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RCRA FACILITY INVESTIGATION REPORT
FORMER OSCURA RANGE CENTER CONSTRUCTION LANDFILL
(WSMR-05; SWMU 159)

Submitted to:

U.S. Army
White Sands Missile Range
Environment and Safety Directorate
White Sands Missile Range, New Mexico 88002-5048

January 2004

Submitted by:

BAE SYSTEMS
Building 126
White Sands Missile Range, New Mexico 88002

EXECUTIVE SUMMARY

WSMR-05 consists of three separate landfill areas located near the Oscura Range Center (ORC) in the northeastern portion of White Sands Missile Range (WSMR). The three SWMUs were designated as WSMR-05 under WSMR's Installation Restoration Program (IRP). The three landfills are designated as Solid Waste Management Units (SWMU) 157, 158, and 159. SWMUs 157 and 158 were remediated in 1998. SWMU 159, the focus of this RCRA Facility Investigation (RFI), is an inactive landfill still present at the ORC. All three SWMUs are currently listed on WSMR's Hazardous and Solid Waste Amendment (HSWA) Corrective Action Module of the Resource Conservation and Recovery Act (RCRA) Part B Permit.

SWMU 159, the Former ORC Construction Landfill, is an inactive trench-type landfill located approximately two miles north of the ORC cantonment area between Range Roads 9 and 11. The SWMU 159 landfill consists of approximately 3 acres of bladed ground with a small amount of visible waste on the surface. Beginning in February 1987, ORC disposed of scrap metal from spent missiles, concrete foundations and other construction debris into a trench approximately 8 feet (ft) to 10 ft deep, 200 ft long and 15 ft wide. Use of the trench for disposal was halted later in 1987 and the debris was covered with 3 ft of native soil, compacted and bladed.

The objective of this RCRA Facility Investigation (RFI) was to determine whether leachate, formed by infiltrating surface water had contaminated soil beneath the SWMU 159 landfill. The approach and implementation to meet the objective consisted of the collection of soil samples from beneath the landfill cell and ramp area south of the cell. All samples were analyzed for compounds including: volatile organic compounds, semi-volatile organic compounds, petroleum hydrocarbons, pesticides, herbicides, phosphorus, explosives, perchlorate, polychlorinated biphenyl and total metals. All activities for this investigation were completed according to an NMED approved work plan.

Soil borings for this investigation were positioned such that samples were collected from locations beneath the landfill and ramp area where contamination would likely be present. However, no Contaminants of Potential Concern (COPCs) were detected in the course of this investigation.

The results of this investigation indicate that leachate has not contaminated soil beneath the landfill or the ramp area. Additionally, this RFI has determined that no exposure pathways (air, soil, surface water, or ground water) to humans exist at the site. Based on the *Screening Level Ecological Risk Assessment* (NMED, 2000), a full Ecological Assessment is not warranted at this time. WSMR recommends removal of debris and clean closure of SWMU 159.

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APPENDIX E Field Lithologic Logs
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LIST OF ACRONYMS

bgs	Below Ground Surface
COPC	Contaminant of Potential Concern
DOT	Department of Transportation
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HHSSL	Human Health Specific Screening Level
HSWA	Hazardous and Solid Waste Amendment
HWB	Hazardous Waste Bureau
IRP	Installation Restoration Program
mg/kg	milligrams/kilograms equivalent to parts per million
NMDGF	New Mexico Department of Game and Fish
NMED	New Mexico Environment Department
ORC	Oscura Range Center
PCB	Polychlorinated biphenyl
PID	Photo-ionization Detector
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SSL	Soil Screening Level
SVOC	Semi-Volatile Organics
SWMU	Solid Waste Management Unit
TDS	Total Dissolved Solids
TI	Technical Inspector
USFWS	United States Fish and Wildlife Service
VOC	Volatile Organic Compound
WSMR	White Sands Missile Range
QA	Quality Assurance
QC	Quality Control

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RCRA FACILITY INVESTIGATION REPORT
FORMER OSCURA RANGE CENTER CONSTRUCTION LANDFILL
(WSMR-05; SWMU 159)

1.0 INTRODUCTION

WSMR-05 consists of three separate landfill areas located near the Oscura Range Center (ORC) in the northeastern portion of White Sands Missile Range (WSMR). The three landfills are designated as Solid Waste Management Units (SWMU) 157, 158, and 159 and are regulated under the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB). The three SWMUs were designated as WSMR-05 under WSMR's Installation Restoration Program (IRP). SWMUs 157 and 158 were remediated in 1998. SWMU 159, the focus of this RCRA Facility Investigation (RFI), is an inactive landfill still present at the ORC. All three SWMUs are currently listed on WSMR's Hazardous and Solid Waste Amendment (HSWA) Corrective Action Module of the Resource Conservation and Recovery Act (RCRA) Part B Permit.

SWMU 157 is located south of the communications building at the ORC cantonment area. Waste at SWMU 157 consisted of insulated wire, scrap metal, wood, tires, paper, and miscellaneous office debris. All waste debris was removed in June 1998 and confirmation samples collected indicated no contamination at the site following debris removal.

SWMU 158 is located one-half mile south of the ORC cantonment area and consisted of a surface pile of debris similar to SWMU 157 but also included spent flare casings. All waste debris was removed in June 1998 along with the SWMU 157 debris. Confirmation samples indicated no contamination was left at the site following debris removal.

SWMU 159, the ORC Construction Landfill, is located approximately 2 miles north of the ORC between Range Roads 9 and 11. The SWMU 159 landfill consists of approximately 3 acres of bladed ground with a small amount of visible waste on the surface. Beginning in February 1987, ORC disposed of scrap metal from spent missiles, concrete foundations and other construction debris in a trench approximately 8 feet (ft) to 10 ft deep, 200 ft long and 15 ft wide. Use of the trench for disposal was halted later in 1987 and the debris was covered with approximately 3 ft of native soil, compacted and bladed.

1.1 Objectives and Scope

The objectives of this investigation were to identify:

- subsurface soil contamination beneath SWMU 159; and
- future actions.

Analytical results from the investigation were compiled and compared to the NMED Soil Screening Levels (SSL) to accurately determine if the former construction landfill poses a risk to human health or the environment. If an NMED SSL is not established for a particular analyte, the Environmental Protection Agency (EPA) Region VI Human Health Specific Screening Levels (HHSSL) were used. For determination of risk to ecological factors, the screening process described in *Screening Level Ecological Risk Assessment* (NMED, 2000) was performed and included as Appendix F to this RFI.

1.2 Approach and Implementation

The approach and implementation to meet the project's objectives consisted of:

- Advancing 5 - 15 ft and 3 - 20 ft soil borings along the north and south side of the landfill for the length of the 200 ft trench. The mast of the drill rig was tilted allowing the soil borings to be advanced at a 40º angle on the outer edge of the landfill to obtain a soil sample from beneath the base of the landfill;
- Four - 7 ft soil borings were advanced on a grid through the debris scattered in the dumping process for the collection of soil samples; and
- One - 20 ft soil boring and 1 - 30 ft soil boring were augered to the north of the landfill to obtain background samples for comparison.

All soil samples collected were analyzed for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), petroleum hydrocarbons (diesel range organics (DRO)/gasoline range organics (GRO)), pesticides, herbicides, total phosphorus, explosive residues, perchlorate, polychlorinated biphenyl (PCB) and total metals. All activities for this investigation were completed according to an NMED approved work plan titled *Sampling and Analysis Work Plan for the Former Oscura Range Center Construction Landfill, Solid Waste Management Unit 159 (DSERTS WSMR-05)* (MEVATEC, 2001).

2.0 SITE DESCRIPTION

The following sections provide regional and general site descriptions based on location, geology, surface water, groundwater, ecology and climatology. The ORC site location map is shown as Figure 2-1 on the following page and should be referred to throughout this section.

2.1 Location

WSMR is a U.S. Army installation under the Developmental Test Command and occupies approximately 3,200 square miles in 5 New Mexico Counties: Doña Ana, Socorro, Lincoln, Otero and Sierra. The SWMU 159 is located in the northeastern portion of the WSMR approximately 2 miles north of the ORC between Range Roads 9 and 11. The ORC is located at N32^{o}29’55.5” longitude and W106^{o}10’19.3” in an area of low topographic relief.

2.2 Geology

WSMR lies within the Mexican Highland Section of the Basin and Range Province. This province is characterized by a series of tilted fault blocks forming longitudinal, asymmetric ridges, or mountains, and broad intervening basins. The geology of WSMR consists predominantly of the Tularosa Basin and surrounding mountain ranges. Figure 2-2 is a cross-section through the Tularosa Basin and surrounding mountain ranges. The San Andres Mountains, San Augustin, and Oscura Mountains border the Tularosa Basin on the west while the Sacramento Mountains form the eastern border. A narrow region of north-south-trending, large-displacement normal faulting separates the mountains from the basin resulting in the change in relief across WSMR. The average elevation of the Tularosa Basin is 4,000 ft above mean sea level. The majority of WSMR property including most test facilities is located within the Tularosa Basin (WSMR, 1998).

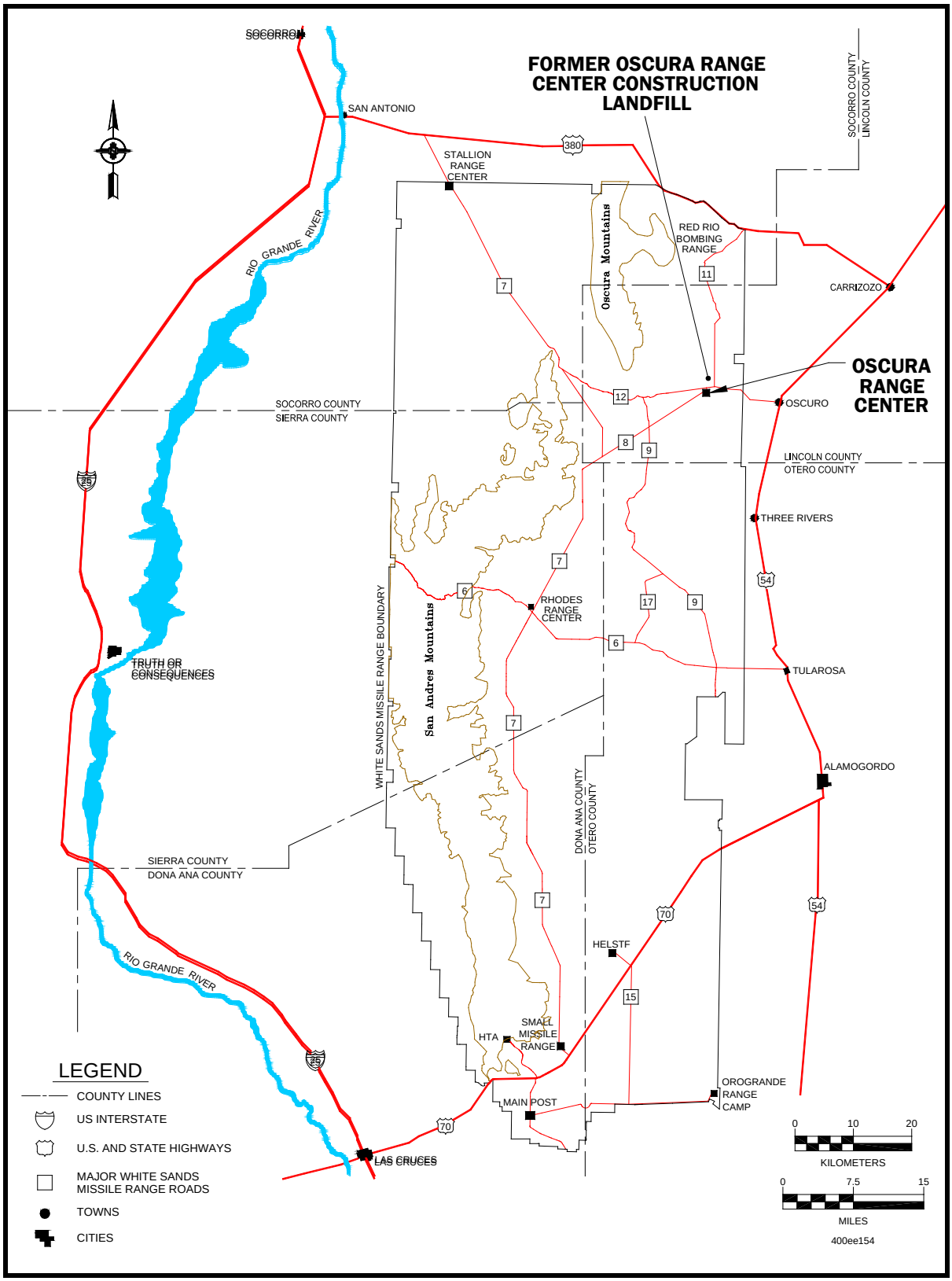

Figure 2-1. Oscura Range Center Site Location Map.

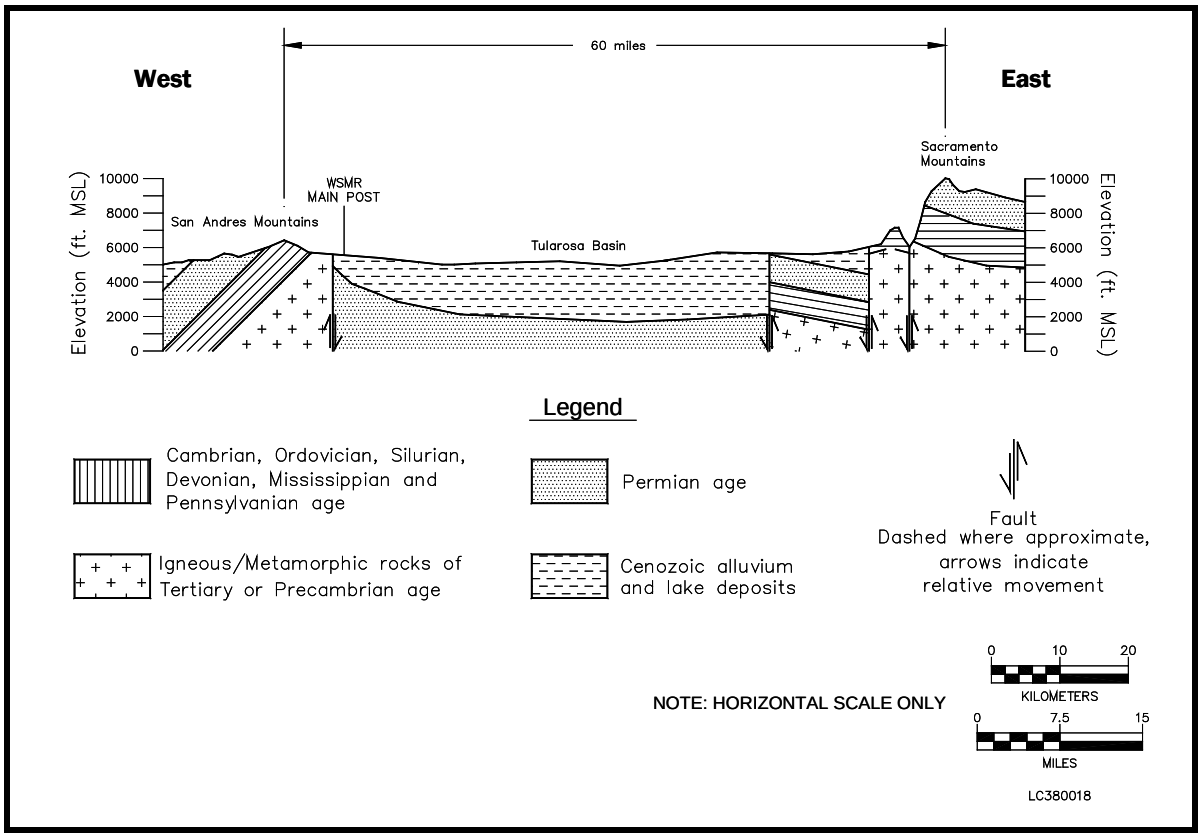

Figure 2-2.
Mexican Highland Section, Basin and Range Province, Tularosa Basin Cross Section.

The San Andres range trends north-south for approximately 85 miles along the western border of WSMR and varies in elevation from approximately 5,700 ft at San Augustin pass, where Highway 70 crosses the mountains, to over 9,000 ft at Salinas Peak, the highest point on WSMR. The San Andres Mountains form the westward dipping limb of a broad anticlinal structure whose axial plane follows the Tularosa Valley. The mountains are composed of a thick sequence of sedimentary rocks [Mississippian to Pennsylvanian limestones, sandstones, and shales] which dip westward on the western limb of the anticline (Kottlowski et al., 1956). The Organ Mountain fault and Artillery Range fault zones extend from El Paso, Texas to the Mockingbird Gap along the eastern base of the San Andres Mountains. These fault zones are composed of large-displacement normal faults, which promoted the uplift of the fault block mountain ranges (San Andres) above the Tularosa Basin and are the result of continued extension in the Rio Grande Rift (Seager, 1981).

The Oscura Mountains extend north and east from the San Andres mountain range, forming the northern terminus of the Tularosa Basin. The Oscura Mountains are bounded on the west by the Jornada del Muerto basin, on the east by the northern-most limit of the Tularosa Basin, and on the north by Chupadera Mesa. The Oscura Uplift is a basement-cored uplift formed by the large-displacement normal fault on its western margin (Organ Mountain fault and Artillery Range fault zone). Paleozoic sedimentary rocks cap the Precambrian basement rocks (Precambrian granite) and dip northward and eastward towards the Tularosa Valley floor and Chupadera Mesa.

The Sacramento Mountains form an asymmetrical ridge with a steep escarpment on the east and a broad alluvial apron on the west. The escarpment marks a major fault zone along the eastern edge of the Sacramento Mountains overlooking the downthrown Tularosa Valley. The fault zone is composed of normal faults where the Sacramento Mountains were uplifted relative to the downdropped Tualrosa Basin. The Sacramento Mountains contain a series of strike valleys that cut into well exposed rocks ranging from Precambrian granites to Paleozoic through tertiary sedimentary rocks [limestones, sandstones, and shales] (Kottlowski, 1956). These sedimentary rocks, along with those in the San Andres Mountains, provide the source for gypsum and other evaporite minerals (mineral salts) prevalent within the Tularosa Basin.

The Tularosa Basin contains thick sequences of Tertiary and Quaternary age alluvial and bolson fill deposits. These sediments, more than 5,000 ft thick in some areas, consist mainly of silt, sand, gypsum and clay weathered from the surrounding mountain ranges. The average elevation of the basin floor is 4,000 ft above mean sea level and surface features consist of flat sandy areas, sand dunes, basalt flows, and playas (dry lake beds).

The nature of the bolson-fill deposits varies both laterally and vertically throughout the Tularosa Basin. Coarse-grained, poorly sorted sediments deposited near mountain fronts grade into fine-grained, well sorted sediments towards the center of the basin (Kelly, 1973). Sediments further from the mountain fronts also contain a greater percentage of clay and gypsum. Vertically, the sediments are reported to become finer-grained and more consolidated until reaching a laterally continuous clay unit at about 1,000 ft below ground surface (Kelly and Hearne, 1976).

In general, the stratigraphy is represented by unconsolidated to partially consolidated, fine to medium-grained sand with subordinate amounts of clay. Caliche is present as discrete layers and nodules throughout the stratigraphic section. Although no faults within the basin fill are mapped within the immediate area, Quaternary faulting is known to exist within the region. These faults are reported to occur within the unconsolidated bolson sediments, trend north to south, and are most common near the mountain fronts. Orr and Myers (1986) divide the Tularosa Basin fill deposits into 5 distinct units which include:

- Coarse to fine-grained deposits, which occur in gently sloping alluvial fans along the basin margin. The alluvial fans spread outward from the surrounding mountain slopes and coalesce into flat alluvial plains toward the basin interior. These fan deposits interfinger with lacustrine (lake) and alluvial deposits of the central part of the Tularosa Basin.
- Fine-grained sediments formed from lacustrine deposition extend throughout most of the Tularosa Basin. These deposits consist mainly of clay and evaporites with minor sand beds and occur near surface in the northern part of the basin and at depth in the southern part of the basin.
- Fluvial-eolian sand, gravel, and clay deposits occur in the southern part of the basin, near Fort Bliss, extending from the Organ and Franklin Mountains and south to the Hueco Mountains.
- Gypsiferous evaporite deposits of the Lake Lucero-White Sands area occupy the White Sands National Monument (WSNM) and areas administered by WSMR including the Lake Lucero area and the alkali flats north of Lake Lucero. These deposits occur as dense recrystallized gypsum, gypsum sand dunes, and alluvial deposits. Hard caliche

(cemented with recrystallized gypsum) is present at or near surface in the dry lake gypsum deposits of the central portion of the basin.

- The last depositional unit is described as composed of coarse-grained deposits saturated with saline water in the central portion of the Tularosa Basin.

Volcanic deposits (the Malpais) occur in the northern portion of the Tularosa Basin in the form of basaltic lava flows. The Malpais volcanics extend from northwest of Carrizozo, New Mexico to south of the ORC in the northern portion of WSMR. The Malpais volcanics rise up to 200 ft above the Tularosa Basin floor and are approximately 30 miles long and range from 0.5 to 5 miles wide (WSMR, 1998).

2.3 Surface Water

Natural surface waters on WSMR are primarily ephemeral due to the semi-arid climate. Most watercourses flow intermittently during and shortly after intense, localized storm events. These arroyos are typically incised on the alluvial fans shed from the San Andres Mountains and the Oscura Mountain Range and terminate in the Tularosa and Jornada del Muerto Basins. Water that reaches the basin seeps into the subsurface or evaporates. No surface water flows out of the Tularosa Basin.

Salt Creek originates on the southwest side of the Oscura Mountains and flows south along the western side of the Tularosa Basin. Salt Creek terminates in the alkali flats in the central portion of the basin. A portion of Salt Creek is perennial and provides critical habitat for the White Sands pupfish (Cyprinodon tularosa). Salt Creek and Three Rivers Creek, which carry water from the northeastern side of the Tularosa Basin, discharge into evaporative playa lakes in the center of the basin. The largest of these playas are Lumley Lake and Big Salt Lake. Another large playa lake, Lake Lucero, receives storm water from the southern San Andres range and is the source of evaporite minerals that form the gypsum sand dunes of White Sands National Monument.

2.4 Groundwater

The fault-bounded basins of the Tularosa Basin and Range Physiographic Province are filled with sediments eroded from the surrounding mountains. Groundwater flows from the mountainous recharge areas toward the central portions of the basins. The groundwater flows in unconsolidated basin sediments, known as bolson deposits. Travel and residence time in the bolson deposits allows for mineral dissolution in the ground water. Ground water that has traveled from the mountain recharge areas to the center of the Tularosa Basin is generally non-potable due to high total dissolved solids (TDS) concentrations.

Groundwater within the basement-cored uplifts in the Basin and WSMR region of New Mexico generally occurs under unpredictable fracture-flow conditions in the Precambrian basement rock. Faults defining the boundaries between ranges and basins are major sites of recharge to the regional groundwater.

Groundwater montitoring wells have not been installed at SWMU 159, therefore analysis of the groundwater beneath the landfill has not occurred. The groundwater at the ORC Bombing Range located to the west of the construction landfill, has been sampled on a semi-annual basis. Groundwater at the bombing range is at a depth of approximately 200 ft. Laboratory analysis of this groundwater indicates the TDS concentration is over 3,000 milligrams per liter (mg/L). Analysis of the potentiometric surface, as measured within completed WSMR wells and piezometers, show groundwater flow in the area to be in a south – southwest direction. Hydraulic gradient is estimated as 0.075.

2.5 Ecology

Sections 2.5.1 and 2.5.2 describe the regional ecology. Site specific ecology is described in the site visit report included in the *Screening Level Ecological Risk Assessment* (NMED, 2000) (Appendix F).

2.5.1 Flora

SWMU 159 is located within a Chihuahuan desert scrub vegetation community dominated by creosote bush (Larrea tridentata) and honey mesquite (Prosopis glandulosa). Common grasses typically associated with Chihuahuan desert scrub include alkali sacaton (Sporobolus airoides) and bush muhly (Muhlenbergia porteri). On WSMR, there is approximately 548,000 acres of Chihuahuan desert scrub vegetation type (WSMR, 1998).

2.5.2 Fauna

Major taxonomic groups of insects found within the Chihuahuan desert scrub vegetation type include Orthoptera (grasshoppers and crickets), Hemiptera (true bug), Homoptera (cicadas and aphids), Coleoptera (beetles), Lepidoptera (butterflies and moths), Diptera (flies), and Hymenoptera (ants, bees, and wasps). Additionally, the Class Arachnida (scorpions, spiders, and mites) is prevalent.

Reptiles and amphibians comprise an abundant and diverse group of inhabitants at WSMR. The bullsnake (Pituophis melanoleucus), western diamondback rattlesnake (Crotalus atrox), Coachwhip (Masticophis flagellum), side-blotched lizard (Uta stansburiana), greater earless lizard (Cophosaurus texanus), and collared lizard (Crotaphytus collaris) are typically associated with the vegetation type located at the SWMU 159 area.

There are 73 mammals found or expected to occur on WSMR. Species most commonly associated with the Chihuahuan desert scrub vegetation type include Merriam’s kangaroo rat (Dipodomys merriami), Ord’s kangaroo rat (Dipodomys ordii), coyote (Canis latrans), mule deer (Odocoileus hemionus), oryx (Oryx gazella) and bobcat (lynx rufous) (WSMR, 1998).

There are 307 bird species found or expected to occur on WSMR. Most of the smaller birds that occur in Chihuahuan desert scrub (creosote bush) vegetation types are passerines. The more common raptors are Swainson’s hawks (Buteo swainsoni), Red-tailed hawks (Buteo jamaicensis), American kestrel (Falco sparverius), and turkey vultures (Cathartes aura) (WSMR, 1998).

There are 44 sensitive wildlife species that may or potentially occur on WSMR (Table 2-1). A complete list of wildlife species that occur or potentially occur on WSMR is found in the WSMR Range-Wide EIS (WSMR, 1998).

Table 2-1. Sensitive Wildlife Species on WSMR.

