-CCU-P1-004C	Phase 1	0-10	4/27/2006	0.75	0.05	0.05	0.48	3.62	5.93	0.09	0.29	0.40	0.88	0.33	0.52
A1-CCU-QC-900C *	Phase 1	0-10	4/27/2006	0.79	0.05	0.05	-0.61	3.75	5.86	-0.14	0.29	0.39	0.45	0.25	0.41

NOTES

*** A1-CCU-QC-900C sample is a split sample of A1-CCU-P1-004C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR PHASE 1, ALL COLORADO CHRISTIAN UNIVERSITY SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE COLORADO CHRISTIAN UNIVERSITY MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY RCRA METALS SOIL SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				**160**	**5,400**	**99.5**	**53.94**	**540**	**17.66**	**390**	**490**	**390**
A1-CCU-P1-001A	Phase 1	0-10	4/27/2006	3.2	400	0.62	16.0	14.0	0.0210	0.51	1.00	0.580
A1-CCU-P1-002A	Phase 1	0-10	4/27/2006	4.4	340	0.64	17.0	23.0	0.0100	1.10	1.00	0.570
A1-CCU-P1-003A	Phase 1	0-10	4/27/2006	3.2	350	0.59	16.0	10.0	0.0034	0.32	1.00	0.580
A1-CCU-P1-004A	Phase 1	0-10	4/27/2006	3.4	330	0.69	18.0	12.0	0.0084	0.32	1.00	0.580
A1-CCU-QC-900A **	Phase 1	0-10	4/27/2006	4.4	360	0.66	18.0	20.0	0.0085	0.39	1.00	0.580

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:** ***Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.***

**** A1-CCU-QC-900A sample is a split sample of A1-CCU-P1-002A.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY TPH-DRO AND TPH-GRO SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-CCU-P1-001A	Phase 1	0-10	4/27/2006	1.2	0.53
A1-CCU-P1-002A	Phase 1	0-10	4/27/2006	1.2	0.55
A1-CCU-P1-003A	Phase 1	0-10	4/27/2006	1.2	1.00
A1-CCU-P1-004A	Phase 1	0-10	4/27/2006	1.2	0.65
A1-CCU-QC-900A *	Phase 1	0-10	4/27/2006	1.2	0.51

NOTES

*** A1-CCU-QC-900A sample is a split sample of A1-CCU-P1-002A.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY PESTICIDES SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-CCU-P1-003A	Phase 1	0-10	4/27/2006	4,4'-DDD	0.66	U
				4,4'-DDE	0.29	U
				4,4'-DDT	0.72	U
				Aldrin	0.30	U
				alpha-BHC	0.26	U
				alpha-Chlordane	0.39	U
				beta-BHC	0.35	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.20	U
				Dieldrin	0.25	U
				Endosulfan I	0.21	U
				Endosulfan II	0.35	U
				Endosulfan sulfate	0.33	U
				Endrin	0.37	U
				Endrin aldehyde	0.26	U
				Endrin ketone	0.26	U
				gamma-BHC (Lindane)	0.17	U
				gamma-Chlordane	0.32	U
				Heptachlor	0.26	U
				Heptachlor epoxide	0.52	U
				Methoxychlor	0.55	U
				Toxaphene	19.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY PCBs SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P1-003A	Phase 1	0-10	4/27/2006	Aroclor 1016	6.2	ug/kg	U
				Aroclor 1221	19.0	ug/kg	U
				Aroclor 1232	6.2	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	6.8	ug/kg	U
				Aroclor 1254	6.7	ug/kg	U
				Aroclor 1260	3.2	ug/kg	U
				Decachlorobiphenyl	73.0	%	
				Decachlorobiphenyl	86.0	%	
				Tetrachloro-m-xylene	86.0	%	
				Tetrachloro-m-xylene	85.0	%	

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P1-001A	Phase 1	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	92	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	78	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	67	%	
				2-Fluorophenol	74	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	93	%	
				a,a,a-Trifluorotoluene	90	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	94	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	70	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	72	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	110	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	101	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P1-002A	Phase 1	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	91	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	80	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	69	%	
				2-Fluorophenol	69	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	100	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	94	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	69	%	
				o-Terphenyl	72	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	64	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	79	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	104	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P1-003A	Phase 1	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	91	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	81	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	66	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	95	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	76	%	
				o-Terphenyl	71	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	70	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	87	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P1-004A	Phase 1	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	100	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	73	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	61	%	
				2-Fluorophenol	70	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	98	%	
				a,a,a-Trifluorotoluene	98	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	98	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	76	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	67	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	109	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	102	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 1)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-QC-900A * (* Note: This sample is a split sample of A1-CCU-P1-002A)	Phase 1	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	98	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	66	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	99	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	72	%	
				o-Terphenyl	72	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	66	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	78	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