Scientific Name	Common Name	Status
Sterna antillarum athalassos	interior least tern	FE
Falco femoralis septentrionalis	northern Aplomado falcon	FE
Falco peregrinus anatum	American peregrine falcon	FE
Grus Americana	whooping crane	FE
Haliaeetus leucocephalus	bald eagle	FE
Canis lupus baileyi	Mexican gray wolf	FE
Falco peregrinus tundrius	artic peregrine falcon	FT
Charadrius melodus circumcinctusp	piping plover	FT
Strix occidentalis lucida	Mexican spotted owl	FT
Empidonax traillii extimus	southwestern willow flycatcher	FPE
Charadrius alexandrinus nivosus	western snowy plover	FPT
Zapus hudsonius luteus	New Mexico meadow jumping mouse	C1
Cyprinodon tularosa	White Sands pupfish	C2
Ammodramus bairdii	Baird's sparrow	C2
Tamias quadrivittatus australis	Organ Mountain Colorado chipmunk	C2
Euderma maculatum	spotted bat	C2
Cicindela nevadica olmosa	Los Olmos tiger beetle	C2
Dereonectes neomericana	Bonita diving beetle	C2
Lytta mirifica	Anthony blister beetle	C2
Phrynosoma cornutum	Texas horned lizard	C2
Accipiter gentiles	northern goshawk	C2
Buteo regalis	ferruginous hawk	C2
Charadrius montanus	mountain plover	C2
Lanius ludovicianus	loggerhead shrike	C2
Plegadis chihi	white-faced ibis	C2
Neotoma micropus leucophaeus	White Sands woodrat	C2
Sigmodon fulviventer goldmani	Hot Springs cotton rat	C2
Cynomys ludovicianus arizonensis	Arizona black tailed prairie dog	C2
Eumops perotis californicus	greater western mastiff bat	C2
Myotis velifer brevis	southwestern cave myotis	C2
Myotis lucifugus	little brown myotis	C2
Ovis canadensis mexicana	desert big horn sheep	E1
Ammodramus savannarum ammolegus	Arizona grasshopper sparrow	E2
Buteogallus antrancinus	common black hawk	E2
Passerina versicolor	varied bunting	E2
Phalacrocorax brasiliensis	neotropic cormorant	E2
Vireo Bellii	Bell's vireo	E2
Vireo vicinior	Gray vireo	E2
Ashmunella harrisi	land snail, no common name	S
Asmunella kochi caballoensis	land snail, no common name	S
Ashmunella kochi kochi	land snail, no common name	S
Ashmunella kochi sanandresensis	land snail, no common name	S
Ashmunella salinasensis	land snail, no common name	S
Oreohelix socorroensis	Oscura Mountain land snail	S

FE Listed by the USFWS as endangered.
FT Listed by the USFWS as threatened.
FPE Proposed by the USFWS as endangered.
FPT Proposed by the USFWS as threatened.
C1 Category 1 candidate species for listing by the USFWS as threatened or endangered.
C2 Category 2 candidate species for listing by the USFWS as threatened or endangered.
E1 Listed by the New Mexico Department of Game and Fish (NMDGF) as endangered (group 1).
E2 Listed by the NMDGF as endangered (group 2).
S Sensitive species. New Mexico species which have been singled out for special consideration.

The northern aplomado falcon (Falco femoralis septentrionalis) is a raptor found in grasslands interrupted by yucca or mesquite. Aplomado falcons were sighted in or near WSMR in 1991 and 1992, and much of the non-mountainous areas of WSMR are considered potential habitat (WSMR, 1998). The aplomado falcon is listed as an endangered species by the U.S. Fish and Wildlife Service (USFWS). SWMU 159 and the surrounding areas are not considered suitable habitat for this falcon.

2.6 Climatology

Average annual precipitation at a gauging station in the Tularosa Basin, southeast of the WSMR main post, is 10.8 inches per year. About 50 percent of the annual precipitation in southern New Mexico occurs during the months of July through September. The average high temperature in the summer is approximately 92 degrees Fahrenheit with the lows reaching 65 degrees Fahrenheit. During the winter months the average high is approximately 57 degrees Fahrenheit and the average low is approximately 36 degrees Fahrenheit. Average annual relative humidity readings are 37 percent. Wind is a climatic factor at WSMR from February to about May. Westerly winds can reach on average 40 miles per hour.

3.0 PREVIOUS INVESTIGATIONS

Three previous investigations were conducted at SWMU 159, which consisted of the collection of two surface soil samples, a geophysical survey, and personnel interview.

3.1 Surface Soil Collection

Two surface soil samples were collected on August 13, 1997. The surface soil samples ORC-LF03-SS01 and ORC-LF03-SS02 were collected from the landfill area, exact locations are unknown. The soil was analyzed for total metals, total phosphorus, pesticides, PCBs, herbicides, VOCs and SVOCs.

Analysis of total metals revealed respective concentrations of chromium in SS01 and SS02 of 25 mg/kg and 26 mg/kg. Analysis revealed respective concentrations of lead in SS01 and SS02 of 23 mg/kg and 26 mg/kg. Both detections were well below NMED residential SSLs. The volatiles acetone and methylene chloride were detected just above their laboratory reporting limits but well below their respective NMED residential SSLs. Two SVOC phthalates were also detected above the laboratory reporting limits but well below NMED residential SSLs. These detections are potentially from laboratory cross-contamination. Low levels of phthalates are commonly emitted from plastics and can be picked up during the laboratory extraction process. Acetone (commonly used as a cleaning solvent in laboratories) and methylene chloride (laboratory extraction solvent) are also common laboratory contaminants at low levels.

No concentrations of pesticides, PCBs or herbicides were detected above reporting limits. A copy of the analytical data is included as Appendix A.

3.2 Geophysical Survey

A geophysical survey was conducted at SWMU 159 on April 27 and May 6, 1998 by Sunbelt Geophysics. A grid of 50 ft centers was applied to the area and an EM-31 ground conductivity meter was applied to the surface. Based on the results of the EM-31, an EM-61 high precision metal locator was used to map areas of interest. The EM-61 was used to delineate large quantities of metal in a strip approximately 200 ft long and 25 ft wide. This strip of buried metal is interpreted as the landfill cell. These dimensions incorporate the "scatter" that was picked up by the survey instrument. The maximum extent 25 ft incorporates the lowest detected response from the survey instrument and cannot reliably be determined as part of the landfill cell. The highest response in the center of the geophysical anomaly is up to 15 ft across. From this, it is inferred that the actual width of the trench is closer to 15 ft as discussed in Section 3.3 from the personnel interview.

In addition, the EM-61 identified a ramp that was supposedly used for vehicles to back up and fill in the trench. The geophysical report is included as Appendix B and was used during this RFI as a guide in the placement of soil borings.

3.3 Facility Personnel Interview

On 27 July 1999, employees of MEVATEC Corporation (Allen Tyree, Alex Martinez, and Jon Wolverton) met with Onie Huffmon at SWMU 159 to view the site and gather information pertaining to the landfill. At that time, Mr. Huffmon was supervisor of the WSMR up-Range Operations Group. Mr. Huffmon stated that in February 1987, a trench approximately 100 ft x 15 ft x 8 ft was completed for use as a sanitary landfill for the ORC. At this time a demolition and removal project of concrete foundations and pads was on-going at ORC. Debris from the removal was placed in the landfill along with scrap wood and scrap metal from used and destroyed missiles. Mr. Huffmon stated that no unexploded ordnance (UXO) had been placed in the landfill.

WSMR became aware of the need to have a permit and certified operators for the landfill for the disposal of sanitary waste. WSMR decided to close the landfill in 1987 and contract a waste hauler from Alamogordo, NM to remove sanitary office waste. The trench was subsequently covered with soil from the original excavation.

4.0 RCRA FACILITY INVESTIGATION

On 4-6 March 2002, 15 soil borings were augered at SWMU 159 for the collection of subsurface soil samples. Eight soil borings were placed along the edge of the interpreted landfill cell (Figure 4-1 on following page) and augered at a 40º angle to vertical so that depth specific samples could be collected beneath the landfill cell without augering directly through the landfill itself. Five vertical soil borings were augered through the ramp area south of the landfill cell for the collection of depth specific soil samples. Additionally, two soil borings were augered north of the area, which was interpreted from the geophysical survey as not being affected by past excavations. Samples were collected from these two borings at depth specific intervals for comparison as background soil chemistry. All samples were analyzed for VOCs, SVOCs, TPH, pesticides, herbicides, total phosphorus, explosive residues, perchlorate, PCBs, and total metals.

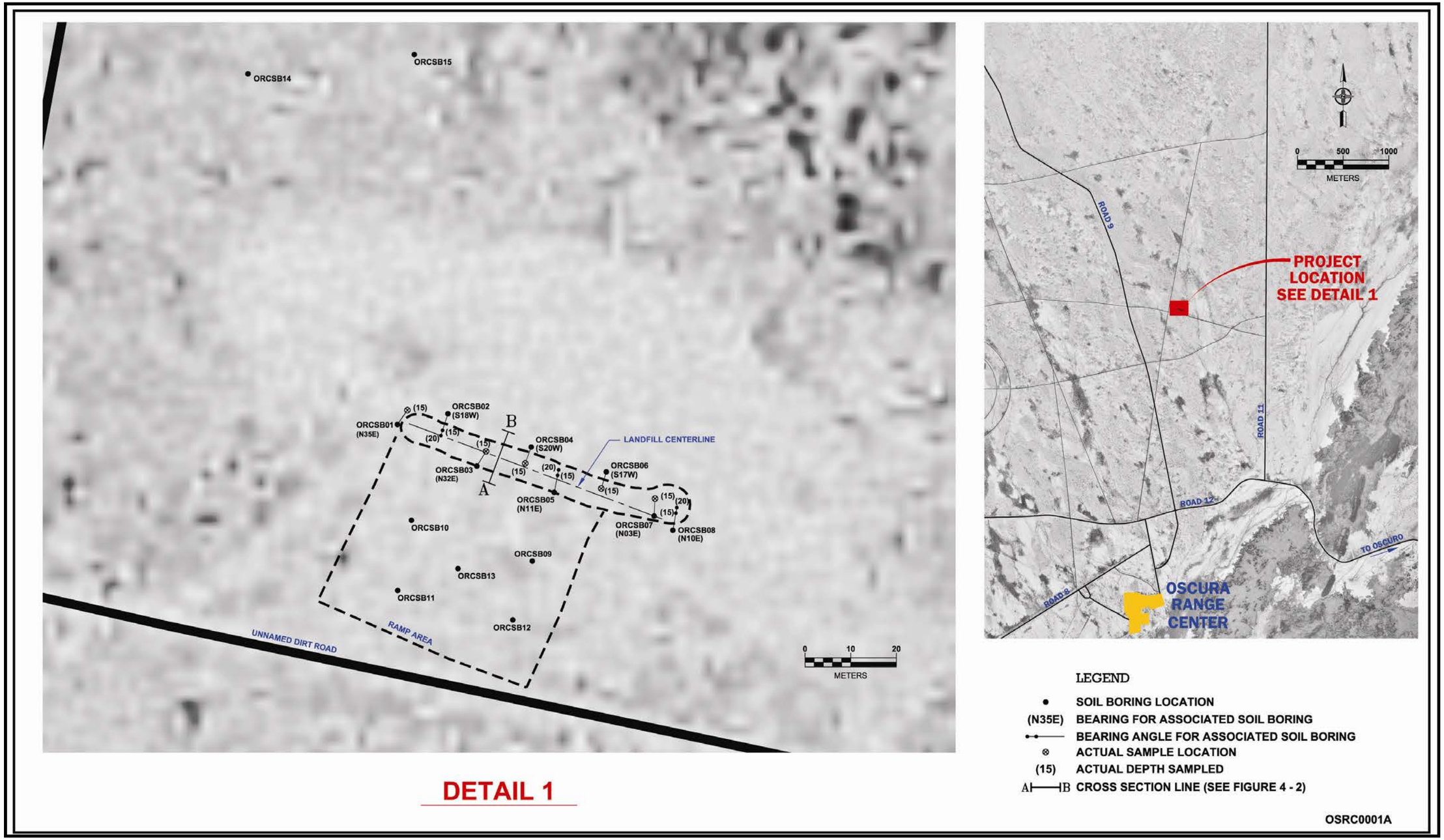

Figure 4-1.
Plan View of the Landfill Cell and Location of Soil Borings.

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Soil borings were completed using a continuous-flight, hollow-stem auger mounted on a CME 75 drill rig. The soil borings were augered using 6 inch inside diameter, 5 ft length auger flights. As the hollow-stem auger was advanced, continuous soil samples were collected using a 3 inch diameter, 5 ft long split-spoon continuous sampler. A photo-ionization detector (PID) (Photograph 4-1) was used to collect volatile readings from the sampling apparatus immediately upon removal from the subsurface. No anomalous readings for VOCs, CO, or H_2S were detected.

Photograph 4-1. Photo Ionization Detector.

Soil samples were collected at the required depth interval (Table 4-1) from the bottom 1 ft of the soil boring. When the split-barrel was removed from the boring and opened, the soil core was carefully transferred to a clean polyvinyl chloride (PVC) tray (Photograph 4-2) for lithologic logging by the field geologist and for collection of chemical samples. All soil cores were photographed for documentation and inclusion in the RFI project files. Chemical samples were placed in clean, new glass jars with Teflon-lined caps provided by the laboratory and packed with zero headspace.

Table 4-1. GPS Coordinates.

GPS Point	Longitude	Latitude	Elevation (ft)
Soil Boring Locations			
ORCSB01	106.168982717	33.529428772	4589.911
ORCSB02	106.168864680	33.529448734	4588.578
ORCSB03	106.168793988	33.529347154	4585.763
ORCSB04	106.168667363	33.529384962	4585.515
ORCSB05	106.168609401	33.529297565	4583.307
ORCSB06	106.168489220	33.529340039	4583.303
ORCSB07	106.168403588	33.529251663	4581.903
ORCSB08	106.168330001	33.529226257	4583.337
ORCSB09	106.168659986	33.529161664	4587.316
ORCSB10	106.168947016	33.529237955	4591.212
ORCSB11	106.168977440	33.529099078	4590.748
ORCSB12	106.168705102	33.529045426	4588.836
ORCSB13	106.168835846	33.529143669	4588.979
ORCSB14	106.169344803	33.530116810	4597.706
ORCSB15	106.168952448	33.530157015	4597.037
Geophysical Survey Grid Locations			
Stake 29	106.168100537	33.529147482	4586.959
Stake 38	106.168259819	33.529175494	4588.245
Stake 39	106.168420604	33.529204155	4589.536
Stake 50	106.168579345	33.529234514	4590.015
Stake 51	106.168737283	33.529263737	4591.509
Stake 68	106.169043756	33.529309862	4593.982
Stake 79	106.169209656	33.529355136	4595.362
Stake 78	106.169194376	33.529493547	4596.850
Stake 69	106.169033561	33.529465123	4595.798
Stake 66	106.168875779	33.529433422	4595.991
Stake 55	106.168717454	33.529401652	4596.534
Stake 48	106.168556838	33.529371512	4596.188
Stake 40	106.168394025	33.529340289	4595.150
Stake 37	106.168246248	33.529300707	4599.414

Photograph 4-2. Core Sample.

Following completion of each soil boring, the boring was backfilled using a cement/bentonite grout. Drill cuttings were placed on 6-mil plastic adjacent to each soil boring. The plastic was folded over the soil and secured to the ground to prevent drainage on or off the soil pile. The location of each soil boring and geophysical survey grid stakes were surveyed using a Global Positioning System (GPS) unit to an accuracy of plus or minus 3.2 ft. GPS coordinates collected at SWMU 159 are included in Table 4-1.

All soil augers, drill bits, rods, etc. were decontaminated between borings at the decontamination pad (Photograph 4-3) using a high-pressure hot water washer and horse trough.

The split-barrel soil samplers were decontaminated prior to each sample collection by the following procedure (Photograph 4-4): 1) Soil residue was cleaned off by scraping and brushing; 2) Sampling equipment was scrubbed in a Liquinox® detergent and potable water wash using a brush; 3) Sampling equipment was rinsed with distilled water; and 4) Sampling equipment was sprayed with Type II water for a final rinse. All wastewater from equipment cleaning was containerized in one DOT 17E, closed-top 55-gallon drum.

Photograph 4-3. High Pressure Hot Water Washer.

Photograph 4-4. Decontamination of Split Barrel Soil Sampler.

4.1 Landfill Cell - Soil Borings

The location of the landfill cell was delineated at the site using the geophysical survey, wooden survey stakes still present at the site, and differences in vegetative cover. Photograph 4-5 shows the difference in density of vegetation covering the undisturbed area vs. the disturbed area, i.e., SWMU 159.

Photograph 4-5.
Difference in Vegetation Density Indicates Disturbance In Area Center of Photograph.

The soil borings were spaced approximately 25 ft apart along the length of the delineated landfill cell. The original plan was to space all 8 soil borings south of the cell and auger at an angle to the north to reach beneath the cell. This was based on the possibility of "collapsing soil" north of the landfill as described in the geophysical survey. Upon further inspection of the site it was determined that the soil north of the cell could hold the weight of the drill rig. To increase the coverage of the landfill cell, 3 of the 8 soil borings were moved north of the landfill cell and augered at an angle to the south.

A 40° angle from vertical was the maximum incline that the CME-75 drill rig could accommodate. It was decided to not drill directly through the landfill debris for potential safety concerns. The angled drilling would limit the chances of injuring site personnel by not having to drill directly through the buried debris and/or damaging the drill rig with the concrete and metallic debris that was expected. Additionally, drilling with a smaller degree angle from vertical would have placed the sample position farther from the center at the base of the landfill cell.

Figure 4-1 is a map view of the landfill showing locations of the soil borings augered for this investigation. The map view displays the approximate outline of the landfill excavation as determined from the geophysical survey and personnel interview. As discussed in Section 3.2, the outline is exaggerated based on "scatter" from the survey instrument. The data indicated that the middle of the outlined area is the center of the landfill cell with the landfill extent approximately 7.5 ft on either side. Figure 4-1 approximates actual sampling locations beneath the landfill cell along the bearing in which each soil boring was augered. These sampling locations have been corrected for distance drilled at the 40° angle. Transect A – B in Figure 4-1 is a line indicating the cross-section shown in Figure 4-2.

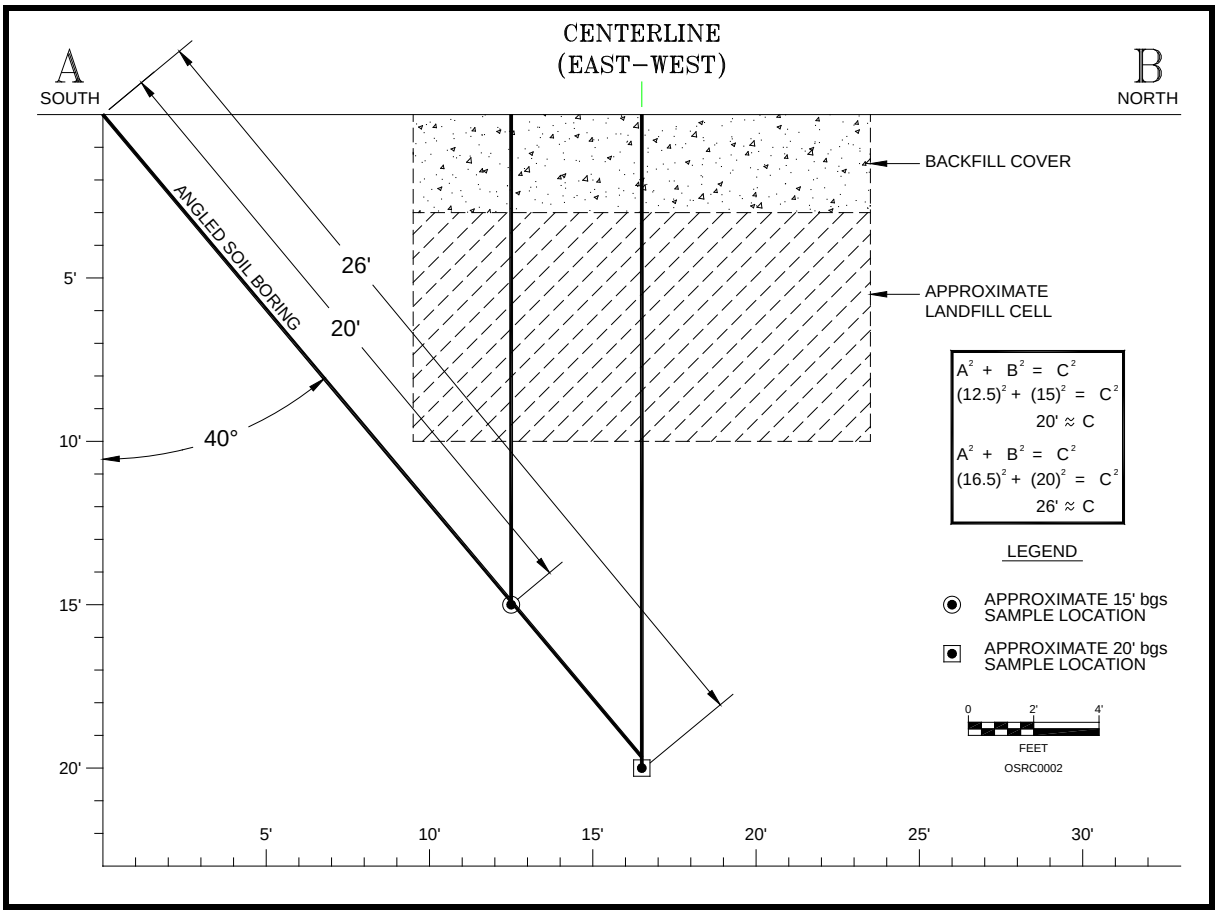

Figure 4-2. Angled Soil Boring Cross-Section.

In determining boring locations the approximate centerline of the landfill cell was delineated at the site oriented in the general east-west direction (N75W) along the 200 ft length of the cell. A distance of approximately 16.5 ft was measured perpendicular to the centerline for placement of the soil borings. Using this distance and the 40° drilling angle, the likelihood of drilling into the landfill itself was calculated to be remote. The initial soil boring starting points were located on the outer edge, or just outside of the edge, of the exaggerated landfill outline, with the exception of SB-07. A measuring error prior to drilling left SB-07 just inside the exaggerated landfill outline.

For the 5 borings located south of the landfill cell (Figure 4-1), the drill rig was positioned in a northeast bearing to auger in an approximate perpendicular path to the centerline. For the 3 borings located north of the cell, the rig was positioned in a southwest bearing. Drilling at a 40° angle from vertical for a distance of approximately 20 ft yielded an apparent vertical location of approximately 15 ft bgs beneath the landfill. Drilling at the same angle from vertical for a distance of approximately 26 ft yielded an apparent vertical location of approximately 20 ft bgs beneath the landfill (see Figure 4-2).

Table 4-1 lists all soil borings augered during this investigation including total boring depths, soil boring angle, bearing of the angled soil borings, sample depth intervals, and soil sample identification. The soil boring and sample locations were positioned to provide adequate coverage over the length of the landfill for determination of potential contamination.

Table 4-1.
Soil Borings for the Oscura Range Center Construction Landfill
RCRA Facility Investigation.

Soil Boring / Total Depth	Soil Boring Angle	Sample Depth Interval - From Angle	Sample Depth Interval - Corrected to Vertical	Sample #
Landfill Cell				
SB-01/20ft *Bearing*: N35E	40°	19-20	15	0159-SB01(15.0)
SB-02/26ft *Bearing*: S18W	40°	19-20	15	0159-SB02(15.0)
		25-26	20	0159-SB02(20.0)
SB-03/20ft *Bearing*: N32E	40°	19-20	15	0159-SB03(15.0)
SB-04/20ft *Bearing*: S20W	40°	19-20	15	0159-SB04(15.0)
SB-05/26ft *Bearing*: N11E	40°	19-20	15	0159-SB05(15.0)
		25-26	20	0159-SB05(20.0)
SB-06/20ft *Bearing*: S17W	40°	19-20	15	0159-SB06(15.0)
SB-07/20ft *Bearing*: N3E	40°	19-20	15	0159-SB07(15.0)
SB-08/26ft *Bearing*: N10E	40°	19-20	15	0159-SB08(15.0)
		25-26	20	0159-SB08(20.0)
Ramp Area				
SB-09/7ft	Vertical	6-7	7	0159-SB09(7.0)
SB-10/7ft	Vertical	6-7	7	0159-SB10(7.0)
SB-11/7ft	Vertical	6-7	7	0159-SB11(7.0)
SB-12/7ft	Vertical	6-7	7	0159-SB12(7.0)
SB-13/7ft	Vertical	6-7	7	0159-SB13(7.0)
Background				
SB-14/30ft	Vertical	6-7	7	0159-SB14(7.0)
		14-15	15	0159-SB14(15.0)
		19-20	20	0159-SB14(20.0)
SB-15/20ft	Vertical	6-7	7	0159-SB15(7.0)
		14-15	15	0159-SB15(15.0)
		19-20	20	0159-SB15(20.0)

With the exception of SB-02, no landfill debris was encountered in the borings. Coupled with the measured soil boring locations (Figure 4-1) and depth/angle augered, the absence of landfill debris verified that the assumed width of the landfill cell was no more than the approximate 15 ft as determined from the personnel interview and interpretation of the geophysical survey discussed earlier. However, a small amount of concrete was present at the 5 ft interval in ORCSB-02. This could indicate that the outside edge of the landfill debris was encountered in this boring or that near surface debris was pushed down by the auger. The concrete could also have been left in place when the landfill was backfilled.

4.2 Ramp Area - Soil Borings

The ramp area is interpreted as an area used during the process of dumping debris into the landfill. Dump trucks would use this area to back up to the landfill cell and discard their contents. The geophysical survey shows scattered metallic debris at the surface or near surface. In the northwest corner of the ramp area, the geophysical survey revealed buried metallic debris to a depth of 3 ft bgs. Additionally, a visual inspection of the area revealed scattered concrete and metal at the surface presumably left during the dumping process.

Five soil samples (Table 4-1) were collected from 5 vertical borings (Figure 4-1) augered in the ramp area located south of the landfill cell. The ORC RFI Work Plan called for 4 borings through the ramp area with collection of soil samples from the 9 ft – 10 ft bgs depth interval. Based on the deepest known depth of debris in this area (from the Sunbelt Geophysics (1998) survey), 3 ft bgs, the soil sampling depth interval for this area was decreased from 9 ft -10 ft bgs to 6 ft – 7 ft bgs. It was decided in the field to deviate from the work plan so that if contamination were present in the ramp area, the shallower sampling interval would be more likely to detect it.

4.3 Background - Soil Borings

Two soil borings (SB-14 and SB-15) were augered to the north of the landfill (Table 4-1 and Figure 4-1). Since groundwater on the site is assumed to flow to the south-southeast, the soil samples collected in these up-gradient locations served as background samples for this investigation. Soil samples were collected from each boring at the following depth intervals: 6-7 ft; 14-15 ft; and 19-20 ft. These specific intervals were sampled as a comparison to the intervals sampled for the landfill cell and the ramp area. Additionally, SB-14 was completed to a depth of 30 ft bgs to determine the lithology beneath the site, which would include the determination of a possible confining layer beneath the site. Background samples were analyzed for all potential contaminants, instead of just inorganics, to ensure that if contamination were present at the site, it did not extend to the chosen background location.

5.0 ANALYTICAL DATA REVIEW

All samples collected for the SWMU 159 investigation arrived at the laboratory in good condition and within temperature requirements (2° C to 6° C) with the exception of samples from SB-02, -04, -06, -10, and -11. The cooler for these samples arrived at the laboratory at 1.8°C which should have negligible effects on the samples. All samples were extracted and analyzed

within EPA maximum holding times for each analyte. However, the samples for herbicides were re-extracted outside of holding time due to recovery values for the surrogate 2,4-DCPAA that fell below the control limit. Analyses of the re-extracted samples yielded low surrogate recovery verifying matrix interference. Requirements for the soil sampling and analysis are included in Table 5-1.

Table 5-1.
Test Methods, Hold Times, and Sample Containers for Soil Samples.

Parameter	Reference Method	Method Type	Hold Time* * before/after extract	Container/ Preservative
Arsenic Barium Cadmium Chromium Copper Lead Magnesium Manganese Mercury Phosphorous (365.2) Selenium Silver	SW846 6010B/7470A	ICP/AES	180 days	1 – 4 oz jar
Ammonium Perchlorate	EPA 314.0	Ion Chromatography	28 days	1 – 4oz jar
Volatile Compounds	SW846 8260B	GC/MS	14 days	2 – 4 oz jars
Petroleum Hydrocarbons	EPA 8015B (mod) DRO GRO	Gas Chromatography	14 days	
Semi-Volatiles (SVOCs)	SW846 8270D	GC-MS	14/40 days	
Explosives	SW846-8330	HPLC	14/40 days	
Pesticides	SW846-8081B	Gas Chromatography	14/40 days	
Herbicides	SW846-8151A	Gas Chromatography	14/40 days	
PCBs	SW846-8082A	Gas Chromatography	14/40 days	

The analytical results are provided in Sections 5.1 and 5.2. Data tables in each section list all analytical results including non-detects. Results for each analyte are listed in columns headed by the soil boring number, depth interval where sample was collected (in parentheses), and concentration units (µg/kg or mg/kg). Analytical results in *italics* are results detected above the laboratory reporting limit. Analytical results in **bold** are results detected above the NMED SSL or EPA Region VI HHSSL. A copy of laboratory data is included as Appendix C.

5.1 Landfill Cell Analytical Results

5.1.1 Inorganics

Table 5-2 on the following page lists inorganic analytical results from the two background soil borings (SB-14 and SB-15) compared to NMED Soil Screening Levels (SSLs) or the EPA Region VI HHSSL. Background arsenic was detected at 4.4 mg/kg, above the NMED SSL (3.9 mg/kg) in the 4.5 m (15.0 ft) sample from SB-15. Arsenic approached the NMED SSL at 3.8 mg/kg in the 4.5 m (15.0 ft) sample from SB-14. All other detected analytes were below their respective SSLs.

Table 5-2.
Inorganic Analytical Results from the Background Soil Borings.

Analyte	NMED Residential SSL mg/kg	SB014 (7.0) mg/kg	SB15 (7.0) mg/kg	SB14 (15.0) mg/kg	SB15 (15.0) mg/kg	SB14 (20.0) mg/kg	SB15 (20.0) mg/kg
Arsenic	3.9	3.3	2.7	3.8	**4.4**	3.3	3
Barium	5,200	361 N	147 N	215 N	244 N	327 N	242 N
Cadmium	70	<4.1	<4.3	<4.2	<5.1	<4.4	<4.1
Chromium	210*	21.2	19.1	30	37.2	27.5	15.9
Copper	2,800	10.5	10	15.3	21.4	12.8	9.7
Lead	400	8.1	8.2	11	14.1	9.3	8.1
Magnesium	NE	7730 E	6640 E	10200 E	14800 E	10200 E	7860 E
Manganese	7,800	296	516	407	577	292	311
Selenium	380	<0.82 N	<0.86 N	0.84 N	<1 N	<0.88 N	<0.81 N
Silver	380	<0.08	<0.09	<0.08	<0.1	<0.09	<0.08
Mercury	6.5	<0.03	<0.04	<0.04	<0.04	<0.04	<0.04
Perchlorate	7.8*	<0.044	<0.044	<0.044	<0.051	<0.048	<0.043
Total Phosphorus	NE	2400	360	450	750	430	360

< Not Detected. Less than the given laboratory reporting limit.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.
Bold Result is greater than the NMED Residential Soil Screening Level.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
N Spiked sample recovery not within control limits.
E The reported value is estimated because of the presence of interference.

Based on the lithology of the site, the interval from 15.0 ft to 20.0 ft bgs is classified as dark reddish brown sandy-, silty-clay with minor dark black organic material. Therefore, the 15.0 ft and 20.0 ft samples from the background soil borings are from the same geologic interval, thus the sample results from both intervals can be combined and interpreted as the same sample interval.

Table 5-2 lists inorganic analytical results from the landfill cell soil borings. With the exception of arsenic, all detections were well below their respective screening levels. Arsenic was detected at or above the NMED SSL of 3.9 mg/kg in the 15.0 ft depth samples at 4.1 mg/kg, 3.9 mg/kg, and 3.9 mg/kg from SB-02, SB-05, and SB-08, respectively. These arsenic results are likely naturally occurring concentrations. The mean background result for arsenic at the 15.0 ft interval is 4.1 mg/kg (Table 5-3 on following page).

Table 5-3.
Inorganic Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL mg/kg	SB01 (15.0) mg/kg	SB02 (15.0) mg/kg	SB02 (20.0) mg/kg	SB03 (15.0) mg/kg	SB04 (15.0) mg/kg	SB05 (15.0) mg/kg
Arsenic	3.9	3.4	**4.1**	3.3	3.6	3.5	**3.9**
Barium	5,200	153	304 N	255 N	169	296 N	219
Cadmium	70	<4.4	<4.3	<4.3	<4.5	<4.4	<4.2
Chromium	210*	19.7 N	32.8	17.9	25.7 N	23.3	26.7 N
Copper	2,800	12.7	17.5	11.1	14.5	11.4	13.3
Lead	400	10.2	12.3	9.2	11	9.9	10.7
Magnesium	NE	10200	12900 E	9900 E	11000	8440 E	9610
Manganese	7,800	353	391	283	389	374	394
Selenium	380	<0.87	<0.85 N	<0.85 N	<0.9	<0.89 N	<0.83
Silver	380	<0.09	<0.09	<0.08	<0.09	<0.09	<0.08
Mercury	6.5	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Perchlorate	7.8*	<0.044	<0.045	<0.044	<0.045	<0.044	<0.044
Total Phosphorus	NE	1600	1700	1700	1800	1600	1600
Analyte	**NMED Residential SSL mg/kg**	**SB05 (20.0) mg/kg**	**SB06 (15.0) mg/kg**	**SB07 (15.0) mg/kg**	**SB08 (15.0) mg/kg**	**SB08 (20.0) mg/kg**	
Arsenic	3.9	3.4	3.1	3.4	**3.9**	3.5	
Barium	5,200	237	129 N	190	148	336	
Cadmium	70	<4.3	<4.7	<4.3	<4.3	<4	
Chromium	210*	17.4 N	19.9	23.8 N	20.8 N	13.7 N	
Copper	2,800	9.8	11.3	13.1	13.1	7.6	
Lead	400	9.3	8.9	9.7	10	7.8	
Magnesium	NE	7790	9370 E	10000	10000	6500	
Manganese	7,800	327	290	296	320	255	
Selenium	380	<0.85	<0.94 N	<0.87	<0.86	<0.81	
Silver	380	<0.09	<0.09	<0.09	<0.09	<0.08	
Mercury	6.5	<0.04	<0.04	<0.04	<0.04	<0.04	
Perchlorate	7.8*	<0.043	<0.047	<0.046	<0.046	<0.040	
Total Phosphorus	NE	1100	1800	1600	1600	1800	

< Not Detected. Less than the given laboratory reporting limit.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.
Bold Result is greater than the NMED Residential Soil Screening Level.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
N Spiked sample recovery not within control limits.
E The reported value is estimated because of the presence of interference.

Simple Statistical Comparison

Table 5-4 lists a simple statistical comparison of the background samples to the samples collected from beneath the landfill cell. The mean of the background samples for the 15.0 ft and 20.0 ft intervals is compared to the mean of the landfill cell samples plus or minus one standard deviation ($\pm \sigma$). The coefficient of variability (CV) was also calculated and is shown below the $\pm \sigma$ range. All of the CV values are less than 0.5 indicating the distributions are approaching normality. If the mean of the background falls within the mean $\pm \sigma$ of the landfill cell samples, then we can assume the landfill cell sample results are indistinguishable from background.

The last column in Table 5-4 lists the combined results from the 15.0 ft and 20.0 ft samples from the landfill cell. As discussed in Section 5.1.1, this interval is characterized as the same geologic unit; therefore the sample results from both intervals can be combined and interpreted as the same sample interval. For most of the inorganic analytes, the background mean is either higher or falls within ± σ of the landfill cell mean. The background value for total phosphorus falls outside the landfill cell range. This could indicate natural variation in total phosphorus across the site.

Table 5-4.
Statistical Comparison of Background Concentrations to the Landfill Cell Concentrations.

Analyte	15.0 ft Background Mean	15.0 ft Landfill Cell Mean ± σ (Range) CV	20.0 ft Background Mean	20.0 ft Landfill Cell Mean ± σ (Range) CV	15.0 ft-20.0 ft Background Mean ± σ	15.0 ft-20.0 ft Landfill Cell Mean ± σ (Range) CV
Arsenic	4.1	3.6 ± 0.33 (3.27 – 3.93) 0.09	3.15	3.4 ± 0.1 (3.3 – 3.5) 0.03	3.63 ± 0.61 0.17	3.55 ± 0.29 (3.26 – 3.84) 0.08
Barium	229.5	201 ± 66.97 (134.03 – 267.97) 0.33	284.5	276 ± 52.74 (223.26 – 328.74) 0.19	257 ± 48.50 0.19	221.45 ± 70.17 (151.28 – 291.62) 0.32
Chromium	33.6	24.08 ± 4.37 (19.71 – 28.45) 0.18	21.7	16.3 ± 2.29 (14.01 – 18.59) 0.14	27.65 ± 8.85 0.32	21.97 ± 5.25 (16.72 – 27.22) 0.24
Copper	18.35	13.36 ± 1.97 (11.39 – 15.33) 0.15	11.25	9.5 ± 1.77 (7.73 – 11.27) 0.19	14.8 ± 4.96 0.34	12.31 ± 2.57 (9.74 – 14.88) 0.21
Lead	12.55	10.34 ± 1.02 (9.32 – 11.36) 0.09	8.7	8.76 ± 0.84 (7.92 – 9.6) 0.09	10.65 ± 2.57 0.24	9.91 ± 1.18 (8.73 – 11.09) 0.12
Magnesium	12500	10190 ± 1317.13 (8872.87 – 11507.13) 0.13	9030	8063 ± 1716.40 (6346.6 – 9779.4) 0.21	10765 ± 2707.4 0.27	9610 ± 1670.44 (7939.56 – 11280.44) 0.17
Manganese	492	350.87 ± 43.31 (307.56 – 394.18) 0.12	301.5	288.33 ± 36.29 (252.04 – 324.62) 0.13	396.75 ± 130.28 0.33	333.82 ± 49.30 (284.52 – 383.12) 0.15
Total Phosphorus	600	1662 ± 91.61 (1570.39 – 1753.61) 0.06	395	1533 ± 378.59 (1154.41 – 1911.59) 0.25	497.5 ± 172.7 0.35	1627.27 ± 195.40 (1431.87 – 1822.67) 0.12

T Distribution

t-tests are useful for establishing the likelihood that a given sample could be a member of a population with specified characteristics, or for testing hypotheses about the equivalency of two sample distributions. The Gossett Student *t*-test has good application when comparing background sites with potentially contaminated sites (Breckenridge and Crockett, 1995).

For the purpose of this investigation, the statistical equivalency of the combined 15.0 ft and 20.0 ft background samples and landfill cell samples needs to be determined.

Thus, the hypothesis:

$$X_1 = X_2,$$

must be determined, where

- X_1 is the mean of the landfill cell samples, and
- X_2 is the mean of the background samples.

With a 10% level of significance, the calculated *t* must lie outside of the range, -1.77 to +1.77 (Table of Critical Values of *t*) (McClave and Dietrich, 1991), to reject the hypothesis. The *t* value range was taken from the Table of Critical Values of *t* using the number of degrees of freedom (13) and desired level of significance (10% - two-tailed test with 5% on either end). If the hypothesis is rejected, then there is statistical evidence that the background samples and the landfill cell samples come from populations having differing means. If the calculated *t* lies within the range, then we must conclude that there is no statistical evidence to suggest that the background samples and the landfill cell samples come from populations with differing means.

The *t* statistic can be calculated using the formula:

$$t = [X_1 - X_2]/[\sigma_p\sqrt{(1/n_1 + 1/n_2)}]$$

where,

- σ_p is the Pooled Standard Deviation,
- n_1 is the landfill cell sample size (11), and
- n_2 is the background sample size (4).

The *t*-test was applied to the background and landfill cell samples and results are included in Table 5-5. Calculations are included as Appendix D. With the exception of total phosphorus, all of the calculated values of *t* fall within the range of the Critical Value of *t*. This indicates that the hypothesis ($X_1 = X_2$) cannot be rejected, therefore no statistical evidence exists that would indicate the background sample population and the landfill cell population are different. This would indicate that the background results for these analytes are indistinguishable from the landfill cell results.

The calculated *t* value for total phosphorus fell outside of the range, therefore the hypothesis was rejected. This indicates that there is statistical evidence that the background values and landfill cell values for total phosphorus came from different populations. This could indicate natural variations in total phosphorus concentrations across the ORC site. A SSL has not been established by NMED or EPA Region VI for total phosphorus.

Table 5-5. T-Distribution.

Analyte	15.0-20.0 Background Mean σ	15.0-20.0 Landfill Cell Mean σ	Critical Value of t (-1.77 to +1.77) $t = [X1 - X2]/[\sigma p\sqrt{(1/n1 + 1/n2)}]$
Arsenic	3.63 0.61	3.55 0.29	t = -0.35; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for As and the landfill cell samples came from different populations.
Barium	257 48.50	221.45 70.17	t = -0.93; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Ba and the landfill cell samples came from different populations.
Chromium	27.65 8.85	21.97 5.25	t = -1.56; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Cr and the landfill cell samples came from different populations.
Copper	14.8 4.96	12.31 2.57	t = -1.31; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Cu and the landfill cell samples came from different populations.
Lead	10.65 2.57	9.91 1.18	t = -0.79; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Pb and the landfill cell samples came from different populations.
Magnesium	10765 2707.4	9610 1670.44	t = -1.01; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Mg and the landfill cell samples came from different populations.
Manganese	396.75 130.28	333.82 49.30	t = -1.42; cannot reject the hypothesis (X1 = X2), therefore it is concluded that there is no evidence that the background samples for Mn and the landfill cell samples came from different populations.
Total Phosphorus	497.5 172.7	1627.27 195.40	t = 10.23; hypothesis (X1 = X2) rejected, there is statistical evidence that the background samples for P and the landfill cell samples came from different populations.

5.1.2 VOCs

Table 5-6 lists the TPH and VOC results for the samples collected from beneath the landfill cell. TPH was not detected. Acetone, methylene chloride, and trichlorofluoromethane were detected in some or all of the samples. Acetone ranged from 8 μg/kg to 58 μg/kg. The NMED SSL for acetone is 1.6E+6 μg/kg, five orders of magnitude higher than the detections. Most of the acetone detections were estimated due to detection below the laboratory reporting limit. Methylene chloride ranged from 11 μg/kg to 40 μg/kg, two orders of magnitude below the NMED SSL of 8.9E+3 μg/kg. Methylene chloride was also detected in the method blanks for all of these samples indicating possible laboratory cross-contamination. Acetone (solvent used in cleaning laboratory glassware) and methylene chloride (used in SVOC extractions) are common laboratory cross-contaminants at low levels. Additionally, these two VOC analytes were detected in samples collected from the background borings. Tabulated results for the background VOCs are included in Attachment 1. Trichlorofluoromethane was detected just above its laboratory reporting limit and ranged from 2 μg/kg to 4 μg/kg, five orders of magnitude below the EPA Region VI PRG of 3.9E+5 μg/kg. A NMED SSL has not been established for Trichlorofluoromethane. No other VOCs were detected in the landfill cell samples.

Table 5-6. VOC Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB01 (15.0) µg/kg	SB02 (15.0) µg/kg	SB02 (20.0) µg/kg	SB03 (15.0) µg/kg	SB04 (15.0) µg/kg	SB05 (15.0) µg/kg	SB05 (20.0) µg/kg	SB06 (15.0) µg/kg	SB07 (15.0) µg/kg	SB08 (15.0) µg/kg	SB08 (20.0) µg/kg
1,1,1-Trichloroethane	5.1E+5	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,1,2,2-Tetrachloroethane	3.6E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,1,2-Trichloroethane	7.9E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,1-Dichloroethane	5.6E+5	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,1-Dichloroethene	8.1E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,2-Dichloroethane	3.3E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
1,2-Dichloropropane	3.5E+2*	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
2-Butanone	3.7E+6	<11	<62	<50	<12	<54	<11	<11	<53	<12	<110	<10
2-Hexanone	NE	<11	<62	<50	<12	<54	<11	<11	<53	<12	<110	<10
4-Methyl-2-pentanone	NE	<11	<62	<50	<12	<54	<11	<11	<53	<12	<110	<10
Acetone	1.6E+6*	9 J	*31 J*	*22 J*	*14*	*25 J*	8 J	*11*	*23 J*	*8 J*	*58 J*	*8 J*
Benzene	6.4E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Bromodichloromethane	9.6E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Bromoform	6.2E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Bromomethane	3.7E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Carbon disulfide	3.6E+5*	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Carbon tetrachloride	1.6E+3	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Chlorobenzene	1.4E+5	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Chloroethane	3.0E+3**	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Chloroform	3.8E+2	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Chloromethane	1.2E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
cis-1,2-Dichloroethene	4.1E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
cis-1,3-Dichloropropene	NE	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Dibromochloromethane	1.0E+3*	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Dichlorodifluoromethane	9.0E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Ethylbenzene	6.8E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
m,p-Xylene	6.3E+4^	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Methylene chloride	8.9E+3*	21 B	*14 BJ*	*11 BJ*	16 B	*12 BJ*	*19 B*	*19 B*	*13 BJ*	*15 B*	*40 B*	*16 B*
o-Xylene	6.3E+4^	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Styrene	1.7E+6*	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Tetrachloroethene	4.9E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Toluene	1.8E+5	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
trans-1,2-Dichloroethene	6.0E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
trans-1,3-Dichloropropene	NE	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Trichloroethene	1.6E+4	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Trichlorofluoromethane	3.9E+5*	*4*	<19	<15	2 J	<16	*4*	*4*	<16	3 J	<33	*3*
Vinyl chloride	2.1E+2	<3	<19	<15	<4	<16	<3	<3	<16	<4	<33	<3
Total Petroleum Hydrocarbons	**NMED SSL mg/kg**	**SB01 (15.0) mg/kg**	**SB02 (15.0) mg/kg**	**SB02 (20.0) mg/kg**	**SB03 (15.0) mg/kg**	**SB04 (15.0) mg/kg**	**SB05 (15.0) mg/kg**	**SB05 (20.0) mg/kg**	**SB06 (15.0) mg/kg**	**SB07 (15.0) mg/kg**	**SB08 (15.0) mg/kg**	**SB08 (20.0) mg/kg**
Gasoline Range Organics	NE	<5.6	<5.6	<5.5	<5.7	<5.4	<5.5	<5.3	<5.9	<5.8	<5.6	<5.3
Diesel Range Organics	NE	<28	<28	<27	<28	<27	<27	<27	<29	<29	<28	<27
Motor Oil	NE	<110	<110	<110	<110	<110	<110	<110	<120	<120	<110	<110

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
** Not Established by New Mexico or EPA Region VI. Level given is from the EPA Region IX Preliminary Remediation Goals.
^ Level is based on Total Xylenes (m,p, and o).
B Analyte was also detected in the method blank for that sample.
J Analyte was detected below the reporting limit. Reported concentration is an estimate.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.

5.1.3 SVOCs

Table 5-7 lists analytical results for SVOCs from samples collected beneath the landfill cell. The SVOCs, bis(2-Ethylhexyl)phthalate, Di-n-butylphthalate, Diethylphthalate were detected in some of the samples from the landfill cell soil borings. The 15.0 ft sample from ORCSB-01 was reported by the laboratory to contain 90 µg/kg bis(2-Ethylhexyl)phthalate. This detection was reported as estimated due to its detection below the laboratory reporting limit. The NMED SSL for bis(2-Ethylhexyl)phthalate is 6.0E+3 µg/kg, which is two orders of magnitude higher than the detection. Di-n-butylphthalate was detected in the 20.0 ft sample from SB-08 at 250 µg/kg. This detection was estimated due to its detection below the laboratory reporting limit. A NMED SSL or EPA Region VI HHSSL has not been established for Di-n-butylphthalate. Diethylphthalate was detected in samples from borings ORCSB-01, -03, -05, -07, and -08. Concentrations ranged from 130 µg/kg to 200 µg/kg. The NMED SSL for Diethylphthalate is 4.9E+7 µg/kg, which is five orders of magnitude higher than the detections. All of the Diethylphthalate detections were estimated due to detection below the laboratory reporting limit. All of the detected SVOCs are phthalates (emitted by plastics) and can be common laboratory cross-contaminants picked up during the laboratory extraction process. No other SVOCs were detected in the landfill cell soil borings.

Table 5-7.
SVOC Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB01 (15.0) µg/kg	SB02 (15.0) µg/kg	SB02 (20.0) µg/kg	SB03 (15.0) µg/kg	SB04 (15.0) µg/kg	SB05 (15.0) µg/kg	SB05 (20.0) µg/kg	SB06 (15.0) µg/kg	SB07 (15.0) µg/kg	SB08 (15.0) µg/kg	SB08 (20.0) µg/kg
1,2,4-Trichlorobenzene	5.2E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
1,2-Dichlorobenzene	337E+5*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
1,2-Diphenylhydrazine	6.1E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
1,3-Dichlorobenzene	1.2E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
1,4-Dichlorobenzene	3.2E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,2'-oxybis (1-Chloropropane)	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,4,5-Trichlorophenol	6.1E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,4,6-Trichlorophenol	4.4E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,4-Dichlorophenol	1.8E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,4-Dimethylphenol	1.2E+6*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,4-Dinitrophenol	1.2E+5	<740	<750	<730	<760	<720	<730	<710	<780	<780	<740	<710
2,4-Dinitrotoluene	1.2E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2,6-Dinitrotoluene	6.1E+4*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Chloronaphthalene	3.9E+6*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Chlorophenol	6.4E+4*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Methylnaphthalene	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Methylphenol	3.1E+6*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Nitroaniline	3.7E+3*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
2-Nitrophenol	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
3,3'-Dichlorobenzidine	1.1E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
3-Nitroaniline	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4,6-Dinitro-2-methylphenol	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Bromophenyl phenylether	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Chloro-3-methylphenol	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350

Continued on next page.

Analyte	NMED Residential SSL µg/kg	SB01 (15.0) µg/kg	SB02 (15.0) µg/kg	SB02 (20.0) µg/kg	SB03 (15.0) µg/kg	SB04 (15.0) µg/kg	SB05 (15.0) µg/kg	SB05 (20.0) µg/kg	SB06 (15.0) µg/kg	SB07 (15.0) µg/kg	SB08 (15.0) µg/kg	SB08 (20.0) µg/kg
4-Chloroaniline	2.4E+5*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Chlorophenyl phenylether	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Methylphenol	3.1E+5*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Nitroaniline	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
4-Nitrophenol	4.9E+5*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Acenaphthene	2,800,000	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Acenaphthylene	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Anthracene	1.6E+7	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzidine	21	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzo[a]anthracene	6.2E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzo[a]pyrene	6.2E+2	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzo[b]fluoranthene	6.2E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzo[g,h,I]perylene	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzo[k]fluoranthene	6.2E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Benzoic acid	1.0E+8*	<740	<750	<730	<760	<720	<730	<710	<780	<780	<740	<710
Benzyl alcohol	1.8E+7*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
bis (2-Chloroethoxy)methane	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
bis(2-Chloroethyl)ether	4.4E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
bis(2-Ethylhexyl)phthalate	6.0E+3	90 J	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Butylbenzylphthalate	2.4E+5*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Carbazole	2.4E+4*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Chrysene	6.1E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Di-n-butylphthalate	NE	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	250 J
Di-n-octylphthalate	1.2E+6*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Dibenz[a,h]anthracene	6.2E+2	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Dibenzofuran	2.9E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Diethylphthalate	4.9E+7	150 J	<370	<370	150 J	<360	150 J	200 J	<390	160 J	130 J	140 J
Dimethylphthalate	1.0E+8	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Fluoranthene	2.3E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Fluorene	2.1E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Hexachlorobenzene	3.0E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Hexachlorobutadiene	1.2E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Hexachlorocyclopentadiene	4.2E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Hexachloroethane	6.1E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Indeno[1,2,3-cd]pyrene	6.2E+3	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Isophorone	5.1E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
N-Nitroso-di-n-propylamine	70*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
N-Nitrosodiphenylamine	9.9E+5	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Naphthalene	5.3E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Nitrobenzene	1.7E+4	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Pentachlorophenol	3.0E+3*	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Phenanthrene	1.8E+6	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350
Phenol	3.7E+7	<370	<370	<370	<380	<360	<370	<350	<390	<390	<370	<350

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
** Not Established by New Mexico or EPA Region VI. Level given is from the EPA Region IX Preliminary Remediation Goals.
^ Level is based on Total Xylenes (m,p, and o).
B Analyte was also detected in the method blank for that sample.
J Analyte was detected below the reporting limit. Reported concentration is an estimate.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.

5.1.4 Pesticides and PCBs

Table 5-8 lists the analytical results for pesticides and PCBs from samples collected beneath the landfill cell. No PCBs or Pesticides were detected.