COLORADO CHRISTIAN UNIVERSITY
PHASE 2

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY RADIOLOGICAL SOIL SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-CCU-P2-001C	Phase 2	0-20	4/27/2006	0.99	0.06	0.05	-1.86	3.85	5.98	0.19	0.29	0.40	0.75	0.29	0.46
A1-CCU-P2-002C	Phase 2	0-20	4/27/2006	0.96	0.06	0.05	-3.27	3.58	5.77	0.00	0.28	0.38	0.55	0.26	0.43
A1-CCU-P2-003C	Phase 2	0-20	4/27/2006	0.93	0.06	0.05	-0.46	3.19	5.87	0.22	0.28	0.39	0.79	0.36	0.59
A1-CCU-P2-004C	Phase 2	0-20	4/27/2006	0.92	0.06	0.05	3.66	3.29	5.85	0.29	0.28	0.39	0.70	0.33	0.57
A1-CCU-P2-005C	Phase 2	0-20	4/27/2006	0.83	0.05	0.04	-9.57	4.08	5.85	-0.11	0.28	0.38	0.92	0.29	0.45
A1-CCU-P2-006C	Phase 2	0-20	4/27/2006	0.75	0.05	0.05	-6.31	4.02	5.88	-0.05	0.28	0.39	0.53	0.26	0.42
A1-CCU-QC-901C *	Phase 2	0-20	4/27/2006	0.85	0.05	0.05	-19.49	4.78	5.92	0.00	0.28	0.39	0.66	0.27	0.43

NOTES

*** A1-CCU-QC-901C sample is a split sample of A1-CCU-P2-006C.**

ROD Amendment Cleanup Criteria (includes background of 1 pCi/g):

Ra-226 6 pCi/g
Th-230 6 pCi/g
U-nat 76 pCi/g

BASED ON RADIOLOGICAL SAMPLE RESULTS FOR PHASE 2, ALL COLORADO CHRISTIAN UNIVERSITY SOIL SAMPLES ARE BELOW THE ROD AMENDMENT CLEANUP CRITERIA. THESE SAMPLE RESULTS ARE COMPARABLE TO COVER MATERIAL SAMPLE RESULTS FOR THE SHATTUCK SITE. THEREFORE, THE COLORADO CHRISTIAN UNIVERSITY MATERIAL IS SUITABLE TO BE USED AS BACKFILL AT THE SHATTUCK SITE.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY RCRA METALS SOIL SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SOIL CLEANUP CRITERIA FOR RCRA METALS (mg/kg) *:				**160**	**5,400**	**99.5**	**53.94**	**540**	**17.66**	**390**	**490**	**390**
A1-CCU-P2-001A	Phase 2	0-10	4/27/2006	3.9	270	0.45	16.0	20.0	0.0210	0.40	1.00	0.560
A1-CCU-P2-001B		10-20		1.9	280	0.38	10.0	7.9	0.0057	0.31	1.00	0.560
A1-CCU-P2-002A	Phase 2	0-10	4/27/2006	4.5	310	0.64	20.0	20.0	0.0230	0.31	1.00	0.580
A1-CCU-P2-002B		10-20		1.5	220	0.43	10.0	6.9	0.0046	0.31	1.00	0.570
A1-CCU-P2-003A	Phase 2	0-10	4/27/2006	4.1	330	0.55	19.0	21.0	0.0280	0.32	1.10	0.590
A1-CCU-P2-003B		10-20		3.6	250	0.35	11.0	8.5	0.0048	0.31	1.00	0.580
A1-CCU-P2-004A	Phase 2	0-10	4/27/2006	3.6	260	0.48	18.0	14.0	0.0230	0.51	1.00	0.590
A1-CCU-P2-004B		10-20		1.4	150	0.23	8.7	7.2	0.0036	0.91	1.00	0.580
A1-CCU-P2-005A	Phase 2	0-10	4/27/2006	4.4	300	0.72	16.0	23.0	0.0830	0.32	1.00	0.580
A1-CCU-P2-005B		10-20		4.9	260	0.38	13.0	11.0	0.0073	0.41	1.10	0.610
A1-CCU-P2-006A	Phase 2	0-10	4/27/2006	4.8	330	0.58	19.0	15.0	0.0390	0.51	1.10	0.630
A1-CCU-P2-006B		10-20		3.2	510	0.37	10.0	8.7	0.0034	1.80	1.00	0.580
A1-CCU-QC-901A **	Phase 2	0-10	4/27/2006	4.1	300	0.53	19.0	20.0	0.0230	0.30	1.00	0.560
A1-CCU-QC-901B ***		10-20		3.9	270	0.33	9.5	7.1	0.0046	0.50	1.00	0.580

NOTES

*** Source of Soil Cleanup Criteria for Arsenic, Lead, and Selenium: Record of Decision (USEPA, 1992); Source for Molybdenum: USEPA Residential Screening Criteria; Source for Cadmium, Chromium, and Mercury: CDPHE, Hazardous Materials and Waste Management Division; and Source for Barium and Silver:**
Fact Sheet #12 - Soil Cleanup Level Look-Up Table Under the Voluntary Remediation Program.
**** A1-CCU-QC-901A sample is a split sample of A1-CCU-P2-001A.**
***** A1-CCU-QC-901B sample is a split sample of A1-CCU-P2-003B.**

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY TPH-DRO AND TPH-GRO SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Total Petroleum Hydrocarbons	
				Diesel Range Organics (mg/kg)	Gasoline Range Organics (mg/kg)
A1-CCU-P2-001A	Phase 2	0-10	4/27/2006	9.8	0.92
A1-CCU-P2-001B		10-20		1.2	0.93
A1-CCU-P2-002A	Phase 2	0-10	4/27/2006	1.2	0.78
A1-CCU-P2-002B		10-20		1.2	0.79
A1-CCU-P2-003A	Phase 2	0-10	4/27/2006	2.4	0.86
A1-CCU-P2-003B		10-20		1.2	0.89
A1-CCU-P2-004A	Phase 2	0-10	4/27/2006	1.2	0.86
A1-CCU-P2-004B		10-20		1.2	0.82
A1-CCU-P2-005A	Phase 2	0-10	4/27/2006	1.2	0.81
A1-CCU-P2-005B		10-20		1.3	0.71
A1-CCU-P2-006A	Phase 2	0-10	4/27/2006	1.3	0.69
A1-CCU-P2-006B		10-20		1.2	0.67
A1-CCU-QC-901A *	Phase 2	0-10	4/27/2006	1.2	0.78
A1-CCU-QC-901B **		10-20		1.2	0.89

NOTES

*** A1-CCU-QC-901A sample is a split sample of A1-CCU-P2-001A.**

**** A1-CCU-QC-901B sample is a split sample of A1-CCU-P2-003B.**

State of Colorado's Oil Inspection Section Threshold Value for Total Petroleum Hydrocarbons in soil is 500 mg/kg.

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY PESTICIDES SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result (ug/kg)	
A1-CCU-P2-002B	Phase 2	10-20	4/27/2006	4,4'-DDD	0.65	U
				4,4'-DDE	0.28	U
				4,4'-DDT	0.71	U
				Aldrin	0.30	U
				alpha-BHC	0.26	U
				alpha-Chlordane	0.39	U
				beta-BHC	0.34	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.20	U
				Dieldrin	0.25	U
				Endosulfan I	0.21	U
				Endosulfan II	0.34	U
				Endosulfan sulfate	0.33	U
				Endrin	0.37	U
				Endrin aldehyde	0.25	U
				Endrin ketone	0.25	U
				gamma-BHC (Lindane)	0.17	U
				gamma-Chlordane	0.32	U
				Heptachlor	0.26	U
				Heptachlor epoxide	0.51	U
				Methoxychlor	0.54	U
				Toxaphene	19.00	U
A1-CCU-P2-005A	Phase 2	0-10	4/27/2006	4,4'-DDD	0.66	U
				4,4'-DDE	0.29	U
				4,4'-DDT	0.72	U
				Aldrin	0.30	U
				alpha-BHC	0.26	U
				alpha-Chlordane	0.39	U
				beta-BHC	0.35	U
				Chlordane (technical)	3.60	U
				delta-BHC	0.20	U
				Dieldrin	0.25	U
				Endosulfan I	0.21	U
				Endosulfan II	0.35	U
				Endosulfan sulfate	0.33	U
				Endrin	0.37	U
				Endrin aldehyde	0.26	U
				Endrin ketone	0.26	U
				gamma-BHC (Lindane)	0.17	U
				gamma-Chlordane	0.32	U
				Heptachlor	0.26	U
				Heptachlor epoxide	0.52	U
				Methoxychlor	0.55	U
				Toxaphene	19.00	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS

COLORADO CHRISTIAN UNIVERSITY PCBs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-002B	Phase 2	10-20	4/27/2006	Aroclor 1016	6.1	ug/kg	U
				Aroclor 1221	19.0	ug/kg	U
				Aroclor 1232	6.1	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	6.7	ug/kg	U
				Aroclor 1254	6.6	ug/kg	U
				Aroclor 1260	3.2	ug/kg	U
				Decachlorobiphenyl	77.0	%	
				Decachlorobiphenyl	85.0	%	
				Tetrachloro-m-xylene	81.0	%	
				Tetrachloro-m-xylene	97.0	%	
A1-CCU-P2-005A	Phase 2	0-10	4/27/2006	Aroclor 1016	6.2	ug/kg	U
				Aroclor 1221	19.0	ug/kg	U
				Aroclor 1232	6.2	ug/kg	U
				Aroclor 1242	11.0	ug/kg	U
				Aroclor 1248	6.8	ug/kg	U
				Aroclor 1254	6.7	ug/kg	U
				Aroclor 1260	3.2	ug/kg	U
				Decachlorobiphenyl	79.0	%	
				Decachlorobiphenyl	90.0	%	
				Tetrachloro-m-xylene	89.0	%	
				Tetrachloro-m-xylene	90.0	%	