Table 5-8.
Pesticide and PCB Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB01 (15.0) µg/kg	SB02 (15.0) µg/kg	SB02 (20.0) µg/kg	SB03 (15.0) µg/kg	SB04 (15.0) µg/kg	SB05 (15.0) µg/kg	SB05 (20.0) µg/kg	SB06 (15.0) µg/kg	SB07 (15.0) µg/kg	SB08 (15.0) µg/kg	SB08 (20.0) µg/kg
4,4'-DDD	2.4E+4	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
4,4'-DDE	1.7E+4	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
4,4'-DDT	1.7E+4	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Aldrin	2.9E+2	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
alpha-BHC	9.0E+2	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
alpha-Chlordane	NE	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Aroclor-1016	3.9E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
Aroclor-1221	2.2E+3	<73	<74	<73	<75	<72	<73	<70	<78	<77	<73	<70
Aroclor-1232	2.2E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
Aroclor-1242	2.2E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
Aroclor-1248	1.1E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
Aroclor-1254	1.1E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
Aroclor-1260	1.1E+3	<37	<37	<36	<38	<36	<36	<35	<39	<38	<37	<35
beta-BHC	3.2E+3	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
delta-BHC	NE	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Dieldrin	3.0E+2	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Endosulfan I	NE	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Endosulfan II	NE	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Endosulfan sulfate	NE	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Endrin	1.8E+4	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Endrin aldehyde	NE	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
Endrin ketone	NE	<3.7	<3.7	<3.6	<3.8	<3.6	<3.6	<3.5	<3.9	<3.8	<3.7	<3.5
gamma-BHC (Lindane)	4.4E+3	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
gamma-Chlordane	NE	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Heptachlor	1.1E+3	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Heptachlor epoxide	53*	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<1.8	<2	<2	<1.9	<1.8
Methoxychlor	3.1E+5*	<19	<19	<19	<19	<18	<19	<18	<20	<20	<19	<18
Toxaphene	4.4E+3	<190	<190	<190	<190	<180	<190	<180	<200	<200	<190	<180

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

5.1.5 Herbicides

Table 5-9 lists herbicide analytical results from samples collected beneath the landfill cell. No herbicides were detected.

Table 5-9.
Herbicide Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB01 (15.0) µg/kg	SB02 (15.0) µg/kg	SB02 (20.0) µg/kg	SB03 (15.0) µg/kg	SB04 (15.0) µg/kg	SB05 (15.0) µg/kg	SB05 (20.0) µg/kg	SB06 (15.0) µg/kg	SB07 (15.0) µg/kg	SB08 (15.0) µg/kg	SB08 (20.0) µg/kg
2,4,5-T	6.1E+5*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
2,4,5-TP	4.9E+5*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
2,4-D	6.9E+5*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
2,4-DB	4.9E+5*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
Dicamba	1.8E+6*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
Dichlorprop	NE	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8
Dinoseb	6.1E+4*	<3	<3	<2.9	<3	<2.9	<2.9	<2.8	<3.1	<3.1	<3	<2.8

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

5.1.6 Explosives

Table 5-10 lists explosive analytical results from samples collected beneath the landfill cell. No explosives were detected.

Table 5-10.
Explosive Analytical Results from the Landfill Cell Soil Borings.

Analyte	NMED Residential SSL mg/kg	SB01 (15.0) mg/kg	SB02 (15.0) mg/kg	SB02 (20.0) mg/kg	SB03 (15.0) mg/kg	SB04 (15.0) mg/kg	SB05 (15.0) mg/kg	SB05 (20.0) mg/kg	SB06 (15.0) mg/kg	SB07 (15.0) mg/kg	SB08 (15.0) mg/kg	SB08 (20.0) mg/kg
1,3,5-Trinitrobenzene	1.8E+3*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dinitrobenzene	6.1*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trinitrotoluene	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrotoluene	1.2E+2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	61*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Amino-4,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Amino-2,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HMX	3.1E+3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RDX	44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetryl	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

5.2 Ramp Area

5.2.1 Inorganics

Table 5-11 lists analytical results from the samples collected within the ramp area south of the landfill cell. No inorganic constituents were detected above the NMED SSLs or EPA Region VI HHSSLs.

Table 5-11.
Inorganic Analytical Results from the Ramp Area Soil Borings.

Analyte	NMED Residential SSL	SB09 (7.0)	SB10 (7.0)	SB11 (7.0)	SB12 (7.0)	SB13 (7.0)
Arsenic	3.9	3.2	3.3	2.6	2.5	3
Barium	5,200	317 N	154 N	137 N	177 N	221 N
Cadmium	70	<4.6	<4.8	<4.6	<4.1	<4.4
Chromium	210*	25.9	26.2	22.2	18.9	23.9
Copper	2,800	12.4	11.1	10.6	8.5	12.3
Lead	400	9.6	9.5	8.1	7.3	9.6
Magnesium	NE	8310 E	9260 E	7200 E	6170 E	8430 E
Manganese	7,800	335	350	315	248	394
Selenium	380	<0.91 N	<0.95 N	<0.92 N	<0.82 N	<0.87 N
Silver	380	<0.09	<0.1	<0.09	<0.08	<0.09
Mercury	6.5	<0.04	<0.04	<0.04	<0.04	<0.03
Perchlorate	7.8*	<0.045	<0.044	<0.045	<0.045	<0.044
Total Phosphorus	NE	1700	1500	1600	340	990

< Not Detected. Less than the given laboratory reporting limit.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
N Spiked sample recovery not within control limits.
E The reported value is estimated because of the presence of interference.

<u>Simple Statistical Comparison</u>

Table 5-12 lists a simple statistical comparison of the background samples to the samples collected from the ramp area. The mean of the background samples for the 7.0 ft interval is compared to the mean of the site specific samples ± σ. For all of the inorganic analytes detected, with the exception of chromium and manganese, the background value falls within ± σ of the ramp area mean. The background mean for manganese was higher than the mean ± σ of the ramp area mean. The mean background concentration of manganese falls within ± 2σ of the ramp area mean. The mean background concentration of chromium is slightly lower than ± σ of the ramp area mean, however, the mean background concentration is within ± 2σ.

The average background concentration for phosphorus was calculated from two significantly different concentrations (2400 mg/kg in SB-14 and 360 mg/kg in SB-15). Additionally, the concentrations from the ramp area ranged from 340 mg/kg to 1700 mg/kg. The differences in concentrations among the background, landfill cell, and ramp area are possibly the result of natural variations across the site.

Table 5-12.
Statistical Comparison of Background Concentrations to the Ramp Area Concentrations.

Analyte	7.0 ft Background Mean	7.0 ft Ramp Area Mean ± σ (Range) CV
Arsenic	3.0	2.92 ± 0.36 (2.56 – 3.28) 0.12
Barium	254	201.2 ± 72.0 (129.2 – 273.2) 0.36
Chromium	20.15	23.42 ± 3.0 (20.42 – 26.42) 0.13
Copper	10.25	10.98 ± 1.59 (9.39 – 12.57) 0.14
Lead	8.15	8.82 ± 1.06 (7.76 – 9.21) 0.12
Magnesium	7185	7874 ± 1201.89 (6672.11 – 9075.89) 0.15
Manganese	406	328.4 ± 53.52 (274.88 – 381.92) 0.16
Total Phosphorus	1380	1226 ± 506.03 (719.97 – 1732.03) 0.41

5.2.2 VOCs

Table 5-13 on the following page lists the TPH and VOC results for the samples collected from the ramp area. TPH was not detected. Acetone and methylene chloride were detected in some or all of the samples. Acetone was detected at 32 µg/kg and 31 µg/kg in the samples from SB-09 and SB-10, respectively. The NMED SSL for acetone is 1.6E+6 µg/kg, five orders of magnitude higher than the detections. Both of the acetone detections were estimated due to detection below the laboratory reporting limit. Methylene chloride ranged from 7 µg/kg to 18 µg/kg, two orders of magnitude below the NMED SSL of 8.9E+3 µg/kg. Methylene chloride was also detected in the method blanks for all of these samples indicating possible laboratory cross-contamination. Acetone (used in cleaning laboratory glassware) and methylene chloride (used in SVOC extractions) are common laboratory cross-contaminants at low levels. Additionally, these two VOC analytes were detected in samples collected from the background borings. Tabulated results for the background VOCs are included in Attachment 1. No other VOCs were detected.

Table 5-13.
VOC Analytical Results from the Ramp Area Soil Borings.

Analyte	NMED SSL µg/kg	SB09 (7.0) µg/kg	SB10 (7.0) µg/kg	SB11 (7.0) µg/kg	SB12 (7.0) µg/kg	SB13 (7.0) µg/kg
1,1,1-Trichloroethane	5.1E+5	<17	<17	<17	<21	<3
1,1,2,2-Tetrachloroethane	3.6E+3	<17	<17	<17	<21	<3
1,1,2-Trichloroethane	7.9E+3	<17	<17	<17	<21	<3
1,1-Dichloroethane	5.6E+5	<17	<17	<17	<21	<3
1,1-Dichloroethene	8.1E+3	<17	<17	<17	<21	<3
1,2-Dichloroethane	3.3E+3	<17	<17	<17	<21	<3
1,2-Dichloropropane	3.5E+2*	<17	<17	<17	<21	<3
2-Butanone	3.7E+6	<57	<56	<57	<69	<11
2-Hexanone	NE	<57	<56	<57	<69	<11
4-Methyl-2-pentanone	NE	<57	<56	<57	<69	<11
Acetone	1.6E+6*	32 J	31 J	<57	<69	<11
Benzene	6.4E+3	<17	<17	<17	<21	<3
Bromodichloromethane	9.6E+3	<17	<17	<17	<21	<3
Bromoform	6.2E+4	<17	<17	<17	<21	<3
Bromomethane	3.7E+3	<17	<17	<17	<21	<3
Carbon disulfide	3.6E+5*	<17	<17	<17	<21	<3
Carbon tetrachloride	1.6E+3	<17	<17	<17	<21	<3
Chlorobenzene	1.4E+5	<17	<17	<17	<21	<3
Chloroethane	3.0E+3**	<17	<17	<17	<21	<3
Chloroform	3.8E+2	<17	<17	<17	<21	<3
Chloromethane	1.2E+4	<17	<17	<17	<21	<3
cis-1,2-Dichloroethene	4.1E+4	<17	<17	<17	<21	<3
cis-1,3-Dichloropropene	NE	<17	<17	<17	<21	<3
Dibromochloromethane	1.0E+3*	<17	<17	<17	<21	<3
Dichlorodifluoromethane	9.0E+4	<17	<17	<17	<21	<3
Ethylbenzene	6.8E+4	<17	<17	<17	<21	<3
m,p-Xylene	6.3E+4^	<17	<17	<17	<21	<3
Methylene chloride	8.9E+3*	15 BJ	12 BJ	18 B	18 BJ	7 B
o-Xylene	6.3E+4^	<17	<17	<17	<21	<3
Styrene	1.7E+6*	<17	<17	<17	<21	<3
Tetrachloroethene	4.9E+4	<17	<17	<17	<21	<3
Toluene	1.8E+5	<17	<17	<17	<21	<3
trans-1,2-Dichloroethene	6.0E+4	<17	<17	<17	<21	<3
trans-1,3-Dichloropropene	NE	<17	<17	<17	<21	<3
Trichloroethene	1.6E+4	<17	<17	<17	<21	<3
Trichlorofluoromethane	3.9E+5*	<17	<17	<17	<21	<3
Vinyl chloride	2.1E+2	<17	<17	<17	<21	<3
Total Petroleum Hydrocarbons	**NMED SSL mg/kg**	**SB09 (7.0) mg/kg**	**SB10 (7.0) mg/kg**	**SB11 (7.0) mg/kg**	**SB12 (7.0) mg/kg**	**SB13 (7.0) mg/kg**
Gasoline Range Organics	NE	<5.7	<5.6	<5.7	<5.6	<5.6
Diesel Range Organics	NE	<29	<28	<28	<28	<28
Motor Oil	NE	<110	<110	<110	<110	<110

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
** Not Established by New Mexico or EPA Region VI. Level given is from the EPA Region IX Preliminary Remediation Goals.
^ Level is based on Total Xylenes (m,p, and o).
B Analyte was also detected in the method blank for that sample.
J Analyte was detected below the reporting limit. Reported concentration is an estimate.
NE A screening level has not been established.

5.2.3 SVOCs

Table 5-14 lists the analytical results from samples collected from soil borings within the ramp area of SWMU 159. Di-n-butylphthalate was detected in the samples from SB-12 and SB-13 at 120 µg/kg and 270 µg/kg, respectively. Both of these detection were estimated due to detection below the laboratory reporting limit. As discussed in 5.1.3, Di-n-butylphthalate can be a common laboratory cross-contaminant. A NMED SSL or EPA Region VI HHSSL has not been established for Di-n-butylphthalate. No other SVOCs were detected in the samples from the ramp area.

Table 5-14.
SVOC Analytical Results from the Ramp Area Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB09 (7.0) µg/kg	SB10 (7.0) µg/kg	SB11 (7.0) µg/kg	SB12 (7.0) µg/kg	SB13 (7.0) µg/kg
1,2,4-Trichlorobenzene	5.2E+6	<380	<370	<380	<370	<370
1,2-Dichlorobenzene	337E+5*	<380	<370	<380	<370	<370
1,2-Diphenylhydrazine	6.1E+3	<380	<370	<380	<370	<370
1,3-Dichlorobenzene	1.2E+4	<380	<370	<380	<370	<370
1,4-Dichlorobenzene	3.2E+4	<380	<370	<380	<370	<370
2,2'-oxybis(1-Chloropropane)	NE	<380	<370	<380	<370	<370
2,4,5-Trichlorophenol	6.1E+6	<380	<370	<380	<370	<370
2,4,6-Trichlorophenol	4.4E+5	<380	<370	<380	<370	<370
2,4-Dichlorophenol	1.8E+5	<380	<370	<380	<370	<370
2,4-Dimethylphenol	1.2E+6*	<380	<370	<380	<370	<370
2,4-Dinitrophenol	1.2E+5	<770	<750	<760	<740	<740
2,4-Dinitrotoluene	1.2E+5	<380	<370	<380	<370	<370
2,6-Dinitrotoluene	6.1E+4*	<380	<370	<380	<370	<370
2-Chloronaphthalene	3.9E+6*	<380	<370	<380	<370	<370
2-Chlorophenol	6.4E+4*	<380	<370	<380	<370	<370
2-Methylnaphthalene	NE	<380	<370	<380	<370	<370
2-Methylphenol	3.1E+6*	<380	<370	<380	<370	<370
2-Nitroaniline	3.7E+3*	<380	<370	<380	<370	<370
2-Nitrophenol	NE	<380	<370	<380	<370	<370
3,3'-Dichlorobenzidine	1.1E+4	<380	<370	<380	<370	<370
3-Nitroaniline	NE	<380	<370	<380	<370	<370
4,6-Dinitro-2-methylphenol	NE	<380	<370	<380	<370	<370
4-Bromophenyl-phenylether	NE	<380	<370	<380	<370	<370
4-Chloro-3-methylphenol	NE	<380	<370	<380	<370	<370
4-Chloroaniline	2.4E+5*	<380	<370	<380	<370	<370
4-Chlorophenyl-phenylether	NE	<380	<370	<380	<370	<370
4-Methylphenol	3.1E+5*	<380	<370	<380	<370	<370
4-Nitroaniline	NE	<380	<370	<380	<370	<370
4-Nitrophenol	4.9E+5*	<380	<370	<380	<370	<370
Acenaphthene	2,800,000	<380	<370	<380	<370	<370
Acenaphthylene	NE	<380	<370	<380	<370	<370
Anthracene	1.6E+7	<380	<370	<380	<370	<370
Benzidine	21	<380	<370	<380	<370	<370
Benzo[a]anthracene	6.2E+3	<380	<370	<380	<370	<370
Continued on next page.						
Benzo[a]pyrene	6.2E+2	<380	<370	<380	<370	<370

Analyte	NMED Residential SSL µg/kg	SB09 (7.0) µg/kg	SB10 (7.0) µg/kg	SB11 (7.0) µg/kg	SB12 (7.0) µg/kg	SB13 (7.0) µg/kg
Benzo[b]fluoranthene	6.2E+3	<380	<370	<380	<370	<370
Benzo[g,h,I]perylene	NE	<380	<370	<380	<370	<370
Benzo[k]fluoranthene	6.2E+4	<380	<370	<380	<370	<370
Benzoic acid	1.0E+8*	<770	<750	<760	<740	<740
Benzyl alcohol	1.8E+7*	<380	<370	<380	<370	<370
bis(2-Chloroethoxy)methane	NE	<380	<370	<380	<370	<370
bis(2-Chloroethyl)ether	4.4E+3	<380	<370	<380	<370	<370
bis(2-Ethylhexyl)phthalate	6.0E+3	<380	<370	<380	<370	<370
Butylbenzylphthalate	2.4E+5*	<380	<370	<380	<370	<370
Carbazole	2.4E+4*	<380	<370	<380	<370	<370
Chrysene	6.1E+5	<380	<370	<380	<370	<370
Di-n-butylphthalate	NE	<380	<370	<380	120 J	270 J
Di-n-octylphthalate	1.2E+6*	<380	<370	<380	<370	<370
Dibenz[a,h]anthracene	6.2E+2	<380	<370	<380	<370	<370
Dibenzofuran	2.9E+5	<380	<370	<380	<370	<370
Diethylphthalate	4.9E+7	<380	<370	<380	<370	<370
Dimethylphthalate	1.0E+8	<380	<370	<380	<370	<370
Fluoranthene	2.3E+6	<380	<370	<380	<370	<370
Fluorene	2.1E+6	<380	<370	<380	<370	<370
Hexachlorobenzene	3.0E+3	<380	<370	<380	<370	<370
Hexachlorobutadiene	1.2E+4	<380	<370	<380	<370	<370
Hexachlorocyclopentadiene	4.2E+5	<380	<370	<380	<370	<370
Hexachloroethane	6.1E+4	<380	<370	<380	<370	<370
Indeno[1,2,3-cd]pyrene	6.2E+3	<380	<370	<380	<370	<370
Isophorone	5.1E+6	<380	<370	<380	<370	<370
N-Nitroso-di-n-propylamine	70*	<380	<370	<380	<370	<370
N-Nitrosodiphenylamine	9.9E+5	<380	<370	<380	<370	<370
Naphthalene	5.3E+4	<380	<370	<380	<370	<370
Nitrobenzene	1.7E+4	<380	<370	<380	<370	<370
Pentachlorophenol	3.0E+3*	<380	<370	<380	<370	<370
Phenanthrene	1.8E+6	<380	<370	<380	<370	<370
Phenol	3.7E+7	<380	<370	<380	<370	<370

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
** Not Established by New Mexico or EPA Region VI. Level given is from the EPA Region IX Preliminary Remediation Goals.
^ Level is based on Total Xylenes (m,p, and o).
J Analyte was detected below the reporting limit. Reported concentration is an estimate.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.

5.2.4 Pesticides and PCBs

Table 5-15 on the following page lists the analytical results for pesticides and PCBs from samples collected within the ramp area.

No PCBs or Pesticides were detected.

Table 5-15.
Pesticide and PCB Analytical Results from the Ramp Area Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB09 (7.0) µg/kg	SB10 (7.0) µg/kg	SB11 (7.0) µg/kg	SB12 (7.0) µg/kg	SB13 (7.0) µg/kg
4,4'-DDD	2.4E+4	<3.8	<3.7	<3.8	<3.7	<3.7
4,4'-DDE	1.7E+4	<3.8	<3.7	<3.8	<3.7	<3.7
4,4'-DDT	1.7E+4	<3.8	<3.7	<3.8	<3.7	<3.7
Aldrin	2.9E+2	<2	<1.9	<1.9	<1.9	<1.9
alpha-BHC	9.0E+2	<2	<1.9	<1.9	<1.9	<1.9
alpha-Chlordane	NE	<2	<1.9	<1.9	<1.9	<1.9
Aroclor-1016	3.9E+3	<38	<37	<38	<37	<37
Aroclor-1221	2.2E+3	<76	<74	<75	<73	<73
Aroclor-1232	2.2E+3	<38	<37	<38	<37	<37
Aroclor-1242	2.2E+3	<38	<37	<38	<37	<37
Aroclor-1248	1.1E+3	<38	<37	<38	<37	<37
Aroclor-1254	1.1E+3	<38	<37	<38	<37	<37
Aroclor-1260	1.1E+3	<38	<37	<38	<37	<37
beta-BHC	3.2E+3	<2	<1.9	<1.9	<1.9	<1.9
delta-BHC	NE	<2	<1.9	<1.9	<1.9	<1.9
Dieldrin	3.0E+2	<3.8	<3.7	<3.8	<3.7	<3.7
Endosulfan I	NE	<2	<1.9	<1.9	<1.9	<1.9
Endosulfan II	NE	<3.8	<3.7	<3.8	<3.7	<3.7
Endosulfan sulfate	NE	<3.8	<3.7	<3.8	<3.7	<3.7
Endrin	1.8E+4	<3.8	<3.7	<3.8	<3.7	<3.7
Endrin aldehyde	NE	<3.8	<3.7	<3.8	<3.7	<3.7
Endrin ketone	NE	<3.8	<3.7	<3.8	<3.7	<3.7
gamma-BHC (Lindane)	4.4E+3	<2	<1.9	<1.9	<1.9	<1.9
gamma-Chlordane	NE	<2	<1.9	<1.9	<1.9	<1.9
Heptachlor	1.1E+3	<2	<1.9	<1.9	<1.9	<1.9
Heptachlor epoxide	53*	<2	<1.9	<1.9	<1.9	<1.9
Methoxychlor	3.1E+5*	<20	<19	<19	<19	<19
Toxaphene	4.4E+3	<200	<190	<190	<190	<190

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

5.2.5 Herbicides

Table 5-16 lists herbicide analytical results from samples collected in the ramp area. No herbicides were detected.

Table 5-16.
Herbicide Analytical Results from the Ramp Area Soil Borings.

Analyte	NMED Residential SSL µg/kg	SB09 (7.0) µg/kg	SB10 (7.0) µg/kg	SB11 (7.0) µg/kg	SB12 (7.0) µg/kg	SB13 (7.0) µg/kg
2,4,5-T	6.1E+5*	<3.1	<3	<3	<3	<3
2,4,5-TP	4.9E+5*	<3.1	<3	<3	<3	<3
2,4-D	6.9E+5*	<3.1	<3	<3	<3	<3
2,4-DB	4.9E+5*	<3.1	<3	<3	<3	<3
Dicamba	1.8E+6*	<3.1	<3	<3	<3	<3
Dichlorprop	NE	<3.1	<3	<3	<3	<3
Dinoseb	6.1E+4*	<3.1	<3	<3	<3	<3

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

5.2.6 Explosives

Table 5-17 lists explosive analytical results from samples collected in the ramp area. No explosives were detected.

Table 5-17 Explosive Analytical Results from Ramp Area.

Analyte	NMED Residential SSL mg/kg	SB09 (7.0) mg/kg	SB10 (7.0) mg/kg	SB11 (7.0) mg/kg	SB12 (7.0) mg/kg	SB13 (7.0) mg/kg
1,3,5-Trinitrobenzene	1.8E+3*	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dinitrobenzene	6.1*	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trinitrotoluene	31	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrotoluene	1.2E+2	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	61*	<0.5	<0.5	<0.5	<0.5	<0.5
2-Amino-4,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5
3-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5
4-Amino-2,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5
HMX	3.1E+3	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	17	<0.5	<0.5	<0.5	<0.5	<0.5
RDX	44	<0.5	<0.5	<0.5	<0.5	<0.5
Tetryl	NE	<0.5	<0.5	<0.5	<0.5	<0.5

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

6.0 SITE CONCEPTUAL MODEL

A site diagram including the approximate landfill cell, excavation area, and assumed groundwater flow direction was developed and is presented as Figure 6-1. Although information obtained during the personnel interview indicated the landfill was only 15 ft wide, the diagram below shows the trench "buried metal" to vary from 20 ft to 30 ft across. As discussed in Section 3.3, this diagram is based on the geophysical survey and incorporates the "scatter" that was picked up by the survey instrument. The maximum extent shown in the figure incorporates the lowest detected response from the survey instrument and can't reliably be determined as part of the landfill cell. The highest response in the center of the geophysical anomaly is up to 15 ft across. From this, it is inferred that the actual width of the trench is closer to 15 ft as discussed in Section 3.3 from the personnel interview. The total depth of the landfill cell is estimated from 8 ft – 10 ft deep. Although the interview with facility personnel indicated the trench was only 100 ft long, all indications from the geophysical survey indicate the trench was closer to 200 ft long. The cross-section of the landfill cell is expected to be rectangular as indicated in Figure 4-2.

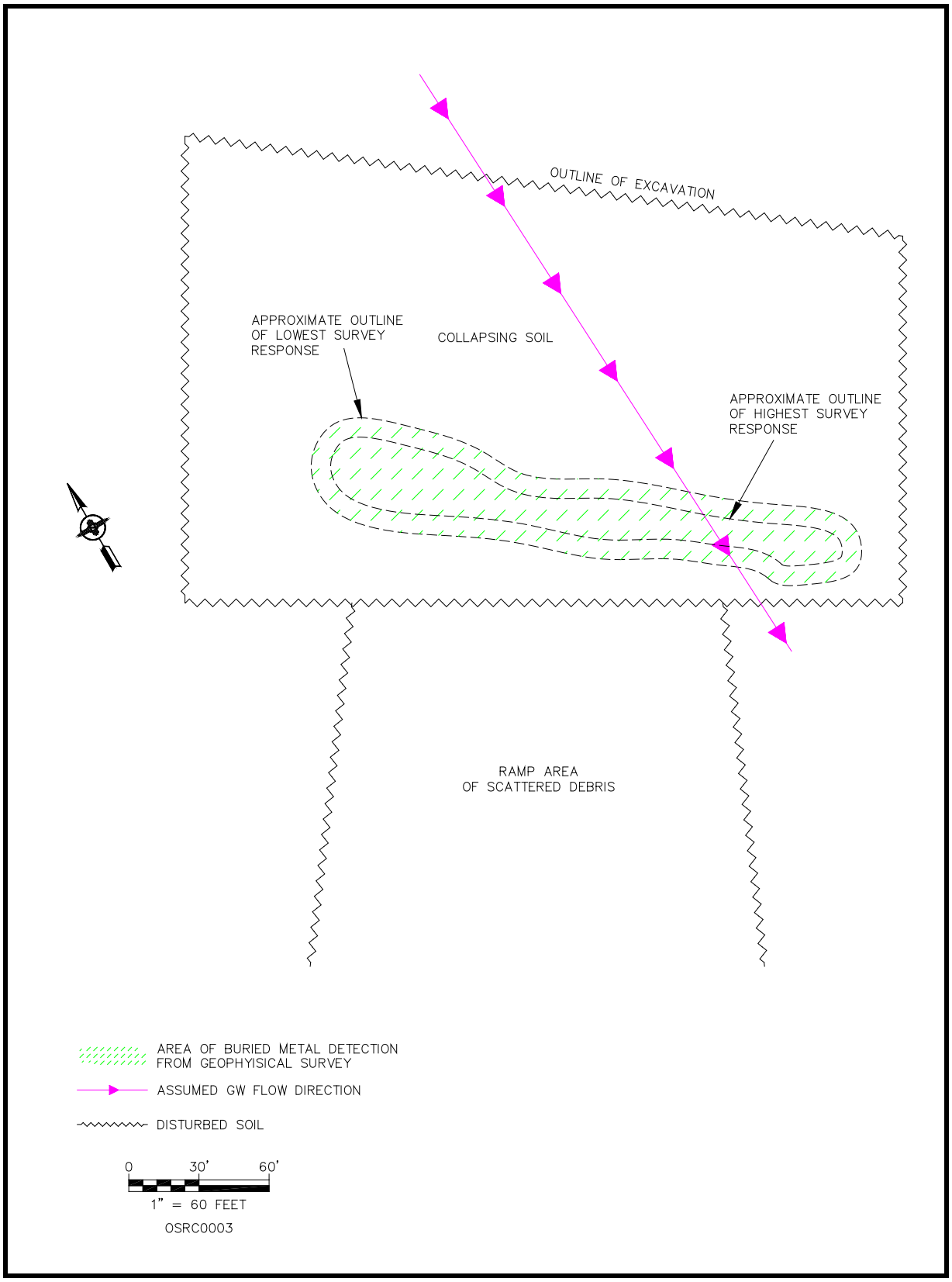

Figure 6-1. Site Conceptual Model.