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-001A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	97	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	80	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	64	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	94	%	
				a,a,a-Trifluorotoluene	98	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	99	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	71	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	73	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	106	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	102	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-001B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	95	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	78	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	98	%	
				a,a,a-Trifluorotoluene	97	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	97	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	79	%	
				o-Terphenyl	73	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	15	%	
				Phenol-d5	70	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	113	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	104	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-002A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	102	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	71	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	103	%	
				a,a,a-Trifluorotoluene	93	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	100	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	76	%	
				o-Terphenyl	68	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	67	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	106	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	104	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-002B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	89	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	65	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	103	%	
				a,a,a-Trifluorotoluene	96	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	85	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	66	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	16	%	
				Phenol-d5	70	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	110	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	97	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-003A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	109	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	67	%	
				2-Fluorophenol	74	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	99	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	78	%	
				o-Terphenyl	72	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	19	%	
				Phenol-d5	71	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	107	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-003B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	105	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	72	%	
				2-Fluorophenol	76	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	71	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	72	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	112	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	101	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-004A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	113	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	69	%	
				2-Fluorophenol	72	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	99	%	
				a,a,a-Trifluorotoluene	98	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	108	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	79	%	
				o-Terphenyl	74	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	69	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	111	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-004B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	97	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	72	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	62	%	
				2-Fluorophenol	68	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	95	%	
				a,a,a-Trifluorotoluene	93	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	103	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	73	%	
				o-Terphenyl	74	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	65	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	104	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-005A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	111	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	81	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	96	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	104	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	83	%	
				o-Terphenyl	72	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	75	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	112	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-005B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	108	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	80	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	71	%	
				2-Fluorophenol	76	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	100	%	
				a,a,a-Trifluorotoluene	95	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	103	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	73	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	22	%	
				Phenol-d5	73	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	109	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-P2-006A	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	107	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	86	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	86	%	
				2-Fluorophenol	83	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	111	%	
				a,a,a-Trifluorotoluene	94	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	103	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	87	%	
				o-Terphenyl	78	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	24	%	
				Phenol-d5	81	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	118	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	115	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-P2-006B	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	107	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	79	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	78	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	99	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	102	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	81	%	
				o-Terphenyl	73	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	17	%	
				Phenol-d5	73	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	111	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	96	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX D - BORROW MATERIAL SAMPLING RESULTS
COLORADO CHRISTIAN UNIVERSITY VOCs AND SVOCs SAMPLE RESULTS (PHASE 2)

Sample ID	Phase	Depth (ft)	Sample Date	Analyte	Laboratory Result		
A1-CCU-QC-901A * (* Note: This sample is a split sample of A1-CCU-P2-001A)	Phase 2	0-10	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	107	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	81	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	66	%	
				2-Fluorophenol	77	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	97	%	
				a,a,a-Trifluorotoluene	103	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	102	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	82	%	
				o-Terphenyl	71	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	14	%	
				Phenol-d5	75	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	112	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	100	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U
A1-CCU-QC-901B ** (** Note: This sample is a split sample of A1-CCU-P2-003B)	Phase 2	10-20	4/27/2006	1,1-Dichloroethene	0.0014	mg/L	U
				1,2-Dichloroethane	0.0013	mg/L	U
				1,2-Dichloroethane-d4	109	%	
				1,4-Dichlorobenzene	0.0012	mg/L	U
				2,4,5-Trichlorophenol	0.029	mg/L	U
				2,4,6-Tribromophenol	77	%	
				2,4,6-Trichlorophenol	0.031	mg/L	U
				2,4-Dinitrotoluene	0.024	mg/L	U
				2-Butanone	0.017	mg/L	U
				2-Fluorobiphenyl	70	%	
				2-Fluorophenol	75	%	
				2-Methylphenol	0.0035	mg/L	U
				3-Methylphenol & 4-Methylphenol	0.0026	mg/L	U
				4-Bromofluorobenzene	100	%	
				a,a,a-Trifluorotoluene	93	%	
				Benzene	0.0016	mg/L	U
				Carbon tetrachloride	0.0019	mg/L	U
				Chlorobenzene	0.0017	mg/L	U
				Chloroform	0.0016	mg/L	U
				Dibromofluoromethane	105	%	
				Hexachlorobenzene	0.018	mg/L	U
				Hexachlorobutadiene	0.0014	mg/L	U
				Hexachloroethane	0.016	mg/L	U
				Nitrobenzene	0.009	mg/L	U
				Nitrobenzene-d5	80	%	
				o-Terphenyl	67	%	
				Pentachlorophenol	0.018	mg/L	U
				Percent Moisture	18	%	
				Phenol-d5	72	%	
				Pyridine	0.032	mg/L	U
				Terphenyl-d14	107	%	
				Tetrachloroethene	0.002	mg/L	U
				Toluene-d8	98	%	
				Trichloroethene	0.0016	mg/L	U
				Vinyl chloride	0.0038	mg/L	U

APPENDIX E

APPENDIX E - BNSF PROPERTY SAMPLING

RAILROAD RIGHT-OF-WAY SAMPLES SUMMARY (BEFORE LOADOUT STRUCTURE CONCRETE SLAB CONSTRUCTION)
OFF-SITE ALPHA SPECTROSCOPY ANALYSIS