6.1 Site Specific Lithology and Hydraulic Conductivity

The site specific lighology in the immediate area of the landfill was obtained from the field geologist's lithologic logs of the soil borings. A copy of all field logs is included as Appendix E. The interval from ground surface to 10 ft bgs is characterized as unconsolidated fine sand, silt, and red clay. From 10 ft bgs to 15 ft bgs, the interval is characterized as dark reddish brown clay with silt and gypsum. The interval from 15 ft bgs to 20 ft bgs is characterized as dark reddish brown sandy-, silty-clay with minor dark black organic material. From 20 ft bgs to 24 ft bgs, the interval is characterized as silty, fine-grained sand and reddish brown clay. The interval from 24 ft bgs to 25 ft bgs is characterized as dark brown clay with gypsum. From 25 ft bgs to 30 ft bgs, the interval is characterized as fine sand, silt, and red clay.

Based on the lithology (as described above) of the interval beneath the base of the landfill 10 ft-15 ft (clay with silt and gypsum) an estimate of the hydraulic conductivity can be made. Given the estimated hydraulic conductivity, the distance possible contaminants from the landfill could travel given enough precipitation over the 15 years that the landfill has existed can be calculated. The hydraulic conductivity of this lithology can be 3.9E-7 in/sec (Fetter, 1988). Over 15 years, water can travel up to 15 ft in this type of sediment. If contaminants were present in the landfill, we would expect to have detected them in the collected soil samples.

7.0 SITE ASSESSMENT

7.1 Human Health

7.1.1 Contaminants of Potential Concern

All analytical results from this investigation were compared to their respective screening levels (NMED residential SSLs or EPA Region VI HHSSLs) (Sections 5.1 and 5.2). With the exception of two arsenic detections, no analytes were in concentrations greater than their respective screening levels. Arsenic was detected in one of the landfill cell soil borings (ORCSB-02 at 15.0 ft bgs) at 4.1 mg/kg, above the NMED SSL of 3.9 mg/kg. Arsenic was detected in two other borings (ORCSB-05 and ORCSB-08 at 15.0 ft bgs) at the screening level of 3.9 mg/kg. Arsenic was also detected above the SSL in the background boring SB-15 (15.0 ft bgs) at 4.4 mg/kg. Section 5.1.1.2 outlines the statistical comparison (*t*-distribution) for comparison of background samples to the landfill cell soil sample analyses. Based on the *t*-distribution, there is no evidence that the background samples for arsenic and the landfill cell samples came from different populations. As stated in the *Technical Background Document for Development of Soil Screening Levels* (NMED, 2000), any contaminants exhibiting concentrations in excess of the SSLs represent the initial soil Contaminants of Potential Concern (COPC) list for a given site. Based on the analytical results from this investigation, comparison to background results, and guidance from the technical background document, there are no contaminants of potential concern identified at the SWMU 159.

7.1.2 Air Exposure Pathway

The air exposure pathway is considered incomplete for the following reasons: There are no COPCs identified at the site; the landfill is covered with clean fill material; and the surface samples collected during August 1997 revealed no analyte concentrations in excess of screening levels (NMED SSLs and/or EPA Region VI HHSSLs).

7.1.3 Soil Exposure Pathway

The pathway for exposure to soil contaminants is considered incomplete for the following reasons: there are no COPCs identified at this site; the landfill is covered with fill material; the site is unoccupied; and there are no residents, workers, schools, or daycare facilities within two miles of SWMU 159.

7.1.4 Surface Water Exposure Pathway

Figure 7-1 is a topographic map showing a five-mile contiguous area surrounding the ORC site. The surface water exposure pathway is considered incomplete for the following reasons: The closest ephemeral water body is an arroyo which lies approximately 500 ft to the southwest of SWMU 159; and there are no perennial water bodies near the site.

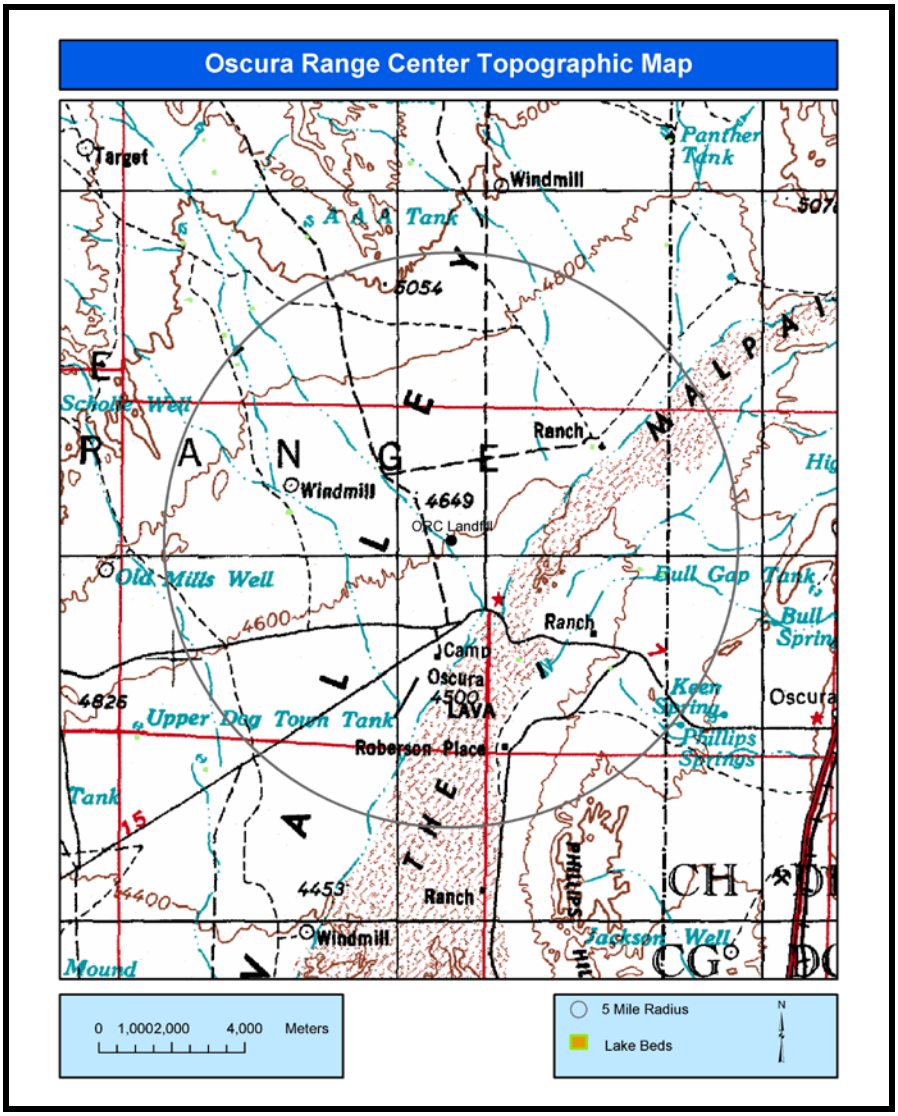

Figure 7-1.
Topographic Map of Oscura Range Center and the Construction Landfill.

7.1.5 Ground Water Exposure Pathway

Ground-water monitoring wells have not been installed at SWMU 159; therefore analysis of the ground water beneath the landfill has not occurred. The ground water at the ORC Bombing Range located approximately 1.5 miles to the west of SWMU 159 has been sampled on a semi-annual basis. Groundwater at the bombing range is at a depth of approximately 200 ft. Laboratory analyses of the groundwater from wells at the bombing range indicate that the TDS concentration is over 3,000 milligrams per liter (mg/L) (MEVATEC, 2000).

Water was not encountered down to a depth of 30 ft bgs in the soil borings completed at SWMU 159. Depth to ground water at SWMU 159 is expected to be close to that observed at the bombing range (200 ft bgs). The ground-water exposure pathway at SWMU 159 is considered incomplete due to: no COPCs have been identified at this site; the expected depth to ground water is approximately 200 ft bgs; and the presence of clays beneath the landfill would retard movement of contaminants if present.

7.2 Ecological

Appendix F contains the *Screening Level Ecological Risk Assessment Site Assessment Checklist* (NMED, 2000) for SWMU 159. This checklist was completed based on evidence gathered during this RFI investigation and previous investigations (surface soil samples, personnel interview, and geophysical survey). Additionally, a wildlife biologist conducted a biological pedestrian survey of the SWMU 159 site. Results of the survey are included in the biologist's Site Visit Report in Appendix F. Based on the completed *Screening Level Ecological Risk Assessment Checklist* (NMED, 2000), a full Ecological Assessment is not warranted at this time.

8.0 CONCLUSIONS

This RFI was conducted to determine if leachate from SWMU 159 had contaminated soil beneath the landfill cell and the ramp area south of the cell. The landfill cell was located based on a geophysical survey conducted in 1998 and interview with facility personnel. Based on the geophysical survey the landfill was defined as being approximately 200 ft long, 15 ft wide, and 8 ft to 10 ft deep. Using results from the geophysical survey, historical information, and conditions at the site, soil boring positions were chosen to best determine presence/absence of soil contamination beneath the site. Eight soil borings were augered at a 40º angle beneath the landfill cell for collection of 11 soil samples. Five soil borings were augered in the ramp area for collection of an additional 5 soil samples. All soil borings were positioned to ensure that if leachate had contaminated soil at the site, it would be discovered.

All collected soil samples were analyzed for VOCs, SVOCs, TPH, pesticides, herbicides, total phosphorus, explosive residues, perchlorate, PCBs, and total metals. Only one analyte, arsenic, was determined above NMED SSLs. All other detections were well below their respective SSLs. However, arsenic was determined to be within background concentrations. All of the inorganic analytes detected beneath the landfill cell and ramp area, with the exception of total phosphorus, were determined to be within background concentrations. The total phosphorus concentrations could be the result of natural variations of soil nutrients across the site. Of the known materials disposed of in the landfill (construction debris and possible metallic debris from missiles) elevated levels of phosphorus would not be expected.

None of the soil samples contained detectable concentrations of pesticides, herbicides, explosive residues, TPH, or perchlorate. Minor concentrations (below the reporting limit or just above) of a few VOCs and SVOCs were detected but are probably the result of laboratory cross-contamination.

Soil borings for this investigation were positioned such that samples were collected from locations beneath the landfill and ramp area where contamination would likely be present. However, no COPCs were detected in the course of this investigation. The results of this investigation indicate that leachate has not contaminated soil beneath the landfill or the ramp area. Additionally, this investigation has determined that no routes (air, soil, surface water, or ground water) for exposure to human health exist at the site. Based on the *Screening Level Ecological Risk Assessment* (NMED, 2000), a full Ecological Assessment is not warranted at this time.

9.0 RECOMMENDATION

Information collected up to and including this RFI indicate that there are no potential adverse effects posed by SWMU 159. As summarized in the conclusions, there were no detections that would indicate that contaminants are leaching from the landfill. All evidence gathered to date, including personnel interviews, geophysical survey, and surface/subsurface soil sampling, indicates that nothing more than the reported construction debris and metallic debris from spent rocket components were disposed in the landfill. There were no pathways identified for human exposure to the landfill debris material. Additionally, a complete ecological exposure pathway is not present. Demography, land use, ground-water use and surface-water use do not pose health risks to humans or the ecology of the site. Although this investigation has shown no contamination currently associated with SWMU 159, WSMR proposes to remove the debris and clean close the site to eliminate the need for long term monitoring and ensure that no future contaminant release occurs.

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ATTACHMENT 1

Background Results

BACKGROUND INORGANICS

Analyte	NMED Residential SSL	SB014 (7.0)	SB14 (15.0)	SB14 (20.0)	SB15 (7.0)	SB15 (15.0)	SB15 (20.0)
Arsenic	3.9	3.3	3.8	3.3	2.7	4.4	3
Barium	5,200	361 N	215 N	327 N	147 N	244 N	242 N
Cadmium	70	<4.1	<4.2	<4.4	<4.3	<5.1	<4.1
Chromium	210*	21.2	30	27.5	19.1	37.2	15.9
Copper	2,800	10.5	15.3	12.8	10	21.4	9.7
Lead	400	8.1	11	9.3	8.2	14.1	8.1
Magnesium	NE	7730 E	10200 E	10200 E	6640 E	14800 E	7860 E
Manganese	7,800	296	407	292	516	577	311
Selenium	380	<0.82 N	0.84 N	<0.88 N	<0.86 N	<1 N	<0.81 N
Silver	380	<0.08	<0.08	<0.09	<0.09	<0.1	<0.08
Mercury	6.5	<0.03	<0.04	<0.04	<0.04	<0.04	<0.04
Perchlorate	7.8*	<0.044	<0.044	<0.048	<0.044	<0.051	<0.043
Total Phosphorus	NE	2400	450	430	360	750	360

< Not Detected. Less than the given laboratory reporting limit.
NE A screening level has not been established.
Italics Result is greater than the laboratory reporting limit.
Bold Result is greater than the NMED Residential Soil Screening Level.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
N Spiked sample recovery not within control limits.
E The reported value is estimated because of the presence of interference.

BACKGROUND HERBICIDES

Analyte	NMED Residential SSL µg/kg	SB14 (7.0) µg/kg	SB14 (15.0) µg/kg	SB14 (20.0) µg/kg	SB15 (7.0) µg/kg	SB15 (15.0) µg/kg	SB15 (20.0) µg/kg
2,4,5-T	6.1E+5*	<2.8	<3	<3.1	<2.9	<3.4	<2.9
2,4,5-TP	4.9E+5*	<2.8	<3	<3.1	<2.9	<3.4	<2.9
2,4-D	6.9E+5*	<2.8	<3	<3.1	<2.9	<3.4	<2.9
2,4-DB	4.9E+5*	<2.8	<3	<3.1	<2.9	<3.4	<2.9
Dicamba	1.8E+6*	<2.8	<3	<3.1	<2.9	<3.4	<2.9
Dichlorprop	NE	<2.8	<3	<3.1	<2.9	<3.4	<2.9
Dinoseb	6.1E+4*	<2.8	<3	<3.1	<2.9	<3.4	<2.9

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

BACKGROUND PESTICIDES/PCBs

Analyte	NMED Residential SSL µg/kg	SB14 (7.0) µg/kg	SB14 (15.0) µg/kg	SB14 (20.0) µg/kg	SB15 (7.0) µg/kg	SB15 (15.0) µg/kg	SB15 (20.0) µg/kg
4,4'-DDD	2.4E+4	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
4,4'-DDE	1.7E+4	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
4,4'-DDT	1.7E+4	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Aldrin	2.9E+2	<1.8	<1.9	<2	<1.8	<2.2	<1.8
alpha-BHC	9.0E+2	<1.8	<1.9	<2	<1.8	<2.2	<1.8
alpha-Chlordane	NE	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Aroclor-1016	3.9E+3	<35	<37	<38	<35	<42	<35
Aroclor-1221	2.2E+3	<70	<73	<77	<71	<85	<71
Aroclor-1232	2.2E+3	<35	<37	<38	<35	<42	<35
Aroclor-1242	2.2E+3	<35	<37	<38	<35	<42	<35
Aroclor-1248	1.1E+3	<35	<37	<38	<35	<42	<35
Aroclor-1254	1.1E+3	<35	<37	<38	<35	<42	<35
Aroclor-1260	1.1E+3	<35	<37	<38	<35	<42	<35
beta-BHC	3.2E+3	<1.8	<1.9	<2	<1.8	<2.2	<1.8
delta-BHC	NE	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Dieldrin	3.0E+2	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Endosulfan I	NE	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Endosulfan II	NE	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Endosulfan sulfate	NE	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Endrin	1.8E+4	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Endrin aldehyde	NE	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
Endrin ketone	NE	<3.5	<3.7	<3.8	<3.5	<4.2	<3.5
gamma-BHC (Lindane)	4.4E+3	<1.8	<1.9	<2	<1.8	<2.2	<1.8
gamma-Chlordane	NE	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Heptachlor	1.1E+3	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Heptachlor epoxide	53*	<1.8	<1.9	<2	<1.8	<2.2	<1.8
Methoxychlor	3.1E+5*	<18	<19	<20	<18	<22	<18
Toxaphene	4.4E+3	<180	<190	<200	<180	<220	<180

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

BACKGROUND EXPLOSIVES

Analyte	NMED Residential SSL mg/kg	SB14 (7.0) mg/kg	SB14 (15.0) mg/kg	SB14 (20.0) mg/kg	SB15 (7.0) mg/kg	SB15 (15.0) mg/kg	SB15 (20.0) mg/kg
1,3,5-Trinitrobenzene	1.8E+3*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dinitrobenzene	6.1*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trinitrotoluene	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dinitrotoluene	1.2E+2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	61*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Amino-4,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
3-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Amino-2,6-Dinitrotoluene	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Nitrotoluene	3.7E+2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HMX	3.1E+3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RDX	44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetryl	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.

BACKGROUND VOCs

Analyte	NMED SSL µg/kg	SB14 (7.0) µg/kg	SB14 (15.0) µg/kg	SB14 (20.0) µg/kg	SB15 (7.0) µg/kg	SB15 (15.0) µg/kg	SB15 (20.0) µg/kg
1,1,1-Trichloroethane	5.1E+5	<13	<14	<17	<15	<16	<12
1,1,2,2-Tetrachloroethane	3.6E+3	<13	<14	<17	<15	<16	<12
1,1,2-Trichloroethane	7.9E+3	<13	<14	<17	<15	<16	<12
1,1-Dichloroethane	5.6E+5	<13	<14	<17	<15	<16	<12
1,1-Dichloroethene	8.1E+3	<13	<14	<17	<15	<16	<12
1,2-Dichloroethane	3.3E+3	<13	<14	<17	<15	<16	<12
1,2-Dichloropropane	3.5E+2*	<13	<14	<17	<15	<16	<12
2-Butanone	3.7E+6	<44	<46	<58	<49	<53	<38
2-Hexanone	NE	<44	<46	<58	<49	<53	<38
4-Methyl-2-pentanone	NE	<44	<46	<58	<49	<53	<38
Acetone	1.6E+6*	20 J	21 J	26 J	21 J	22 J	19 J
Benzene	6.4E+3	<13	<14	<17	<15	<16	<12
Bromodichloromethane	9.6E+3	<13	<14	<17	<15	<16	<12
Bromoform	6.2E+4	<13	<14	<17	<15	<16	<12
Bromomethane	3.7E+3	<13	<14	<17	<15	<16	<12
Carbon disulfide	3.6E+5*	<13	<14	<17	<15	<16	<12
Carbon tetrachloride	1.6E+3	<13	<14	<17	<15	<16	<12
Chlorobenzene	1.4E+5	<13	<14	<17	<15	<16	<12
Chloroethane	3.0E+3**	<13	<14	<17	<15	<16	<12
Chloroform	3.8E+2	<13	<14	<17	<15	<16	<12
Chloromethane	1.2E+4	<13	<14	<17	<15	<16	<12
cis-1,2-Dichloroethene	4.1E+4	<13	<14	<17	<15	<16	<12
cis-1,3-Dichloropropene	NE	<13	<14	<17	<15	<16	<12
Dibromochloromethane	1.0E+3*	<13	<14	<17	<15	<16	<12
Dichlorodifluoromethane	9.0E+4	<13	<14	<17	<15	<16	<12
Ethylbenzene	6.8E+4	<13	<14	<17	<15	<16	<12
m,p-Xylene	6.3E+4^	<13	<14	<17	<15	<16	<12
Methylene chloride	8.9E+3*	10 BJ	13 BJ	17 BJ	14 BJ	16 BJ	21 B
o-Xylene	6.3E+4^	<13	<14	<17	<15	<16	<12
Styrene	1.7E+6*	<13	<14	<17	<15	<16	<12
Tetrachloroethene	4.9E+4	<13	<14	<17	<15	<16	<12
Toluene	1.8E+5	<13	<14	<17	<15	<16	<12
trans-1,2-Dichloroethene	6.0E+4	<13	<14	<17	<15	<16	<12
trans-1,3-Dichloropropene	NE	<13	<14	<17	<15	<16	<12
Trichloroethene	1.6E+4	<13	<14	<17	<15	<16	<12
Trichlorofluoromethane	3.9E+5*	<13	<14	<17	<15	<16	<12
Vinyl chloride	2.1E+2	<13	<14	<17	<15	<16	<12
Total Petroleum Hydrocarbons	**NMED SSL mg/kg**	**SB14 (7.0) mg/kg**	**SB14 (15.0) mg/kg**	**SB14 (20.0) mg/kg**	**SB15 (7.0) mg/kg**	**SB15 (15.0) mg/kg**	**SB15 (20.0) mg/kg**
Gasoline Range Organics	NE	<5.3	<5.6	<5.8	<5.4	<6.4	<5.4
Diesel Range Organics	NE	<27	<28	<29	<27	<32	<27
Motor Oil	NE	<110	<110	<120	<110	<130	<110

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.
B Analyte was also detected in the method blank for that sample.
J Analyte was detected below the reporting limit. Reported concentration is an estimate.

BACKGROUND SVOCs

Analyte	NMED Residential SSL µg/kg	SB14 (7.0) µg/kg	SB14 (15.0) µg/kg	SB14 (20.0) µg/kg	SB15 (7.0) µg/kg	SB15 (15.0) µg/kg	SB15 (20.0) µg/kg
1,2,4-Trichlorobenzene	5.2E+6	<350	<370	<390	<360	<430	<360
1,2-Dichlorobenzene	337E+5*	<350	<370	<390	<360	<430	<360
1,2-Diphenylhydrazine	6.1E+3	<350	<370	<390	<360	<430	<360
1,3-Dichlorobenzene	1.2E+4	<350	<370	<390	<360	<430	<360
1,4-Dichlorobenzene	3.2E+4	<350	<370	<390	<360	<430	<360
2,2'-oxybis(1-Chloropropane)	NE	<350	<370	<390	<360	<430	<360
2,4,5-Trichlorophenol	6.1E+6	<350	<370	<390	<360	<430	<360
2,4,6-Trichlorophenol	4.4E+5	<350	<370	<390	<360	<430	<360
2,4-Dichlorophenol	1.8E+5	<350	<370	<390	<360	<430	<360
2,4-Dimethylphenol	1.2E+6*	<350	<370	<390	<360	<430	<360
2,4-Dinitrophenol	1.2E+5	<710	<740	<780	<720	<850	<720
2,4-Dinitrotoluene	1.2E+5	<350	<370	<390	<360	<430	<360
2,6-Dinitrotoluene	6.1E+4*	<350	<370	<390	<360	<430	<360
2-Chloronaphthalene	3.9E+6*	<350	<370	<390	<360	<430	<360
2-Chlorophenol	6.4E+4*	<350	<370	<390	<360	<430	<360
2-Methylnaphthalene	NE	<350	<370	<390	<360	<430	<360
2-Methylphenol	3.1E+6*	<350	<370	<390	<360	<430	<360
2-Nitroaniline	3.7E+3*	<350	<370	<390	<360	<430	<360
2-Nitrophenol	NE	<350	<370	<390	<360	<430	<360
3,3'-Dichlorobenzidine	1.1E+4	<350	<370	<390	<360	<430	<360
3-Nitroaniline	NE	<350	<370	<390	<360	<430	<360
4,6-Dinitro-2-methylphenol	NE	<350	<370	<390	<360	<430	<360
4-Bromophenyl-phenylether	NE	<350	<370	<390	<360	<430	<360
4-Chloro-3-methylphenol	NE	<350	<370	<390	<360	<430	<360
4-Chloroaniline	2.4E+5*	<350	<370	<390	<360	<430	<360
4-Chlorophenyl-phenylether	NE	<350	<370	<390	<360	<430	<360
4-Methylphenol	3.1E+5*	<350	<370	<390	<360	<430	<360
4-Nitroaniline	NE	<350	<370	<390	<360	<430	<360
4-Nitrophenol	4.9E+5*	<350	<370	<390	<360	<430	<360
Acenaphthene	2,800,000	<350	<370	<390	<360	<430	<360
Acenaphthylene	NE	<350	<370	<390	<360	<430	<360
Anthracene	1.6E+7	<350	<370	<390	<360	<430	<360
Benzidine	21	<350	<370	<390	<360	<430	<360
Benzo[a]anthracene	6.2E+3	<350	<370	<390	<360	<430	<360
Benzo[a]pyrene	6.2E+2	<350	<370	<390	<360	<430	<360
Benzo[b]fluoranthene	6.2E+3	<350	<370	<390	<360	<430	<360
Benzo[g,h,I]perylene	NE	<350	<370	<390	<360	<430	<360
Benzo[k]fluoranthene	6.2E+4	<350	<370	<390	<360	<430	<360
Benzoic acid	1.0E+8*	<710	<740	<780	<720	<850	<720
Benzyl alcohol	1.8E+7*	<350	<370	<390	<360	<430	<360
bis(2-Chloroethoxy)methane	NE	<350	<370	<390	<360	<430	<360
bis(2-Chloroethyl)ether	4.4E+3	<350	<370	<390	<360	<430	<360
bis(2-Ethylhexyl)phthalate	6.0E+3	<350	<370	<390	<360	<430	<360
Butylbenzylphthalate	2.4E+5*	<350	<370	<390	<360	<430	<360
Carbazole	2.4E+4*	<350	<370	<390	<360	<430	<360
Chrysene	6.1E+5	<350	<370	<390	<360	<430	<360
Di-n-butylphthalate	NE	<350	<370	<390	280 J	280 J	<360
Di-n-octylphthalate	1.2E+6*	<350	<370	<390	<360	<430	<360
Dibenz[a,h]anthracene	6.2E+2	<350	<370	<390	<360	<430	<360

Analyte	NMED Residential SSL µg/kg	SB14 (7.0) µg/kg	SB14 (15.0) µg/kg	SB14 (20.0) µg/kg	SB15 (7.0) µg/kg	SB15 (15.0) µg/kg	SB15 (20.0) µg/kg
Dibenzofuran	2.9E+5	<350	<370	<390	<360	<430	<360
Diethylphthalate	4.9E+7	<350	<370	<390	<360	<430	<360
Dimethylphthalate	1.0E+8	<350	<370	<390	<360	<430	<360
Fluoranthene	2.3E+6	<350	<370	<390	<360	<430	<360
Fluorene	2.1E+6	<350	<370	<390	<360	<430	<360
Hexachlorobenzene	3.0E+3	<350	<370	<390	<360	<430	<360
Hexachlorobutadiene	1.2E+4	<350	<370	<390	<360	<430	<360
Hexachlorocyclopentadiene	4.2E+5	<350	<370	<390	<360	<430	<360
Hexachloroethane	6.1E+4	<350	<370	<390	<360	<430	<360
Indeno[1,2,3-cd]pyrene	6.2E+3	<350	<370	<390	<360	<430	<360
Isophorone	5.1E+6	<350	<370	<390	<360	<430	<360
N-Nitroso-di-n-propylamine	70*	<350	<370	<390	<360	<430	<360
N-Nitrosodiphenylamine	9.9E+5	<350	<370	<390	<360	<430	<360
Naphthalene	5.3E+4	<350	<370	<390	<360	<430	<360
Nitrobenzene	1.7E+4	<350	<370	<390	<360	<430	<360
Pentachlorophenol	3.0E+3*	<350	<370	<390	<360	<430	<360
Phenanthrene	1.8E+6	<350	<370	<390	<360	<430	<360
Phenol	3.7E+7	<350	<370	<390	<360	<430	<360

< Not Detected. Less than the given laboratory reporting limit.
* Not Established by New Mexico. Level given is from the EPA Region VI Human Health Specific Screening Levels.
NE A screening level has not been established.
J Analyte was detected below the reporting limit. Reported concentration is an estimate.

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APPENDIX A

Analytical Results from the 1997 Surface Soil Sampling

Westech of Texas, Inc.
The Quality People
Since 1955

4725 Ripley Drive, Suite A
El Paso, Texas 79922-1028
(915) 585-3443 • fax 585-4944

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 08-22-97
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LF03-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --

Inorganic Chemistry-Total Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Arsenic .....:	4.0	mg/Kg	1.3	08-20-97	SW 7061	N. Munir
Total Barium .....:	280	mg/Kg	25.	08-21-97	SW 7080A	N. Munir
Total Cadmium .....:	<1.3	mg/Kg	1.3	08-22-97	SW 7130	N. Munir
Total Chromium .....:	25.	mg/Kg	2.5	08-22-97	SW 7190	N. Munir
Total Copper .....:	18.	mg/Kg	1.3	08-22-97	SW 7210	N. Munir
Total Lead .....:	23.	mg/Kg	4.0	08-20-97	SW 7420	N. Munir
Total Magnesium .....:	8600	mg/Kg	25.	77-03-16	SW 7450	N. Munir
Total Manganese .....:	510	mg/Kg	1.3	08-22-97	SW 7460	N. Munir
Total Mercury .....:	<0.50	mg/Kg	0.50	08-22-97	SW-7471	N. Munir
Total Selenium .....:	<1.3	mg/Kg	1.3	08-20-97	SW 7741A	N. Munir
Total Silver .....:	1.3	mg/Kg	1.3	08-22-97	SW 7760A	N. Munir

(1) Copy to Client

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. SUBTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

Westech of Texas, Inc.
The Quality People
Since 1955

4725 Ripley Drive, Suite A
El Paso, Texas 79922-1028
(915) 585-3443 • fax 585-4944

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-11-97
REVIEWED BY: MGM
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LF03-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --

Inorganic Non-Metals-Solids

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Phosphorus .....:	690	mg/Kg	2.5	08-25-97	SM-mod4500 P E	ATEL

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY

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The Quality People
Since 1955

4725 Ripley Drive, Suite A
El Paso, Texas 79922-1028
(915) 585-3443 • fax 585-4944

ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : ORC-LF03-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-15-97
ANALYSIS DATE .: 09-11-97

Method 8081 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<10.	ug/Kg	10.
4,4'-DDE	<10.	ug/Kg	10.
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<30.	ug/Kg	30.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<25.	ug/Kg	25.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<100.	ug/Kg	100.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<100.	ug/Kg	100.
PCB 1232	<100.	ug/Kg	100.
PCB 1242	<100.	ug/Kg	100.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<100.	ug/Kg	100.

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 2 OF 2

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Tetrachloro-m-Xylene .....:	70.5	34-118
Decachlorobiphenyl .....:	93.0	56-147

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ANALYTICAL REPORT

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PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LFO3-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-22-97
ANALYSIS DATE .: 08-28-97

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<0.04	mg/kg	0.04
2,4,5-TP (Silvex)	<0.04	mg/kg	0.04
2,4-D	<0.02	mg/kg	0.02
2,4-DB	<0.02	mg/kg	0.02
Dalapon	<0.20	mg/kg	0.20
Dicamba	<0.04	mg/kg	0.04
Dichlorprop	<0.04	mg/kg	0.04
Dinoseb	<0.01	mg/kg	0.01
MCPA	<2.0	mg/kg	2.0
MCPP	<2.0	mg/kg	2.0

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 1 OF 3

CLIENT SAMPLE ID : ORC-LF03-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --
ANALYSIS DATE .: 08-26-97

8260 Volatile Organics by GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Acetone	0.35	mg/kg	0.10
Ally Chloride	<0.01	mg/kg	0.01
Benzene	<0.005	mg/kg	0.005
Bromochloromethane	<0.005	mg/kg	0.005
Bromodichloromethane	<0.005	mg/kg	0.005
Bromoform	<0.005	mg/kg	0.005
Bromomethane	<0.01	mg/kg	0.01
Carbon Disulfide	<0.005	mg/kg	0.005
Carbon Tetrachloride	<0.005	mg/kg	0.005
Chlorobenzene	<0.005	mg/kg	0.005
Chloroethane	<0.01	mg/kg	0.01
Chloroform	<0.005	mg/kg	0.005
Chloromethane	<0.01	mg/kg	0.01
Chloroprene	<0.02	mg/kg	0.02
1,2-Dibromo-3-chloropropane	<0.01	mg/kg	0.01
Dibromochloromethane	<0.005	mg/kg	0.005
1,2-Dibromoethane(EDB)	<0.01	mg/kg	0.01
Dibromomethane	<0.01	mg/kg	0.01
Trans-1,4-Dichloro-2-Butene	<0.10	mg/kg	0.10
Dichlorodifluoromethane	<0.01	mg/kg	0.01
1,1-Dichloroethane	<0.005	mg/kg	0.005
1,2 Dichloroethane	<0.005	mg/kg	0.005
1,1-Dichloroethene	<0.005	mg/kg	0.005
cis 1,2-Dichloroethene	<0.005	mg/kg	0.005
trans 1,2-Dichloroethene	<0.005	mg/kg	0.005
1,2-Dichloropropane	<0.005	mg/kg	0.005
1,3-Dichloropropane	<0.005	mg/kg	0.005
2,2-Dichloropropane	<0.005	mg/kg	0.005
1,1-Dichloropropene	<0.005	mg/kg	0.005
cis 1,3-Dichloropropene	<0.005	mg/kg	0.005

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PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: MS/M
PAGE : 2 OF 3

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
trans 1,3-Dichloropropene	<0.005	mg/kg	0.005
Ethylbenzene	<0.005	mg/kg	0.005
Ethylmethacrylate	<0.01	mg/kg	0.01
2-Hexanone	<0.050	mg/kg	0.050
Methacrylonitrile	<0.10	mg/kg	0.10
Methyl ethyl ketone	<0.10	mg/kg	0.10
Methyl Iodide	<0.01	mg/kg	0.01
4-Methyl-2-Pentanone (MIBK)	<0.05	mg/kg	0.05
Methylene Chloride	0.015	mg/kg	0.005
Methyl Methacrylate	<0.01	mg/kg	0.01
Propionitrile	<0.25	mg/kg	0.25
Styrene	<0.005	mg/kg	0.005
1,1,1,2-Tetrachloroethane	<0.005	mg/kg	0.005
1,1,2,2-Tetrachloroethane	<0.005	mg/kg	0.005
Tetrachloroethene	<0.005	mg/kg	0.005
Toluene	<0.005	mg/kg	0.005
1,1,1-Trichloroethane	<0.005	mg/kg	0.005
1,1,2-Trichloroethane	<0.005	mg/kg	0.005
Trichloroethene	<0.005	mg/kg	0.005
Trichlorofluoromethane	<0.01	mg/kg	0.01
1,2,3-Trichloropropane	<0.005	mg/kg	0.005
Vinyl Acetate	<0.05	mg/kg	0.05
Vinyl chloride	<0.01	mg/kg	0.01
Xylenes, Total	<0.01	mg/kg	0.01
1,2,3-Trichlorobenzene	<0.005	mg/kg	0.005
1,2,4-Trichlorobenzene	<0.005	mg/kg	0.005
1,2,4-Trimethylbenzene	<0.005	mg/kg	0.005
1,3,5-Trimethylbenzene	<0.005	mg/kg	0.005
2-Chlorotoluene	<0.005	mg/kg	0.005
4-Chlorotoluene	<0.005	mg/kg	0.005
p-Isopropyl Toluene	<0.005	mg/kg	0.005
Hexachlorobutadiene	<0.005	mg/kg	0.005
Isopropylbenzene	<0.005	mg/kg	0.005
Naphthalene	<0.005	mg/kg	0.005
n-Butylbenzene	<0.005	mg/kg	0.005
n-Propylbenzene	<0.005	mg/kg	0.005
sec-Butylbenzene	<0.005	mg/kg	0.005
tert-Butylbenzene	<0.005	mg/kg	0.005

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PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: Mugan
PAGE : 3 OF 3

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Toluene-d8(Surr)	96.0	81-117
Dibromofluoromethane(Surr)	109.0	80-120
Bromofluorobenzene(BFB)(Surr)	88.0	74-121

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WSMR, NM 88002

SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 1 OF 3

CLIENT SAMPLE ID : ORC-LF03-SS01
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: NEL Laboratories

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-26-97
ANALYSIS DATE .: 09-05-97

REMARKS -

One or more surrogates outside of acceptance criteria.

Semi-Volatile Compounds by 8270A

DATA TABLE

Parameter	Result	Unit	Detection Limit
Acenaphthene .....:	<330	ug/Kg	330
Acenaphthylene .....:	<330	ug/Kg	330
Anthracene .....:	<330	ug/Kg	330
Benzo(a)anthracene .....:	<330	ug/Kg	330
Benzo(b&k)fluoranthene .....:	<330	ug/Kg	330
Benzoic acid .....:	<1650	ug/Kg	1650
Benzo(ghi)perylene .....:	<330	ug/Kg	330
Benzo(a)pyrene .....:	<330	ug/Kg	330
Benzyl alcohol .....:	<660	ug/Kg	660
bis(2-Chloroethyl)ether .....:	<330	ug/Kg	330
bis(2-Chloroethoxy)methane .....:	<330	ug/Kg	330
bis(2-Ethylhexyl)phthalate .....:	1500	ug/Kg	330
Butyl benzyl phthalate .....:	<330	ug/Kg	330
4-Bromophenyl phenyl ether .....:	<330	ug/Kg	330
Carbazole .....:	<330	ug/Kg	330
4-Chloroanaline .....:	<660	ug/Kg	660
4-Chloro-3-methylphenol .....:	<660	ug/Kg	660
2-Chloronaphthalene .....:	<330	ug/Kg	330
2-Chlorophenol .....:	<330	ug/Kg	330
4-Chlorophenyl phenyl ether .....:	<330	ug/Kg	330
Chrysene .....:	<330	ug/Kg	330
Dibenzo(a,h)anthracene .....:	<330	ug/Kg	330
Dibenzofuran .....:	<330	ug/Kg	330
Di-n-butyl phthalate .....:	470	ug/Kg	330
1,2-Dichlorobenzene .....:	<330	ug/Kg	330
1,3-Dichlorobenzene .....:	<330	ug/Kg	330

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SAMPLE NO. : 7703169
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: mgm
PAGE : 2 OF 3

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
1,4-Dichlorobenzene	<330	ug/Kg	330
2,4-Dichlorophenol	<330	ug/Kg	330
3,3'-Dichlorobenzidine	<660	ug/Kg	660
Diethyl Phthalate	<330	ug/Kg	330
2,4-Dimethylphenol	<330	ug/Kg	330
Dimethyl phthalate	<330	ug/Kg	330
4,6-Dinitro-2-methylphenol	<1650	ug/Kg	1650
2,4-Dinitrophenol	<1650	ug/Kg	1650
Di-n-octyl phthalate	<330	ug/Kg	330
Fluoranthene	<330	ug/Kg	330
Fluorene	<330	ug/Kg	330
Hexachlorobenzene	<330	ug/Kg	330
Hexachlorobutadiene	<330	ug/Kg	330
Hexachlorocyclopentadiene	<330	ug/Kg	330
Hexachloroethane	<330	ug/Kg	330
Indeno(1,2,3-cd)pyrene	<330	ug/Kg	330
Isophorone	<330	ug/Kg	330
2-Methylnaphthalene	<330	ug/Kg	330
2-Methylphenol	<330	ug/Kg	330
4-Methylphenol	<330	ug/Kg	330
Naphthalene	<330	ug/Kg	330
2-Nitroaniline	<1650	ug/Kg	1650
3-Nitroaniline	<1650	ug/Kg	1650
4-Nitroaniline	<660	ug/Kg	660
Nitrobenzene	<330	ug/Kg	330
2-Nitrophenol	<330	ug/Kg	330
4-Nitrophenol	<1650	ug/Kg	1650
N-Nitrosodi-n-propylamine	<330	ug/Kg	330
N-Nitrosodiethylamine	<330	ug/Kg	330
N-Nitrosodiphenylamine	<330	ug/Kg	330
Pentachlorophenol	<1650	ug/Kg	1650
Phenol	<330	ug/Kg	330
Phenanthrene	<330	ug/Kg	330
Pyrene	<330	ug/Kg	330
1,2,4-Trichlorobenzene	<330	ug/Kg	330
2,4,5-Trichlorophenol	<330	ug/Kg	330
2,4,6-Trichlorophenol	<330	ug/Kg	330

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SAMPLE NO. : 7703160
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Phenol-d5	69.0	10- 94
2-Fluorobiphenyl	39.0	43-116
2,4,6 Tribromophenol	67.0	10-123
2-Fluorophenol	53.0	21-100
Terphenyl-d14	65.0	33-141
Nitrobenzene-d5	34.0	35-114

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WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 08-22-97
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LFO3-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --

Inorganic Chemistry-Total Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Arsenic .....:	3.9	mg/Kg	1.3	08-20-97	SW 7061	N. Munir
Total Barium .....:	270	mg/Kg	25.	08-21-97	SW 7080A	N. Munir
Total Cadmium .....:	<1.3	mg/Kg	1.3	08-22-97	SW 7130	N. Munir
Total Chromium .....:	26.	mg/Kg	2.5	08-22-97	SW 7190	N. Munir
Total Copper .....:	20.	mg/Kg	1.3	08-22-97	SW 7210	N. Munir
Total Lead .....:	26.	mg/Kg	4.0	08-20-97	SW 7420	N. Munir
Total Magnesium .....:	8900	mg/Kg	25.	77-03-16	SW 7450	N. Munir
Total Manganese .....:	430	mg/Kg	1.3	08-22-97	SW 7460	N. Munir
Total Mercury .....:	<0.50	mg/Kg	0.50	08-22-97	SW-7471	N. Munir
Total Selenium .....:	<1.3	mg/Kg	1.3	08-20-97	SW 7741A	N. Munir
Total Silver .....:	1.3	mg/Kg	1.3	08-22-97	SW 7760A	N. Munir

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SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-11-97
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LFO3-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --

Inorganic Non-Metals-Solids

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Total Phosphorus .....:	800	mg/Kg	2.5	08-25-97	SM-mod4500 P E	ATEL

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SAMPLE NO. : 7703161
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REPORT DATE: 09-12-97
REVIEWED BY:
PAGE : 1 OF 3

CLIENT SAMPLE ID : ORC-LFO3-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-22-97
ANALYSIS DATE .: 09-11-97

REMARKS -

Matrix spike and surrogate recoveries are outside of acceptance criteria, possibly due to matrix interference. LCS for Aldrin outside of acceptance criteria.

Method 8081 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<10.	ug/Kg	10.
4,4'-DDE	<10.	ug/Kg	10.
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<30.	ug/Kg	30.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<25.	ug/Kg	25.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<100.	ug/Kg	100.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<100.	ug/Kg	100.
PCB 1232	<100.	ug/Kg	100.
PCB 1242	<100.	ug/Kg	100.
PCB 1248	<100.	ug/Kg	100.

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SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
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PAGE : 2 OF 3

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
PCB 1254 ..... :	<100.	ug/Kg	100.
PCB 1260 ..... :	<100.	ug/Kg	100.

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SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 3 OF 3

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Tetrachloro-m-Xylene .....:	2.3	34-118
Decachlorobiphenyl .....:	3.5	56-147

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: mgm
PAGE : 1 OF 1

CLIENT SAMPLE ID : ORC-LF03-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-22-97
ANALYSIS DATE .: 08-28-97

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<0.04	mg/kg	0.04
2,4,5-TP (Silvex)	<0.04	mg/kg	0.04
2,4-D	<0.02	mg/kg	0.02
2,4-DB	<0.02	mg/kg	0.02
Dalapon	<0.20	mg/kg	0.20
Dicamba	<0.04	mg/kg	0.04
Dichlorprop	<0.04	mg/kg	0.04
Dinoseb	<0.01	mg/kg	0.01
MCPA	<2.0	mg/kg	2.0
MCPP	<2.0	mg/kg	2.0

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MANAGING DIRECTOR

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: mgm
PAGE : 1 OF 3

CLIENT SAMPLE ID : ORC-LFO3-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: ATEL

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: --
ANALYSIS DATE .: 08-26-97

8260 Volatile Organics by GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Acetone	0.32	mg/kg	0.10
Ally Chloride	<0.01	mg/kg	0.01
Benzene	<0.005	mg/kg	0.005
Bromochloromethane	<0.005	mg/kg	0.005
Bromodichloromethane	<0.005	mg/kg	0.005
Bromoform	<0.005	mg/kg	0.005
Bromomethane	<0.01	mg/kg	0.01
Carbon Disulfide	<0.005	mg/kg	0.005
Carbon Tetrachloride	<0.005	mg/kg	0.005
Chlorobenzene	<0.005	mg/kg	0.005
Chloroethane	<0.01	mg/kg	0.01
Chloroform	<0.005	mg/kg	0.005
Chloromethane	<0.01	mg/kg	0.01
Chloroprene	<0.02	mg/kg	0.02
1,2-Dibromo-3-chloropropane	<0.01	mg/kg	0.01
Dibromochloromethane	<0.005	mg/kg	0.005
1,2-Dibromoethane(EDB)	<0.01	mg/kg	0.01
Dibromomethane	<0.01	mg/kg	0.01
Trans-1,4-Dichloro-2-Butene	<0.10	mg/kg	0.10
Dichlorodifluoromethane	<0.01	mg/kg	0.01
1,1-Dichloroethane	<0.005	mg/kg	0.005
1,2 Dichloroethane	<0.005	mg/kg	0.005
1,1-Dichloroethene	<0.005	mg/kg	0.005
cis 1,2-Dichloroethene	<0.005	mg/kg	0.005
trans 1,2-Dichloroethene	<0.005	mg/kg	0.005
1,2-Dichloropropane	<0.005	mg/kg	0.005
1,3-Dichloropropane	<0.005	mg/kg	0.005
2,2-Dichloropropane	<0.005	mg/kg	0.005
1,1-Dichloropropene	<0.005	mg/kg	0.005
cis 1,3-Dichloropropene	<0.005	mg/kg	0.005

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY:
PAGE : 2 OF 3

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
trans 1,3-Dichloropropene	<0.005	mg/kg	0.005
Ethylbenzene	<0.005	mg/kg	0.005
Ethylmethacrylate	<0.01	mg/kg	0.01
2-Hexanone	<0.050	mg/kg	0.050
Methacrylonitrile	<0.10	mg/kg	0.10
Methyl ethyl ketone	<0.10	mg/kg	0.10
Methyl Iodide	<0.01	mg/kg	0.01
4-Methyl-2-Pentanone (MIBK)	<0.05	mg/kg	0.05
Methylene Chloride	0.015	mg/kg	0.005
Methyl Methacrylate	<0.01	mg/kg	0.01
Propionitrile	<0.25	mg/kg	0.25
Styrene	<0.005	mg/kg	0.005
1,1,1,2-Tetrachloroethane	<0.005	mg/kg	0.005
1,1,2,2-Tetrachloroethane	<0.005	mg/kg	0.005
Tetrachloroethene	<0.005	mg/kg	0.005
Toluene	<0.005	mg/kg	0.005
1,1,1-Trichloroethane	<0.005	mg/kg	0.005
1,1,2-Trichloroethane	<0.005	mg/kg	0.005
Trichloroethene	<0.005	mg/kg	0.005
Trichlorofluoromethane	<0.01	mg/kg	0.01
1,2,3-Trichloropropane	<0.005	mg/kg	0.005
Vinyl Acetate	<0.05	mg/kg	0.05
Vinyl chloride	<0.01	mg/kg	0.01
Xylenes, Total	<0.01	mg/kg	0.01
1,2,3-Trichlorobenzene	<0.005	mg/kg	0.005
1,2,4-Trichlorobenzene	<0.005	mg/kg	0.005
1,2,4-Trimethylbenzene	<0.005	mg/kg	0.005
1,3,5-Trimethylbenzene	<0.005	mg/kg	0.005
2-Chlorotoluene	<0.005	mg/kg	0.005
4-Chlorotoluene	<0.005	mg/kg	0.005
p-Isopropyl Toluene	<0.005	mg/kg	0.005
Hexachlorobutadiene	<0.005	mg/kg	0.005
Isopropylbenzene	<0.005	mg/kg	0.005
Naphthalene	<0.005	mg/kg	0.005
n-Butylbenzene	<0.005	mg/kg	0.005
n-Propylbenzene	<0.005	mg/kg	0.005
sec-Butylbenzene	<0.005	mg/kg	0.005
tert-Butylbenzene	<0.005	mg/kg	0.005

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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: MGM
PAGE : 3 OF 3

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Toluene-d8(Surr)	96.0	81-117
Dibromofluoromethane(Surr)	117.0	80-120
Bromofluorobenzene(BFB)(Surr)	90.0	74-121

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ANALYTICAL REPORT

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PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 1 OF 3

CLIENT SAMPLE ID : ORC-LF03-SS02
SAMPLE TYPE .....: soil
SAMPLED BY .....: M. Magee
SUBMITTED BY ....: M. Magee
SAMPLE SOURCE ...: Landfill Deserts Risk
ANALYST .....: NEL Laboratories

AUTHORIZED BY : M. Magee
CLIENT P.O. : --
SAMPLE DATE ...: 08-13-97
SUBMITTAL DATE : 08-13-97
EXTRACTION DATE: 08-26-97
ANALYSIS DATE .: 09-05-97

REMARKS -

One or more surrogates outside of acceptance criteria.

Semi-Volatile Compounds by 8270A

DATA TABLE

Parameter	Result	Unit	Detection Limit
Acenaphthene .....:	<330	ug/Kg	330
Acenaphthylene .....:	<330	ug/Kg	330
Anthracene .....:	<330	ug/Kg	330
Benzo(a)anthracene .....:	<330	ug/Kg	330
Benzo(b&k)fluoranthene .....:	<330	ug/Kg	330
Benzoic acid .....:	<1650	ug/Kg	1650
Benzo(ghi)perylene .....:	<330	ug/Kg	330
Benzo(a)pyrene .....:	<330	ug/Kg	330
Benzyl alcohol .....:	<660	ug/Kg	660
bis(2-Chloroethyl)ether .....:	<330	ug/Kg	330
bis(2-Chloroethoxy)methane .....:	<330	ug/Kg	330
bis(2-Ethylhexyl)phthalate .....:	<330	ug/Kg	330
Butyl benzyl phthalate .....:	<330	ug/Kg	330
4-Bromophenyl phenyl ether .....:	<330	ug/Kg	330
Carbazole .....:	<330	ug/Kg	330
4-Chloroanaline .....:	<660	ug/Kg	660
4-Chloro-3-methylphenol .....:	<660	ug/Kg	660
2-Chloronaphthalene .....:	<330	ug/Kg	330
2-Chlorophenol .....:	<330	ug/Kg	330
4-Chlorophenyl phenyl ether .....:	<330	ug/Kg	330
Chrysene .....:	<330	ug/Kg	330
Dibenzo(a,h)anthracene .....:	<330	ug/Kg	330
Dibenzofuran .....:	<330	ug/Kg	330
Di-n-butyl phthalate .....:	470	ug/Kg	330
1,2-Dichlorobenzene .....:	<330	ug/Kg	330
1,3-Dichlorobenzene .....:	<330	ug/Kg	330

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CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY:

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
1,4-Dichlorobenzene	<330	ug/Kg	330
2,4-Dichlorophenol	<330	ug/Kg	330
3,3'-Dichlorobenzidine	<660	ug/Kg	660
Diethyl Phthalate	<330	ug/Kg	330
2,4-Dimethylphenol	<330	ug/Kg	330
Dimethyl phthalate	<330	ug/Kg	330
4,6-Dinitro-2-methylphenol	<1650	ug/Kg	1650
2,4-Dinitrophenol	<1650	ug/Kg	1650
Di-n-octyl phthalate	<330	ug/Kg	330
Fluoranthene	<330	ug/Kg	330
Fluorene	<330	ug/Kg	330
Hexachlorobenzene	<330	ug/Kg	330
Hexachlorobutadiene	<330	ug/Kg	330
Hexachlorocyclopentadiene	<330	ug/Kg	330
Hexachloroethane	<330	ug/Kg	330
Indeno(1,2,3-cd)pyrene	<330	ug/Kg	330
Isophorone	<330	ug/Kg	330
2-Methylnaphthalene	<330	ug/Kg	330
2-Methylphenol	<330	ug/Kg	330
4-Methylphenol	<330	ug/Kg	330
Naphthalene	<330	ug/Kg	330
2-Nitroaniline	<1650	ug/Kg	1650
3-Nitroaniline	<1650	ug/Kg	1650
4-Nitroaniline	<660	ug/Kg	660
Nitrobenzene	<330	ug/Kg	330
2-Nitrophenol	<330	ug/Kg	330
4-Nitrophenol	<1650	ug/Kg	1650
N-Nitrosodi-n-propylamine	<330	ug/Kg	330
N-Nitrosodiethylamine	<330	ug/Kg	330
N-Nitrosodiphenylamine	<330	ug/Kg	330
Pentachlorophenol	<1650	ug/Kg	1650
Phenol	<330	ug/Kg	330
Phenanthrene	<330	ug/Kg	330
Pyrene	<330	ug/Kg	330
1,2,4-Trichlorobenzene	<330	ug/Kg	330
2,4,5-Trichlorophenol	<330	ug/Kg	330
2,4,6-Trichlorophenol	<330	ug/Kg	330

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El Paso, Texas 79922-1028
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ANALYTICAL REPORT

CLIENT MEVATEC CORPORATION
BLDG S-146 W
PO BOX 399
WSMR, NM 88002

SAMPLE NO. : 7703161
INVOICE NO.: 72170893
REPORT DATE: 09-12-97
REVIEWED BY: [illegible]
PAGE : 3 OF 3

DATA TABLE (Cont.)