Before Loadout Structure Concrete Slab Construction																		
Sample ID	Depth (inches)	Sample Date	Gamma Readings (CPM)	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-234 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-SL-RR-01A	0-6"	12/2/2002	17,000	3.67	0.82	0.65	1.39	0.26	0.09	0.99	0.19	0.11	0.07	0.04	0.04	1.07	0.19	0.04
A1-SL-RR-01B	6-12"	12/2/2002	22,900	4.22	0.89	0.56	1.28	0.24	0.03	0.92	0.17	0.03	0.03	0.03	0.03	1.03	0.18	0.01
A1-SL-RR-02A	0-6"	12/2/2002	16,000	3.75	0.84	0.60	1.62	0.29	0.04	1.28	0.22	0.04	0.07	0.04	0.03	1.20	0.21	0.01
A1-SL-RR-02B	6-12"	12/2/2002	18,100	4.71	0.94	0.59	2.15	0.40	0.02	1.33	0.25	0.03	0.17	0.07	0.02	1.34	0.25	0.03
A1-SL-RR-03A	0-6"	12/2/2002	17,000	3.39	0.76	0.51	2.52	0.46	0.05	1.78	0.30	0.04	0.25	0.08	0.03	1.74	0.30	0.03
A1-SL-RR-03B	6-12"	12/2/2002	22,100	3.82	0.83	0.56	1.57	0.29	0.03	1.23	0.22	0.01	0.13	0.05	0.03	1.41	0.24	0.03
A1-SL-RR-04A	0-6"	12/2/2002	17,800	4.68	0.96	0.69	2.25	0.40	0.05	1.51	0.26	0.04	0.11	0.05	0.02	1.52	0.26	0.03
A1-SL-RR-04B	6-12"	12/2/2002	18,700	3.17	0.74	0.61	2.44	0.42	0.03	1.42	0.24	0.03	0.10	0.05	0.03	1.58	0.26	0.01
A1-SL-RR-05A	0-6"	12/2/2002	20,300	3.94	0.82	0.51	1.68	0.30	0.03	1.41	0.23	0.03	0.10	0.04	0.02	1.30	0.22	0.01
A1-SL-RR-05B	6-12"	12/2/2002	21,800	3.88	0.89	0.70	1.60	0.31	0.06	1.08	0.19	0.04	0.14	0.05	0.03	1.13	0.19	0.03
A1-SL-RR-06A	0-6"	12/3/2002	20,300	6.80	1.10	0.53	4.24	0.69	0.03	2.42	0.37	0.03	0.13	0.05	0.01	2.55	0.39	0.01
A1-SL-RR-06B	6-12"	12/3/2002	19,800	3.77	0.86	0.68	2.29	0.40	0.05	1.78	0.29	0.04	0.11	0.05	0.03	1.81	0.30	0.03
A1-SL-RR-07A	0-6"	12/3/2002	20,400	4.84	0.92	0.50	3.93	0.64	0.04	2.19	0.35	0.03	0.15	0.06	0.04	2.36	0.37	0.01
A1-SL-RR-07B	6-12"	12/3/2002	25,400	5.02	0.98	0.64	2.36	0.41	0.04	1.74	0.28	0.04	0.10	0.05	0.04	1.78	0.29	0.03
A1-SL-RR-08A	0-6"	12/3/2002	23,600	5.20	1.00	0.65	3.06	0.51	0.02	1.87	0.30	0.02	0.11	0.05	0.04	2.00	0.31	0.02
A1-SL-RR-08B	6-12"	12/3/2002	27,300	8.90	1.40	0.50	7.40	1.20	0.02	4.87	0.71	0.04	0.28	0.09	0.04	5.64	0.82	0.04
A1-SL-RR-09A	0-6"	12/3/2002	23,100	4.39	0.88	0.54	2.16	0.38	0.05	1.76	0.28	0.02	0.08	0.04	0.01	1.79	0.29	0.01
A1-SL-RR-09B	6-12"	12/3/2002	23,500	4.99	0.96	0.57	2.12	0.37	0.03	1.34	0.23	0.02	0.07	0.04	0.03	1.62	0.27	0.03
A1-SL-RR-10A	0-6"	12/3/2002	21,700	3.84	0.82	0.52	3.13	0.54	0.05	2.02	0.35	0.06	0.11	0.06	0.05	2.03	0.35	0.05
A1-SL-RR-10B	6-12"	12/3/2002	24,600	4.34	0.90	0.66	2.89	0.50	0.03	1.97	0.32	0.02	0.14	0.06	0.03	2.31	0.36	0.03
A1-SL-QC-008 *	0-6"	12/2/2002	18,700	3.86	0.84	0.64	2.32	0.39	0.03	1.44	0.37	0.08	0.08	0.08	0.06	1.60	0.40	0.05

NOTE:
*** A1-SL-QC-008 sample is a split sample of A1-SL-RR-04B**

APPENDIX E - BNSF PROPERTY SAMPLING

RAILROAD RIGHT-OF-WAY SAMPLES SUMMARY
(BEFORE LOADOUT STRUCTURE CONCRETE SLAB CONSTRUCTION)
SITE-SPECIFIC METALS ANALYSIS