Surrogate Information -

	Percent Recovery	Range
Phenol-d5	66.0	10- 94
2-Fluorobiphenyl	42.0	43-116
2,4,6 Tribromophenol	56.0	10-123
2-Fluorophenol	50.0	21-100
Terphenyl-d14	77.0	33-141
Nitrobenzene-d5	38.0	35-114

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APPENDIX B

Geophysical Report

SUNBELT GEOPHYSICS P.O. Box 36404 • Albuquerque, New Mexico 87176 • (505) 266-8717
505 341 1276

GEOPHYSICAL INVESTIGATION OF THE OSCURA RANGE CAMP LANDFILL WHITE SANDS MISSILE RANGE, NEW MEXICO

Prepared for:

MEVATEC Corporation
Building 126, 3rd Floor
P.O. Box 399
White Sands Missile Range, New Mexico

Sidney S. Brandwein
David A. Hyndman

May 1998

INTRODUCTION

Assessment and remedial design activities for an inactive landfill located near the Oscura Range Camp at White Sands Missile Range (WSMR) included a geophysical investigation designed to identify and delineate any buried waste. An initial geophysical investigation was conducted on 27 April, 1998, with a follow-on investigation on 6 May 1998. Labor, equipment, and technical expertise for the survey were provided by Sunbelt Geophysics of Albuquerque. Planning and oversight were provided by MEVATEC Corporation of WSMR.

Site Description

The Oscura Landfill site covers approximately 3 acres that rise gently to the west. It is surrounded by waste high vegetation and the bulk of the site has a mechanically compacted cap or cover over relic burial cells. The cap trends east-west. East-west earth cracks running several feet are observed in the cap.

The area is described by MEVATEC as having initially been used for surface storage of metallic debris from WSMR testing. These debris are thought to have been removed, and the site then used for burial of construction debris. The construction debris are reported to have been later excavated. A scattering of concrete and metallic debris is present on the ground surface.

SURVEY METHODOLOGY

The geophysical investigation proceeded in three steps; establishing a control grid, conducting a primary ground conductivity survey, and performing a follow-on metal detection survey.

Spatial Control Grid

A spatial control grid consisting of wooden lathe on 50 ft centers was established by MEVATEC. This basic grid was enhanced for geophysical surveying by placing plastic stemmed pin-flags along several east-west lines, generating parallel north-south traverses separated by 12.5 ft. The original grid was expanded 100 ft to the south for follow-on investigations.

Conductivity Survey

The primary geophysical survey was conducted utilizing a Geonics EM-31 ground conductivity meter. This instrument consists of a transmitting antenna (coil), a receiving antenna, associated electronics and a data logger. The transmitting coil generates a time varying magnetic field which penetrates the soil. This field induces eddy currents in the subsurface. The strength and phase of these currents are detected by the receiving antenna, and yield two

measurements, the soil conductivity, in milliSiemen/meter (mS/m), and an In-Phase response, measured in parts per thousand (ppt).

Ground conductivity data reveal lateral changes in electrical properties to approximately 18 ft deep. In the absence of buried metal, these lateral changes are primarily generated by contrasts in water content and ion concentrations, and secondarily by soil mineralogy.

Conductivity measurements are distorted within 20 ft of significant quantities of metal, either buried or on the surface. The metal provides a preferred conduction path, altering the measured signal. Large and abrupt changes in conductivity can be assumed to be from metal.

The In-Phase response is primarily an instrument response, and is intentionally tuned to approximately zero (0) at the start of a survey. The In-Phase is very sensitive to nearby metal objects, and provides a useful quality control indicator for the measured soil conductivity. A well tuned instrument will have an In-Phase response on the order of one (1) part per thousand (ppt), plus or minus. When nearby metal interferes with conductivity measurements, the In-Phase response is driven to several ppt, either positive or negative. Conductivity measurements are suspect when the In-Phase response has been driven beyond approximately 1 ppt.

The ability to detect buried metal, or lacking metal, more subtle conductivity contrasts (differential compaction, non-metallic waste), make the EM-31 a powerful tool for landfill investigations.

EM-31 data were acquired approximately every 2 ft along the north-south traverses. The data were reduced using the DAT 31 program (Geonics Ltd.) and the Geosoft Mapping and Processing System (Geosoft Inc.) was used for processing and data presentation.

Metal Detection Survey

The results from the EM-31 survey prompted a follow-on survey utilizing a Geonics EM-61 high precision metal locator. The EM-61 is a time domain electromagnetic instrument specifically designed for mapping buried metal to a depth of approximately 10 ft. It consists of a transmitter coil, two receiver coils, associated electronics and a data logger. The transmitting coil generates a magnetic pulse which penetrates the soil. This pulse induces eddy currents in the subsurface. These currents dissipate rapidly in soil, but persist in buried metal, which possess a very high conductivity. The long-lived eddy current from metal induce a signal in the receiver coils, which is integrated over the late portion of the time gate between pulses. This signal, in millivolts (mV), is proportional to the quantity of buried metal. The use of two coils allows depth estimates to be made, and assists in discriminating between surface and buried metal.

EM-61 data were acquired every .65 ft along north-south traverses separated by 6.25 ft. The EM-61 data were reduced using the DAT 61 program (Geonics Ltd.) and the Geosoft Mapping and Processing System (Geosoft Inc.) was used for processing and data presentation.

The investigation area, with portions covered by the EM-31 and the EM-61, are depicted in Figure 1.

RESULTS

The results of the EM-31 survey are shown in Figure 2, which provides both the In-Phase (bottom) response and the conductivity (top) data.

The In-Phase data reveal a large concentration of buried metal (pink, bottom of Figure 2) extending 200 ft along an east-west axis in the approximate center of the survey area. A few other occurrences of metal are observed as In-Phase lows (blue, Figure 2.)

The soil conductivity data reveal two areas of increased conductivity (red to pink, top of Figure 2). These conductivity anomalies are consistent with buried construction debris or just poorly compacted soil, either of which increases the soil porosity and associated soil moisture.

The area containing buried metal displays a decreased soil conductivity. This is likely due to the presence of metal depressing the conductivity measurements where the In-Phase is greater than 1 ppt.

There appear to be linear conductivity trends coincident with the earth cracks seen at the surface. These trends continue well beyond the visible cracks, suggesting a general area of collapsing soil.

The results of the follow-on EM-61 survey are shown in Figure 3, which is a repeat of Figure 2 with the EM-61 data superposed on the EM-31 In-Phase response. The EM-61 data verify the presence of the buried metal detected by the EM-31, reveal the presence of a scattered metal to the south, and show virtually no buried metal to the north.

The EM-61 results predict that the large deposit of metal is buried at a depth of 8 - 10 ft. The scattered features to the south of the major deposit are generally contained in the top 2 ft of soil, although one feature, marked on Figure 3, is buried at least 3 ft deep.

INTERPRETATION

The geophysical data are consistent with two interpretations; except for the one major deposit of metal, the ground under the compacted surface is either clean fill or metal-free construction debris. Construction debris this clean is rare, supporting the contention that past burials have been excavated.

There appears to have been one final burial of scrap metal considered innocuous at the time. The area to the south of the buried metal is interpreted to be a decline or ramp used by earth moving equipment for access to the excavation. Scattered debris in this ramp was probably distributed by the tracks or wheels of the equipment used during final closure of the landfill.

This geophysical interpretation is depicted in Figure 4.

CONCLUSIONS

The geophysical investigation of the landfill has revealed an area approximately 150 ft by 300 ft effected by past excavations. There is one major deposit of buried metal located along the southern edge of the compacted cover. This metal is approximately 10 ft deep.

A ramp or decline enters the excavation from the south. There is a minor amount of metallic debris in this ramp. The remainder of the site contains borrow material or very clean, well controlled construction debris. The uncertainty in the character of fill can be determined by selective soil borings or penetrometer tests.

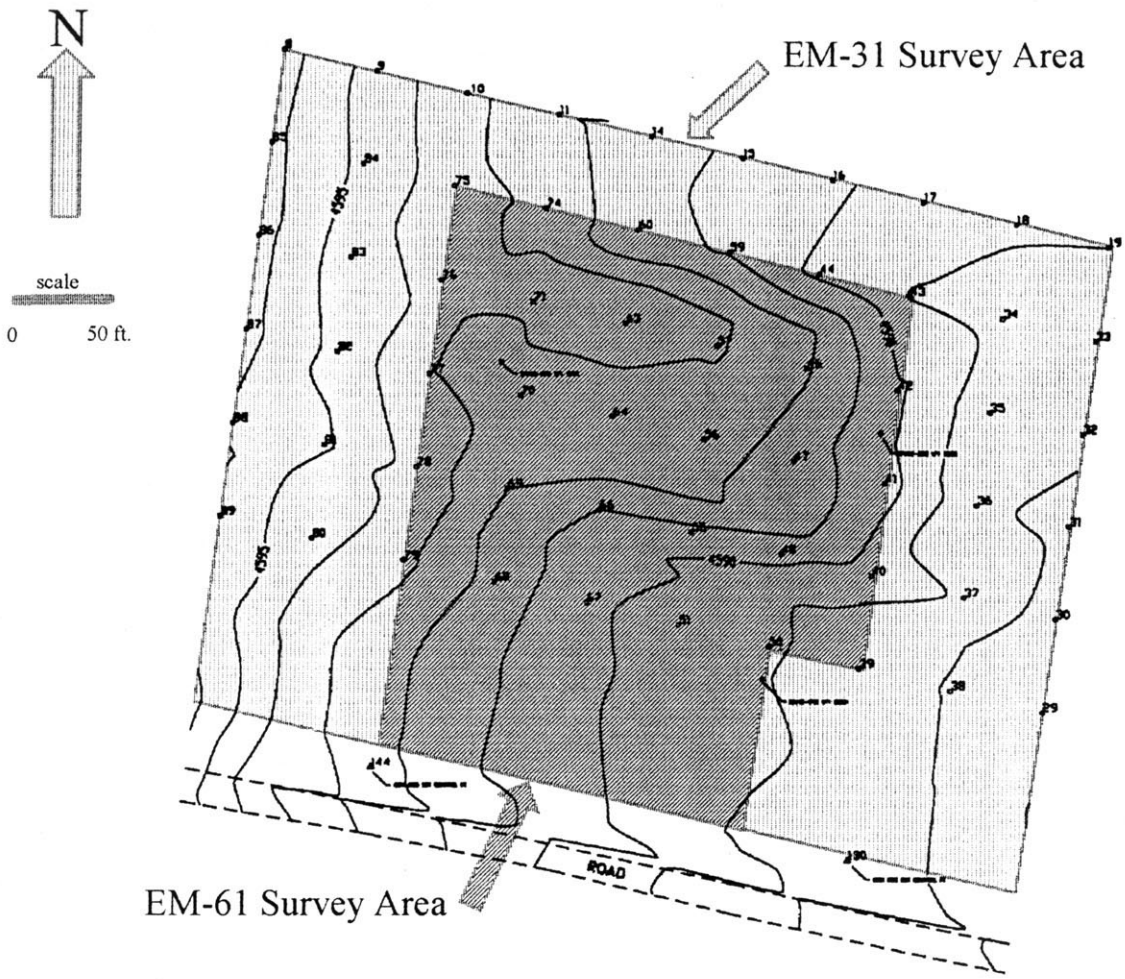

Figure 1. Oscura Range Camp Landfill
Geophysical Survey Area

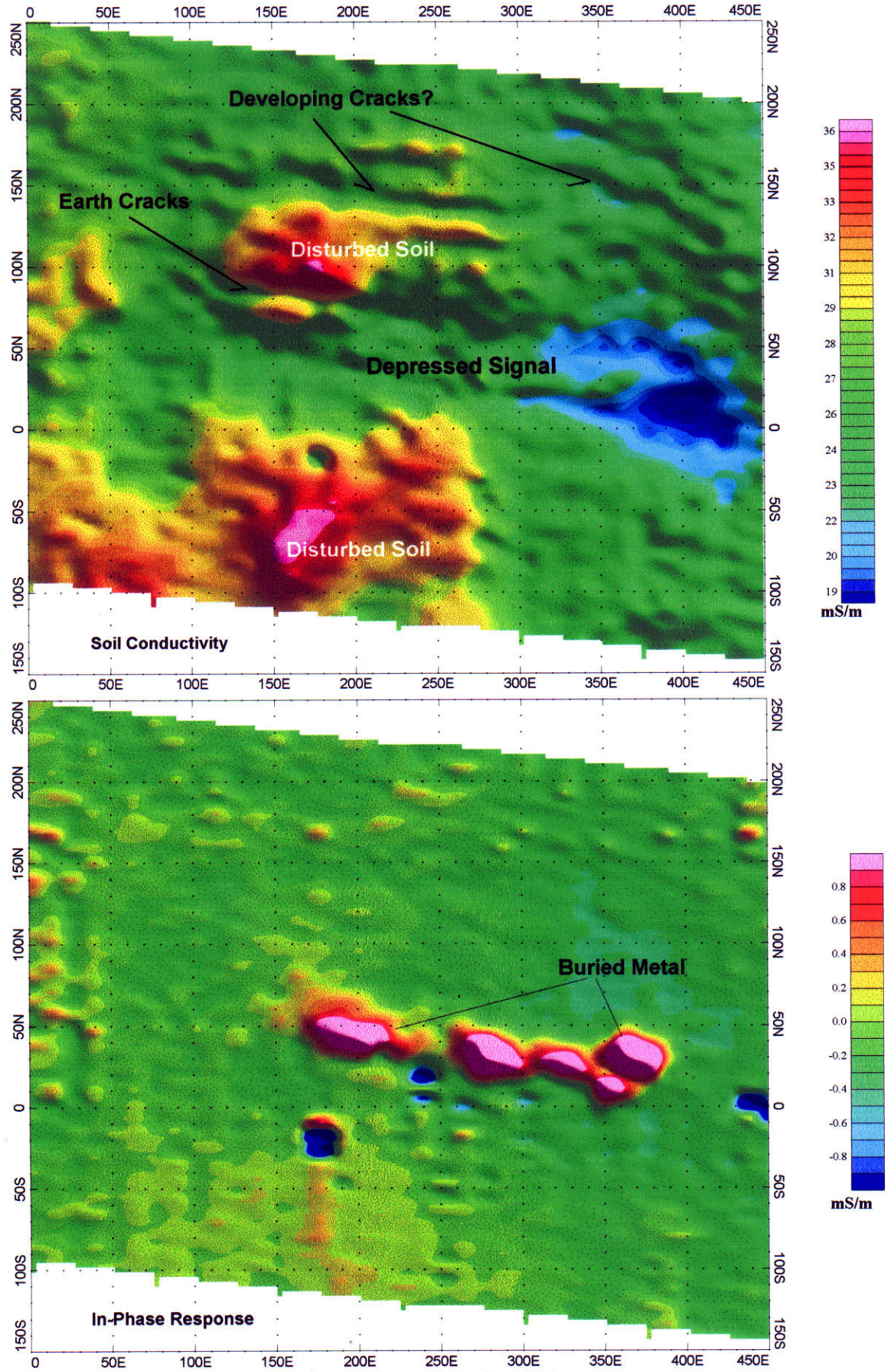

Figure 2. Oscura Range Camp Landfill

EM-31 Response

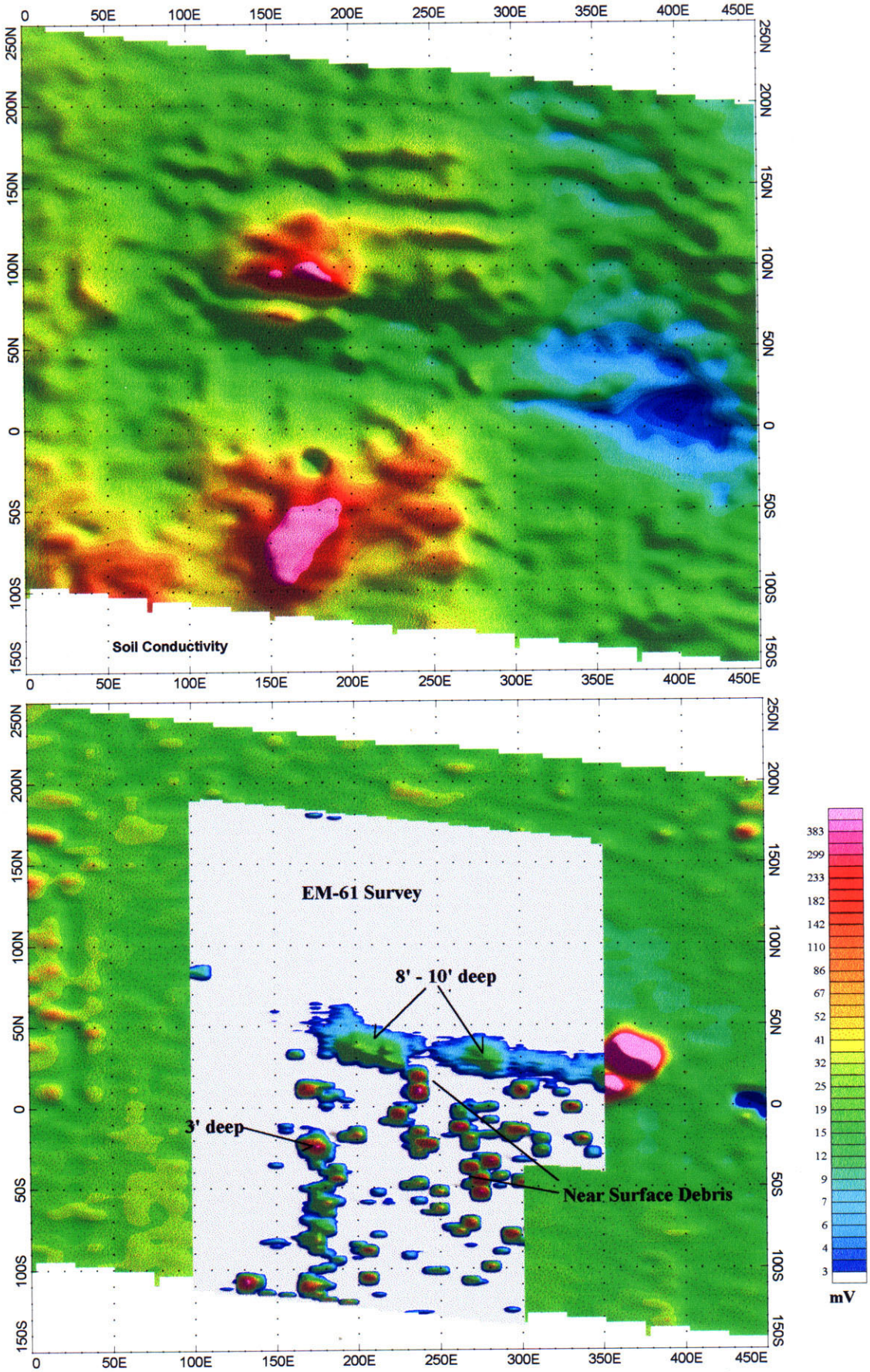

Figure 3. Oscura Range Camp Landfill
EM-61 Response Superposed on EM-31 Data

50 0 50
(feet)

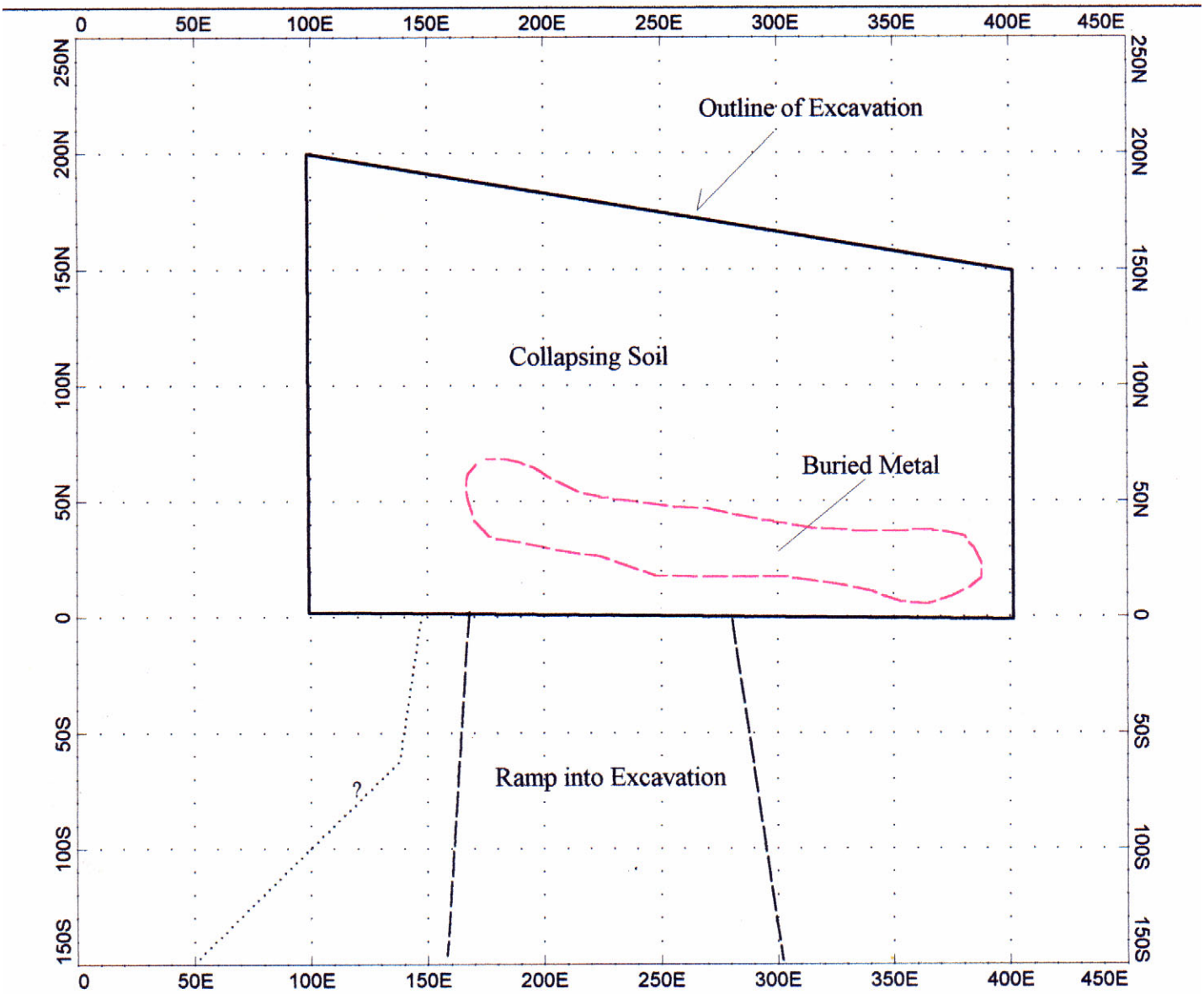

Figure 4. Oscura Range Camp Landfill Geophysical Interpretation

APPENDIX C

Analytical Results from the 2002 RFI

LAUCKS TESTING LABORATORIES
SAMPLE DATA PACKAGE

MEVATEC CORPORATION

LABORATORY NO.: 0203100, 0203135

SDG NO.: OSC01

APRIL 12, 2002

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

To: MEVATEC Corporation
Project No.: 900FF
Project Name: Oscura Range Landfill
Laboratory No.: 0203100, 0203135
SDG No.: OSC01
Date of Report: April 12, 2002

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Laucks Sample Identification	Testing Analytical Request
0159-SB01- (15.0)	0203100-01	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB03- (15.0)	0203100-02	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB05- (15.0)	0203100-03	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB05- (20.0)	0203100-04	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB07- (15.0)	0203100-05	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB08- (15.0)	0203100-06	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB08- (20.0)	0203100-07	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-030502-TB2	0203100-08	VOA/GRO
0159-ORC-RINSATE	0203100-09	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-030502-TB1	0203100-10	VOA/GRO
0159-SB13- (7.0)	0203135-01	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB09- (7.0)	0203135-02	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB12- (7.0)	0203135-03	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB06- (15.0)	0203135-04	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB04- (15.0)	0203135-05	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB02- (15.0)	0203135-06	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP

0159-SB02- (20.0)	0203135-07	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB10- (7.0)	0203135-08	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB11- (7.0)	0203135-09	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB14- (7.0)	0203135-10	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB14- (15.0)	0203135-11	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB14- (20.0)	0203135-12	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB15- (7.0)	0203135-13	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB15- (15.0)	0203135-14	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-SB15- (20.0)	0203135-15	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/MET/PERC/TP
0159-030602-TB3	0203135-16	VOA/GRO
0159-030602-TB2	0203135-17	VOA/GRO
0159-030602-TB1	0203135-18	VOA/GRO

Analytical Request Key:

VOA =	Volatile Organics (8260B)
ABN =	Semi-Volatile Organics (8270D)
ORD =	Ordnance (8330)
PEST =	Pesticides/PCBs (8081B/8082A)
HERB =	Herbicides (8151A)
GRO =	Gasoline Range Organics (Mod. 8015B)
DRO =	Diesel Range Organics (Mod. 8015B)
MET =	RCRA Metals + Cu, Mg, Mn (6010B/7470A)
PERC =	Perchlorate (314.0)
TP =	Total Phosphorus (365.2)

Sample Receipt Comments:

The following discrepancies were noted upon recipt of the samples:

1. One of two volatiles bottles submitted for 0159-030602-TB3 contained air bubbles of less than ¼ inch in size.

2. Several temperature blanks received were measured at temperatures below the control limits of 4°C ± 2°C.

Sample Identification on Forms:

When completing forms created through the CLP software, every attempt is made to use both your sample IDs as well as the laboratory sample IDs. The forms have varied

default sizes to their sample identification fields, and are not amenable to alteration or editing. When it is not possible to use your complete sample ID because of field length limitations, Laucks will usually do one of two things: 1) use as much of your ID as will fit, beginning from the RIGHT hand side of the sample ID number; or 2) select some sub-set of your sample identifier if it is clearly a discrete number. In addition, all forms will contain our sample IDs, which can be cross-referenced from the table above.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

All GC/MS Fractions:

The computerized printout for sample analysis may tabulate values for target analytes that are not reported on the relevant Form I. In that case, we have manually searched the mass spectral data and have eliminated the compound(s) as reportable based on this search.