Before Loadout Structure Concrete Slab Construction					
Sample ID	**Depth (inches)**	**Sample Date**	**Asenic (mg/Kg)**	**Lead (mg/Kg)**	**Selenium (mg/Kg)**
A1-SL-RR-01A	0-6"	12/2/2002	4.00	100.00	0.81
A1-SL-RR-01B	6-12"	12/2/2002	3.00	46.00	1.10
A1-SL-RR-02A	0-6"	12/2/2002	1.50	9.70	2.10
A1-SL-RR-02B	6-12"	12/2/2002	1.50	12.00	2.40
A1-SL-RR-03A	0-6"	12/2/2002	2.80	60.00	1.30
A1-SL-RR-03B	6-12"	12/2/2002	4.90	130.00	1.10
A1-SL-RR-04A	0-6"	12/2/2002	1.90	17.00	2.10
A1-SL-RR-04B	6-12"	12/2/2002	2.20	59.00	4.00
A1-SL-RR-05A	0-6"	12/2/2002	2.70	38.00	1.30
A1-SL-RR-05B	6-12"	12/2/2002	2.50	38.00	1.20
A1-SL-RR-06A	0-6"	12/3/2002	4.20	23.00	4.60
A1-SL-RR-06B	6-12"	12/3/2002	2.80	17.00	3.40
A1-SL-RR-07A	0-6"	12/3/2002	5.20	59.00	3.60
A1-SL-RR-07B	6-12"	12/3/2002	3.60	41.00	1.30
A1-SL-RR-08A	0-6"	12/3/2002	4.50	18.00	2.10
A1-SL-RR-08B	6-12"	12/3/2002	6.00	32.00	4.30
A1-SL-RR-09A	0-6"	12/3/2002	4.70	54.00	2.90
A1-SL-RR-09B	6-12"	12/3/2002	3.70	45.00	1.10
A1-SL-RR-10A	0-6"	12/3/2002	2.90	16.00	3.10
A1-SL-RR-10B	6-12"	12/3/2002	4.50	25.00	3.60

APPENDIX E - BNSF PROPERTY SAMPLING

RAILROAD RIGHT-OF-WAY SAMPLES SUMMARY (AFTER LOADOUT STRUCTURE CONCRETE SLAB DEMOLISHED)

ON-SITE GAMMA SPECTROSCOPY ANALYSIS

After Loadout Structure Concrete Slab Demolished															
Sample ID	Depth (inches)	Sample Date	Gamma Readings (CPM)	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-SL-RR-01C	0-12"	7/31/2006	19,900	1.18	0.07	0.05	-1.14	3.49	5.92	0.14	0.30	0.40	0.95	0.28	0.50
A1-SL-RR-02C	0-12"	7/31/2006	17,300	0.95	0.06	0.05	-15.78	4.27	5.86	-0.13	0.30	0.39	0.79	0.27	0.43
A1-SL-RR-03C	0-12"	7/31/2006	17,200	1.12	0.07	0.05	-4.10	3.52	5.92	0.16	0.29	0.39	0.86	0.27	0.44
A1-SL-RR-04C	0-12"	7/31/2006	16,600	1.08	0.07	0.05	-7.30	3.68	5.82	0.05	0.30	0.40	0.91	0.30	0.47
A1-SL-RR-05C	0-12"	7/31/2006	20,600	1.14	0.07	0.05	-5.33	3.67	5.87	-0.05	0.30	0.39	0.63	0.30	0.48
A1-SL-RR-06C	0-12"	7/31/2006	17,600	1.09	0.07	0.05	-0.39	1.85	5.86	-0.13	0.30	0.40	0.73	0.43	0.72
A1-SL-RR-07C	0-12"	7/31/2006	19,600	1.35	0.07	0.05	-11.59	3.92	5.82	-0.24	0.30	0.39	1.06	0.23	0.36
A1-SL-RR-08C	0-12"	7/31/2006	17,800	1.20	0.07	0.05	-10.49	3.39	5.81	-0.23	0.30	0.39	0.94	0.26	0.40
A1-SL-RR-09C	0-12"	7/31/2006	17,900	0.99	0.06	0.05	-5.54	3.65	5.85	0.16	0.29	0.39	0.70	0.30	0.48
A1-SL-RR-10C	0-12"	7/31/2006	18,300	1.58	0.09	0.04	1.28	3.35	5.96	-0.13	0.30	0.40	0.90	0.27	0.45

APPENDIX E - BNSF PROPERTY SAMPLING

RAILROAD RIGHT-OF-WAY SAMPLES SUMMARY (BEFORE USE OF THE NEW LOADOUT AREA)

ON-SITE GAMMA SPECTROSCOPY ANALYSIS

Before Use of the New Loadout Area															
Sample ID	Depth (inches)	Sample Date	Gamma Readings (CPM)	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-SL-RR-001	12-18"	6/7/2006	13,900	1.73	0.09	0.05	-15.69	4.14	5.94	0.14	0.30	0.40	1.54	0.30	0.46
A1-SL-RR-002	12-18"	6/7/2006	14,600	2.74	0.13	0.04	4.84	1.35	4.11	0.13	0.29	0.38	2.49	0.26	0.41
A1-SL-RR-003	12-18"	6/7/2006	15,300	3.64	0.16	0.05	-46.20	5.70	5.90	0.31	0.29	0.39	3.24	0.36	0.39
A1-SL-RR-004	12-18"	6/7/2006	14,100	1.91	0.10	0.04	2.50	1.32	4.02	0.39	0.29	0.39	2.00	0.23	0.42
A1-SL-RR-005	12-18"	6/7/2006	13,900	1.54	0.08	0.05	-3.38	3.44	5.81	0.10	0.29	0.39	1.35	0.37	0.61

APPENDIX E - BNSF PROPERTY SAMPLING

RAILROAD RIGHT-OF-WAY SAMPLES SUMMARY (AFTER USE OF THE NEW LOADOUT AREA)

ON-SITE GAMMA SPECTROSCOPY ANALYSIS

After Use of the New Loadout Area															
Sample ID	Depth (inches)	Sample Date	Gamma Readings (CPM)	Ra-226 (pCi/g)			Th-230 (pCi/g)			U-235 (pCi/g)			U-238 (pCi/g)		
				Result	Error	MDA	Result	Error	MDA	Result	Error	MDA	Result	Error	MDA
A1-SL-RR-001A	12-18"	7/27/2006	22,700	1.39	0.08	0.05	-14.95	4.07	5.88	0.23	0.30	0.40	1.61	0.30	0.45
A1-SL-RR-002A	12-18"	7/27/2006	22,600	2.42	0.12	0.04	2.70	1.31	4.33	0.03	0.29	0.39	2.55	0.26	0.41
A1-SL-RR-003A	12-18"	7/27/2006	24,600	2.36	0.11	0.04	3.05	1.33	4.35	-0.11	0.30	0.39	2.63	0.27	0.42
A1-SL-RR-004A	12-18"	7/27/2006	21,700	1.67	0.09	0.05	-18.07	4.18	5.85	0.16	0.29	0.39	1.62	0.27	0.39
A1-SL-RR-005A	12-18"	7/27/2006	22,700	1.27	0.07	0.05	-2.16	3.49	5.92	0.13	0.30	0.40	1.14	0.31	0.48

APPENDIX F

APPENDIX F – COMMUNITY HEALTH AND SAFETY MONITORING RESULTS

Ambient air monitoring at the Shattuck site started in August 2002 prior to the start of demolition activities.

The radionuclide air emissions of concern were Thorium-230, Radium-226, and natural uranium. This sampling and analysis was performed to satisfy the requirement of 40 CFR Part 61 Subpart I – National Emission Standards for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and not covered by Subpart H. This regulation states that emissions of radionuclides, including iodine, to the ambient air from a facility regulated under this subpart shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/yr. For the Shattuck site, the highest cumulative 12-month public dose during the 4 months of monitoring was approximately 0.4 mrem measured between December 2002 and November 2003.

Site perimeter air monitoring was performed for the following heavy metals: lead, arsenic, selenium, and molybdenum. The decision to monitor molybdenum was made on July 8, 2004. The air quality criteria to not be exceeded at the site were as follows:

- Lead @1.5 $\mu g/m^3$ (based on National Ambient Air Quality Standards)
- Arsenic @ 0.041 $\mu g/m^3$ (based on EPA Region III Superfund Risk Based Concentration Table dated 4/25/2003)
- Selenium @18 $\mu g/m^3$ (based on EPA Region III Superfund Risk Based Concentration Table dated 4/25/2003)
- Molybdenum @ 18 $\mu g/m^3$ (based on EPA Region III Superfund Risk Based Concentration Table dated 4/25/2003)

The maximum metal air concentrations at any one of the samplers during the 4 year monitoring period were as follows:

- Lead at 0.0222 $\mu g/m^3$ in February, 2004
- Arsenic at 0.00586 in August, 2003
- Selenium at 0.003 in August, 2003
- Molybdenum at 0.02198 in June, 2006

As shown in the above discussion, exposure limits for the general public were not exceeded during the execution of work at the Shattuck site.

APPENDIX G

APPENDIX G - COST BREAKDOWN SUMMARY
MONTHLY VARIANCE REPORT

SHATTUCK CHEMICAL SUPERFUND SITE - DELIVERY ORDER #31
MONTHLY COST REPORT

STATUS @ PERIOD ENDING: 08/01/06 - 08/31/06
REPORT PRINTED: 9/25/2006

WBS	Description	WAD #	A Original Budget	B Revised Budget	Authorized Budget By WAD	C Cost To-Date	D Estimate To Complete	C+D Estimated Final Cost	B-(C+D) Variance at Completion	% Physical	% Financial	Comments
.01.10	Complete Const. Mobilization/Installation	1	$771,330	$972,968	$972,968	$942,925	$0	$942,925	$30,043	100%	97%	
.01.20	Project Structure - Erection	1	$138,741	$144,731	$144,731	$144,728	$0	$144,728	$3	100%	100%	
.01.21	Project Structure - Moves & Maintenance	1	$0	$1,552,216	$1,552,216	$1,770,157	$0	$1,770,157	($217,941)	100%	114%	
.01.22	Project Structure - Forced Account	1	$0	$43,202	$43,202	$332,931	$0	$332,931	($289,729)	100%	771%	
.01.23	Trestle - Forced Account	1	$0	$0	$0	$290,321	$0	$290,321	($290,321)	0%	0%	
.01.25	Bannock ROW Activities	1	$0	$349,650	$349,650	$323,990	$0	$323,990	$25,660	100%	93%	
.01.26	Building Demolition	1	$0	$508,356	$508,356	$457,880	$34,819	$492,699	$15,657	93%	90%	
.01.30	Mining/Excavation & Material Segregation	1	$535,244	$4,254,562	$4,254,562	$4,116,904	$150,521	$4,267,425	($12,863)	96%	97%	
.01.40	Load-out Operations	1	$556,440	$2,283,388	$2,283,388	$1,998,559	$87,081	$2,085,640	$197,748	96%	88%	
.01.50	Env. Control Systems & Monitoring Program	1	$266,580	$3,828,298	$3,828,298	$3,388,684	$148,693	$3,537,377	$290,921	96%	89%	
.01.60	On-site Lab & Related Control Operations	1	$470,033	$2,287,190	$2,287,190	$2,129,293	$85,966	$2,215,259	$71,931	96%	93%	
.01.70	Final Status Survey Sampling & Analysis	1	$37,980	$237,747	$237,747	$97,207	$8,868	$106,075	$131,672	96%	41%	
.01.80	Backfilling & Site Restoration	1	$25,254	$1,255,962	$1,255,962	$821,533	$46,948	$868,481	$387,481	96%	65%	
.01.90	Site Indirects	1	$247,769	$1,263,282	$1,263,282	$1,333,850	$46,613	$1,380,463	($117,181)	96%	106%	
.11.00	Home Office Support	1	$184,594	$1,662,862	$1,662,862	$1,499,910	$62,401	$1,562,311	$100,551	96%	90%	
.12.00	ASFI Laborer Transfer	1	$0	$15,424	$15,424	$15,424	$0	$15,424	$0	100%	100%	
.13.00	Building Repair/Weather Damages	1	$0	$48,829	$48,829	$68,150	$0	$68,150	($19,321)	100%	140%	
.13.99	NOV Related Issues/Support	1	$0	$0	$0	$18,311	$0	$18,311	($18,311)	0%	0%	
	WAD 1 SUBTOTAL		$3,233,965	$20,708,667	$20,708,667	$19,750,757	$671,910	$20,422,667	$286,000	97%	95%	**95.37%**
	Fee on WAD 1	2	$229,611	$1,470,320	$1,470,320	$1,402,308	$68,012	$1,470,320	$0	N/A	95%	**95.37%**
	WAD No. 1 & 2 TOTALS	1 & 2	$3,463,576	$22,178,987	$22,178,987	$21,153,065	$739,922	$21,892,987	$286,000	97%	95%	**Authorized WAD Funding % Expended**

APPENDIX G - COST BREAKDOWN SUMMARY
MONTHLY VARIANCE REPORT

SHATTUCK CHEMICAL SUPERFUND SITE - DELIVERY ORDER #31
MONTHLY COST REPORT

STATUS @ PERIOD ENDING: 08/01/06 - 08/31/06
REPORT PRINTED: 9/25/2006

WBS	Description	WAD #	A Original Budget	B Revised Budget	Authorized Budget By WAD	C Cost To-Date	D Estimate To Complete	C+D Estimated Final Cost	B-(C+D) Variance at Completion	% Physical	% Financial	Comments
.03.01	Liability Insurance	3	$166,174	$296,961	$296,961	$296,961	$0	$296,961	$0	100%	100%	
	WAD 3 SUBTOTAL		$166,174	$296,961	$296,961	$296,961	$0	$296,961	$0	100%	100%	**100.00%**
	Fee on WAD 3	4	$11,798	$29,776	$29,776	$29,776	$0	$29,776	$0	N/A	100%	**100.00%**
	WAD No. 3 & 4 TOTALS	4 & 5	$177,972	$326,737	$326,737	$326,737	$0	$326,737	$0	100%	100%	**Authorized WAD Funding % Expended**
	TOTAL PROJECT SUMMARY - Reimbursable Expenses (Excludes Fee): Wad 1 & 3		$3,400,139	$21,005,628	$21,005,628	$20,047,718	$671,910	$20,719,628	$286,000	97%	95%	
	FEE Wad 2 & 4		$241,409	$1,500,096	$1,500,096	$1,432,084	$68,012	$1,500,096	$0	N/A	95%	
	TOTAL SUMMARY INCLUDING FEE:		$3,641,548	$22,505,724	$22,505,724	$21,479,802	$739,922	$22,219,724	$286,000	97%	95%	

Definitions:
Cost to Date = Current Period Actual Costs + Previous Periods Cumulative Costs (total revenue - fee)
Estimated Final Cost = Revised Budget - Cumulative Budgeted Cost of Work Performed + Expended to Date
Variance = Revised Budget - Cost at Completion
Estimate to Complete = Revised Budget - Cumulative Budgeted Cost of Work Performed
Fee = Calculation based on Percent Expended

Notes:

At the current BURN rate, funding will allow an estimated 11.5 weeks of work/demob

Schedule	
Schedule % Complete (BCWS/ACWP)	104%
Actual % Complete (BCWP/ACWP)	101%
CPI (BCWP/ACWP)	1.01
SPI (BCWP/BCWS)	0.98
Project Completion Date - Target	12/23/2006
Project Completion Date - Forecast	12/23/2006
Cash Flow Status	
Invoiced To-Date	$20,509,958.18
Paid To-Date	$20,303,221.82

The remaining funds after Force Account Payments $957,910.34