Semi-Volatile Fraction:

All soil/sediment extracts are cleaned using Gel Permeation Chromatography (GPC), as per SW-846 3640A.

SPECIFIC REMARKS ON ORGANIC ANALYSES:

Holding Time Compliance:

Following the Contract Laboratory Program (CLP) model, Laucks calculates holding time compliance for organic determinations based on the first injection and/or analysis of an extract or sample. Subsequent analyses (for instance, for the purpose of dilution) are not tabulated.

Volatile Organic Compounds:

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

Semi-Volatile Organic Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

Ordnance Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

Pesticides/PCBs:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

Herbicides:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time. The soil samples were re-extracted outside of holding time. See detailed comment below.

TPH Gasoline Fraction:

The holding time for analysis is 14 days in water and soil calculated from date of collection. All samples were extracted and analyzed within holding time.

TPH Diesel Fraction:

The holding time to extraction, which is calculated from the date of collection, is 7 days for water samples and 14 days for soil samples. In either case, the holding time from collection to analysis is 40 days. All samples were extracted and analyzed within holding time.

Volatile Fraction:

Initial Calibration Standards:
The concentrations of the standards used for the initial calibration for the low-level soils were 3, 10, 50, 100, and 200 µg/L for all analytes with the exception of the meta- and para- xylene isomeric pair and the ketones which were 6, 20, 100, 200, and 400 µg/L and 10, 20, 50, 100, and 200 µg/L respectively.

Continuing Calibration Standard:
Analysis of the continuing calibration standard performed on 3/12/02 yielded a percent difference value for acetone and 2-butanone which exceeded 40 percent. Analysis of the continuing calibration standard performed on 3/13/02 yielded a percent difference value for acetone, 2-butanone and 2-hexanone which exceeded 40 percent. Analysis of the continuing calibration standard performed on 3/14/02 yielded a percent difference value for acetone, 2-butanone and 2-hexanone which exceeded 40 percent. Although there is no maximum criterion for these analytes, the laboratory generally uses 40 percent as an internal guideline. Since the average %D was less than 20 percent, and the SPCC and CCC compounds were in control, the standards are compliant with the method and no further action was required.

Method Blank Analysis:
Analyses of all the method blanks resulted in the detection of methylene chloride. The presence of methylene chloride in the blanks may be due to laboratory contamination

since it is a common laboratory solvent. All sample results reported for these analytes have been "B" flagged to denote its presence in the associated method blank analysis.

Internal Standards:
Analysis of sample 0159-SB03-(15.0) yielded a suppressed internal standard response for fluorobenzene. This sample was reanalyzed twice but neither anayses purged. One of these anaylses is submitted in the bench sheets section of this data package to verify matrix interference.

Internal standard response for fluorobenzene, chlorobenzene-d5 and 1,4-dichlorobenzene in sample 0159-SB12-(7.0)MSD fell below the lower control limit due to matrix interference. A previous analysis of the same sample did not purge. Since the surrogate recoveries and matrix spike analyte recoveries were in control no further action was taken.

Matrix Spike/Matrix Spike Duplicate Analyses:
MS/MSD analyses were performed on sample 0159-SB12-(7.0). All surrogate recoveries and RPD values were in control.

The client also requested MS/MSD analyses on sample 0159-SB08-(15.0) but both the MS/MSD and 2 of the straight samples did not purge, so time did not allow for further analyses.

Sample Analyses:
Several samples were analyzed with smaller aliquots due to poor purge efficiency.

Sample Identifications:
The "0159-" has been removed from all client identifications due to software constraints.

Semi-Volatile Fraction:

Initial Calibration:
A minimum of five standards is required for the initial calibration analyses in accordance with SW 846. Six concentrations of standards were analyzed for the initial calibration: 5, 10, 25, 40, 60, and 80 ng/µL, except for benzoic acid where the 5 ng/µL level was omitted.

Continuing Calibration Analyses:
Analyses of the continuing calibration standards performed on 3/18/02 and 3/19/02 yielded %D values for 2,4-dinitrophenol that exceeded 40%. The continuing calibration analysis on 3/19/02 also yielded a %D value for 4,6-dinitro-2-methylphenol that exceeded 40%. Although there is no upper control limit for these analytes, the laboratory generally uses 40% as an internal guideline. Because these analytes met the minimum response factor required by the method and none of the analytes were detected in any of the samples, no further action was taken.

Quality Control Analysis:
Analysis of the method blank associated with sample extracts 0159-SB08-(15.0)MS and 0159-SB08-(15.0)MSD yielded low surrogate recoveries, resulting in the sample batch being re-extracted. Due to an extraction error, however, the matrix spike/matrix spike

duplicate (MS/MSD) re-extracts were not spiked. Therefore, the MS/MSD recoveries from sample 0159-SB08-(15.0) were processed from the initial extraction batch. Only the MS/MSD Report has been submitted. The associated Forms I for the MS/MSD are located in the Bench Sheets section of this Data Package.

Ordnance Fraction:

Samples were analyzed for ordnance compounds in accordance with SW846 Method 8330 using a UV detector. A C18 (octadecyl) analytical column was used as the quantitation column. The CN (cyano) column was used for confirmation. Due to the co-elution of the surrogate, 1,2-dinitrobenzene and the target analyte, 1,3,5-trinitrobenzene, all sample aliquots (with the exception of the rinse blank) were analyzed on both the primary and confirmation columns. (At the time of the rinse blank analysis, co-elution was non-existent on the primary column.)

Continuing Calibration Verification (CCV) Standard Analyses:
Analysis of several calibration standards yielded %D values for one or more analytes that exceeded the control limit on the confirmation column (CN). Because the average %D value was in control, the standards were compliant in accordance with SW 846. All quantitation was performed using the primary column (C18).

Sample Prep:
All soil samples were air-dried prior to extraction in accordance with Method 8330.

Quality Control Analyses:
Analysis of the blank spike S031202HORSME1 yielded recovery values for 1,3,5-trinitrobenzene, 1,3-dinitrobenzene, 2,4,6-trinitrotoluene, and 2,4-dinitrotoluene that slightly exceeded the upper control limits. Analysis of the blank spike S031202HORSME2 yielded recovery values for 1,3-dinitrobenzene and 1,3,5-trinitrobenzene that slightly exceeded the upper control limits. Because the recovery values exceeded the control limits due to increased response, and no target analytes were detected in the associated sample extracts, no further action was taken.

MS/MSD analyses were performed on sample 0159-SB08-(15.0). The recoveries of 1,3-dinitrobenzene in both the MS and MSD analyses slightly exceeded the upper control limit. (1,3-Dinitrobenzene recovered at 112 percent and 110 percent. respectively, and the upper control limit is 108 percent.) All other spiking analyte recoveries were in control.

Pesticide/PCB Fraction:

Continuing Calibration Verification (CCV) Standard Analyses:
Analyses of Aroclor CCVs D326212.d, D326224.d, and D401230.d yielded %D values for Aroclor 1016 which exceeded the control limit on the DB608 column due to increased response. However, because all Aroclor recoveries were within the control limits on the DB5 column, no further action was taken.

Analyses of several pesticide CCVs yielded one or more target analytes that exceeded the control limit. However, because the average %D was in control for these CCVs, no further action was taken.

Quality Control Analyses:
MS/MSD analyses were not performed on the water sample because it was labeled as a rinsate. All other QC recoveries were within the control limits.

Herbicide Fraction:

Continuing Calibration Verification Standard Analyses:
The analyses of several continuing calibration verification standards (CCVs) each yielded a %D for one compound that exceeded the 15 percent control limit. However, since the %D when averaged across all compounds was less than 15 percent in each CCV the standards are compliant with the method and no further action was required.

Surrogate Recoveries:
Analyses of all of the soil sample extracts yielded recovery values for the surrogate 2,4-DCPAA that fell below the control limit with the exception of sample extracts 0159SB01(15.0), 0159SB14(7.0) and 0159SB14(15.0) possibly due to matrix interference. Corrective action in the form of re-extraction and reanalyses was performed. Analyses of the re-extracted samples yielded low surrogate recovery values for all but four sample extracts verifying the matrix interference.

Holding Time Compliance:
Due to low surrogate recoveries the soil sample were re-extracted outside of holding time.

Sample Identification:
Due to software constraints, sample names were shortened by removing all hyphens. For example, sample 0159-SB01- (15.0) was truncated to 0159SB01(15.0). All sample identifications were shortened in this manner.

Quality Control Analyses:
In all sets of MS/MSD analyses, several compounds were not recovered due to matrix interference. Also, several percent recovery values and RPDs were outside of control limits. However, because all percent recovery values were within the control limits for each blank spike, no further action was required.

Gasoline Range Organic Fraction:

Modified SW8015 was used to quantitate the samples for gasoline. Gasoline range responses were determined by summing the responses of all components, both resolved and unresolved, between C_6 and C_{12} integrated to the baseline. Quantitation for gasoline was based on the average calibration factor.

Sample Identifications:
The "0159" and both hyphens were removed from all client identifications due to software constraints.

All quality control parameters were met.

Diesel Range Organic Fraction:

Modified method 8015 was used to quantitate the samples for diesel and oil. Diesel range responses were determined by summing the responses of all components, resolved and unresolved, between C_{12} and C_{24} integrated to a horizontal baseline. Oil range responses were determined by summing the responses of all components, resolved and unresolved, between C_{24} and C_{40} integrated to a horizontal baseline. Quantitation was based on a linear regression.

Sample Identifications:
The "0159" and first hyphen were removed from all client identifications due to software constraints.

Continuing Calibration Verification (CCV):
The analyses of several continuing calibration verification standards (CCVs) each yielded a %D for one or more compounds which exceeded the control limits. Because the %Ds were elevated due to increased response, and no diesel or residual range hydrocarbons were detected in the associated samples, no further action was required.

Sample Analyses:
The original extract analysis of sample SB05-(20.0) yielded a low surrogate recovery for 2-fluorobiphenyl. Corrective action was taken in the form of re-extraction and reanalysis within the holding time. Analysis of the re-extract both surrogates in control. Data from initial analysis was not submitted with this data package.

Quality Control Analyses:
The reagent blank extracted 3/19/02 contained residual range hydrocarbons slightly greater than one-half, but less than the reporting limit. Since no residual range hydrocarbons were detected in the associated samples, no action was taken.

All other quality control parameters were met.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

The preparation blank for metals in soil is calculated to mg/kg by assuming a sample weight of 1.00g/100mL. Total solids of 100% are also assumed.

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

The true value of the calcium, potassium, magnesium, and sodium initial calibration verification (ICV) and LCSW solutions is 500,000 ug/L. This value is larger than the available field size on Forms 2A and 7. Therefore, a "true value" of 50,000 µg/L (1/10 the actual true value) has been entered and results for these elements have similarly been entered at 1/10 the actual value.

Mercury:

Laucks purchases a 1000 mg/L Hg stock solution from Inorganic Ventures. The 1.0 mg/L working standard is made by diluting 100 µL to 100 mL with 2% HNO_3. The calibration curve is made by placing 0, 20, 50, 100, 500 and 1000 µL of the working standard in BOD bottles and diluting up to 100 mL. The standard curve is equivalent to 0, 0.2, 0.5, 1.0, 5.0 and 10.0 µg/L.

The blank for mercury in soil is calculated to mg/kg by assuming a sample weight of 0.50g/100mL. Total solids of 100% are also assumed.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

Analyte	Holding Time	Violations
Perchlorate	28 days	None
Total Phosphorus	28 days	None

ICP Metals:

In the continuing calibration verification (CCV) standard analyzed on 04/02/02 at 19:40, the recovery of selenium was high and fell outside the control limits of 90-110%. This represents an increase in the sensitivity of the instrument. No selenium was found in any of the associated samples. No corrective action was required.

The recovery of manganese in the matrix spike of sample 0159-SB08-(15.0) fell outside the established control limits of 75-125%. (This matrix spike is associated with the first

seven soil samples in the SDG.) The concentration of this element in the unspiked sample was greater than four times the amount spiked, so the control limits do not apply for this manganese recovery. No corrective action was required.

The recovery of chromium in the matrix spike of sample 0159-SB08-(15.0) was low and fell outside the established control limits of 75-125%. (This matrix spike is associated with the first seven soil samples in the SDG.) A post-digestion spike was performed, and the recovery of chromium fell within the control limits of 75-125%. No further corrective action was required. All relevant data have been flagged with an "N" on the appropriate Forms I and V.

The recovery of manganese in the matrix spike of sample 0159-SB12-(7.0) fell outside the established control limits of 75-125%. (This matrix spike is associated with the last 15 soil samples in the SDG.) The concentration of this element in the unspiked sample was greater than four times the amount spiked, so the control limits do not apply for this manganese recovery. No corrective action was required.

The recoveries of barium and selenium in the matrix spike of sample 0159-SB12-(7.0) were low and fell outside the established control limits of 75-125%. (This matrix spike is associated with the last 15 soil samples in the SDG.) A post-digestion spike was performed, and the recoveries of barium and selenium fell within the control limits of 75-125%. No further corrective action was required. All relevant data have been flagged with an "N" on the appropriate Forms I and V.

The result for barium in the laboratory duplicate of sample 0159-SB12-(7.0) did not agree with the original determinations to within 20%. (This duplicate is associated with the last 15 soil samples in the SDG.) No further corrective action was required. All relevant data have been flagged with an "*" on the appropriate Forms I and VI.

In the laboratory control sample (LCS) associated with the water sample, recoveries of all analytes were low and fell outside the control limits of 80-120%. Recoveries of all elements in the water matrix spike were within control limits of 75-125%. No corrective action was required.

In the soil LCS associated with the last 15 soils in the SDG, the recovery of silver was low and fell outside control limits. The recovery of silver in the associated matrix spike was within control limits. No corrective action was required.

The result for magnesium in the serial dilution of sample 0159-SB12-(7.0) did not agree with the original determination to within 10%. (This serial dilution is associated with the last 15 soil samples in the SDG.) No further corrective action was required. All relevant data have been flagged with an "E" on the appropriate Forms I and IX.

Mercury:

No comments.

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Conventionals:

In the analytical sequence for perchlorate acquired on 03/18/02, the recovery of perchlorate in continuing calibration verification (CCV) standard number three fell outside the control limits of 85-115%. The samples associated with this CCV standard were re-analyzed on 03/25/02, and are reported from that day's analysis. The water matrix spike duplicate was also associated with this CCV, and results for this matrix spike were within control limits, and were reported. No further corrective action was required.

In the analytical sequence for perchlorate acquired on 03/25/02, the recovery of perchlorate in continuing calibration verification (CCV) standard number two fell outside the control limits of 85-115%. The samples associated with this CCV standard were being analyzed for the second time, were free of perchlorate in both analyses, and were reported from the analyses on 03/25/02. No further corrective action was taken.

The recoveries of total phosphorus in the matrix spike and matrix spike duplicate of soil sample 0159-SB08-(15.0) were high and fell outside the control limits of 50-150. However, the concentration of this phosphorus in the unspiked sample was greater than four times the amount spiked, so the control limits do not apply. No corrective action was required.

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ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U The analyte of interest was not detected to the limit of detection indicated.

SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix-specific factor.

DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample.

AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B When used in relation to organics fractions, the "B"flag indicates that the analyte of interest was detected in the method blank associated with the sample. as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

D The value reported derives from analysis of a diluted sample of the sample extract

P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally. we report the higher value.

C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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INORGANIC ANALYSES:

B The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA)

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50 % of spike absorbance.

* Duplicate analysis not within control limits.

+ Correlation coefficient for the MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract required Detection Limit.

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RELEASE OF DATA

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

Anh Ho	Harry Romberg
Project Manager	Quality Assurance Officer
4/12/02	4-12-02
(DATE)	(DATE)

HOW TO CONTACT US:

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

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ATTACHMENT A

Chain-of-Custody Copies

02-03-100
OSC01

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 17

PROJECT NO.: 900FF
PROJECT NAME: OSCURA RANGE LANDFILL
SAMPLER'S SIGNATURE:

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonium Perchlorate	Total Metals	Phosphorous	Mercury	VOC's	TPH	SVOC's	Explosives	Herbicides	Pesticides	PCB's	REMARKS
1	3-4-02	1550	0159-SB01 (15.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	3-4-02	1702	0159-SB03 (15.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	3-5-02	1010	0159-SB05 (15.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	3-5-02	1018	0159-SB05 (20.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	3-5-02	1124	0159-SB07 (15.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	3-5-02	1214	0159-SB08 (15.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	3-5-02	1214	0159-SB08 (15.0) QC	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	3-5-02	1223	0159-SB08 (20.0)	Soil		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	3-5-02	1411	0159-030502-TB2	~~Soil~~ water		2					✓							
	3-5-02	1411	0159-030502-TMP2	water		1												

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Brad Davis	SAMPLES RECEIVED		(PRINTED NAME) Carter Garcia	(PRINTED NAME)	(PRINTED NAME) Jennifer Penner
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
VIA: FED-EX.	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 3-6-02 @ 3C
	GOOD CONDITION/CHILLED	1.9°C	SPECIAL INSTRUCTIONS / COMMENTS: See Atated Analyte List		
	CONFORMS TO RECORD				

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02-03-100
OSC01

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 900FF
PROJECT NAME: OSCURA RANGE LANDFILL
SAMPLER'S SIGNATURE:

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Perchlorate	Total Metals	Mercury	Phosphorous	VOCs	SVOCs	THP	Explosives	Herbicides	Pesticides	PCBs	REMARKS
9	3-5-02	1300	0159-ORC-RINSATE	water		21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	3-5-02	1300	0159-030502-TB1	water		2					✓							
	3-5-02	1300	0159-030502-TMP1	water		1												

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: BRAD DAVID	SAMPLES RECEIVED		(PRINTED NAME) LABTEC GARCIA	(PRINTED NAME)	(PRINTED NAME) Jennifer Penner
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 3-6-02 8:30
VIA: FED-EX	GOOD CONDITION/CHILLED	1.3°C	SPECIAL INSTRUCTIONS / COMMENTS: See attached Analyte List		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-03-100

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers 1 of 2

Project: Mountech

Date samples were received at the laboratory: 3/6/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 3/6/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>>> (YES) NO
   If YES, record carrier name and airbill number: FedEx 8284 2521 4825
2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   How many and where: 2 1 front, 1 back
   Seal date: 3/5/02 Seal name: Illegable
3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>>> (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>>> YES (NO)
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> (YES) NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>>> (YES) NO
8. Was project identifiable from custody papers? If (YES) enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: cube (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 3/6/02

B. LOG-IN PHASE: Date samples were logged-in: 3/6/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>> (YES) NO

Cooler 1 of 2

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>YES NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>YES NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>>>YES NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>>> YES NO

    If YES, give details below

21. Who was called / faxed? _____

    By whom?_____(date)_____

DISCREPANCIES:

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Cooler 1 of 2

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-03-100
Assigned SDG Number: OSC21

Number of Cooler

Temperature		pH of Bottle Types								
1.3°C		VOA	CONV	NUTR	ORG	MET				
9		3) N/C	1) 7	1) 1	12) 7	1) 1				
10		2) ↓	—	—	—	—				

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-03100

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers 2 of 2

Project: Mevatech

Date samples were received at the laboratory: 3/6/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 3/6/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.)>>>>>>>>>>>>>>>>>>>>> (YES) NO
   If YES, record carrier name and airbill number: FedEx 8284 2521 4814
2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   How many and where: 2- 1 front, 1 back
   Seal date: 3/5/02 Seal name: Hagabell
3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>> (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>> YES (NO)
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> (YES) NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>> (YES) NO
8. Was project identifiable from custody papers? If (YES) enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: cube (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 3/6/02

B. LOG IN PHASE: Date samples were logged-in: 3/6/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>> YES (NO)
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>> (YES) NO

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>>>YES NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>>>>YES NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>>YES NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>>>>YES NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>>>> YES NO

    If YES, give details below
21. Who was called / faxed? _____

    By whom?_____(date)_____

DISCREPANCIES:

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Cooler 2 of 2

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-03-100
Assigned SDG Number: OSC#1

Number of Cooler

Temperature		pH of Bottle Types								
1.9°C		2oz jar	4oz jar	VOA						
1		1) N/C	4) N/C	—						
2		1)	4)	—						
3		1)	4)	—						
4		1)	4)	—						
5		1)	4)	—						
6		2)	8)	—						
7		3)	4)	—						
8		—	—	2) N/C						

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

Sample ID Cross-Reference
Laucks Testing Laboratories

Sample ID	Client ID/Matrix	Collected	Received
0203100-01	0159-SB01-(15.0)	S 03/04/02 15:50	03/06/02 08:30
0203100-02	0159-SB03-(15.0)	S 03/04/02 17:02	03/06/02 08:30
0203100-03	0159-SB05-(15.0)	S 03/05/02 10:10	03/06/02 08:30
0203100-04	0159-SB05-(20.0)	S 03/05/02 10:18	03/06/02 08:30
0203100-05	0159-SB07-(15.0)	S 03/05/02 11:24	03/06/02 08:30
0203100-06	0159-SB08-(15.0)	S 03/05/02 12:14	03/06/02 08:30
0203100-07	0159-SB08-(20.0)	S 03/05/02 12:23	03/06/02 08:30
0203100-08	0159-030502-TB2	W 03/05/02 14:11	03/06/02 08:30
0203100-09	0159-ORC-RINSATE	W 03/05/02 13:00	03/06/02 08:30
0203100-10	0159-030502-TB1	W 03/05/02 13:00	03/06/02 08:30

Printed: 03/06/02

02-03135
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CHAIN OF CUSTODY RECORD

PAGE 1 OF 9

PROJECT NO.: 900FF
PROJECT NAME: OSCURA RANGE LANDFILL
SAMPLER'S SIGNATURE:

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonium Perchlorate	Total Metals	Phosphorous	Mercury	VOC's	TPH	SVOC's	Explosives	Herbicides	Pesticides	PCB's	REMARKS
1	3-6-02	1112	0159-SB13 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	3-6-02	1134	0159-SB09 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	3-6-02	1124	0159-SB12 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	3-6-02	1124	0159-SB12 (7.0) QC	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	3-6-02	1234	0159-030602-TB3	water		2					✓							
	3-6-02	1234	0159-030602-TMP3	water		1												Temp.

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: BRAD DAVIS	SAMPLES RECEIVED		(PRINTED NAME) GABRIEL GARCIA	(PRINTED NAME)	(PRINTED NAME) Jennifer Penner
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
VIA: FED-EX.	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 3-7-02 9:15
	GOOD CONDITION/CHILLED	4/1.10	SPECIAL INSTRUCTIONS / COMMENTS:		
	CONFORMS TO RECORD				

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 900FF
PROJECT NAME: OSCURA RANGE LANDFILL
SAMPLER'S SIGNATURE:

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonium Perchlorate	Total Metals	Phosphorous	Mercury	VOC's	TPH	SVOC's	Explosives	Herbicides	Pesticides	PCB's	REMARKS
4	3-5-02	1430	0159-SB06 (15.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	3-5-02	1525	0159-SB04 (15.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	3-5-02	1650	0159-SB02 (15.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	3-5-02	1702	0159-SB02 (20.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	3-6-02	1050	0159-SB10 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	3-6-02	1105	0159-SB11 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	3-6-02	1234	0159-030602-TB1	water		2					✓							
	3-6-02	1234	0159-030602TMP1	water		1												Temp.

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: BRAD DAVIS	SAMPLES RECEIVED		(PRINTED NAME)	(PRINTED NAME)	(PRINTED NAME) Jennifer Perner
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
VIA: FED-EX	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 3-7-02 9:15
	GOOD CONDITION/CHILLED	Y/1.8°C	SPECIAL INSTRUCTIONS / COMMENTS: See attached analyte list		
	CONFORMS TO RECORD				

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 900FF
PROJECT NAME: OSCURA RANGE LANDFILL
SAMPLER'S SIGNATURE:

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonium Perchlorate	Total Metals	Phosphorous	Mercury	VOC's	TPH	SVOC's	Explosives	Herbicides	Pesticides	PCB'S	REMARKS
10	3-6-02	0904	0159-SB14 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	3-6-02	0907	0159-SB14 (15.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	3-6-02	0915	0159-SB14 (20.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	3-6-02	1010	0159-SB15 (7.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	3-6-02	1015	0159-SB15 (15.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	3-6-02	1025	0159-SB15 (20.0)	SOIL		5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	3-6-02	1234	0159-030602-TB2	Water		2					✓							
	3-6-02	1234	0159-030602-TMP2	Water		1												Temp

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: BRAD DAVIS	SAMPLES RECEIVED		(PRINTED NAME) GABRIEL GARCIA	(PRINTED NAME)	(PRINTED NAME) Jennifer Penner
	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 3-7-02 9:15
	GOOD CONDITION/CHILLED	y/2.1°C	SPECIAL INSTRUCTIONS / COMMENTS: See attached analyte list		
VIA: FED-EX	CONFORMS TO RECORD				

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Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-03-135

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers 1 of 3

Project: Mevatec

Date samples were received at the laboratory: 3/7/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 3/7/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>>>>> YES NO

   If YES, record carrier name and airbill number: Fed/Ex 8326 0578 2656

2. Were custody seals on outside of cooler?>> YES NO

   How many and where: 2- 1 front, 1 back

   Seal date: 3/6/02 Seal name: Illegible

3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>>> YES NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>>> YES NO
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>>> YES NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>>>>>> YES NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>>>>>> YES NO
8. Was project identifiable from custody papers? If YES, enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: cube YES NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 3/7/02

B. LOG-IN PHASE : Date samples were logged-in: 3/7/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>>>>>> YES NO
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>>> YES NO

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? (YES) NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>(YES) NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>>(YES) NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>(YES) NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>>(YES) NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>> (YES) NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>> YES NO

    If YES, give details below

21. Who was called / faxed? ______________________________

    By whom?______________________(date)______________

DISCREPANCIES:

Cooler 1 of 3

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-03-135
Assigned SDG Number: 05C01

Number of Cooler

Temperature Blank 1.8°C		pH of Bottle Types								
		2oz jar	4oz jar	VOA						
4		1) N/C	4) N/C	—						
5		1) ↓	4) ↓	—						
6		1)	4)	—						
7		1)	4)	—						
8		1)	4)	—						
9		1)	4)	—						
17		—	—	2) N/C						

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

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Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-03-135

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers 2 of 3

Project: Mevatec

Date samples were received at the laboratory: 3/7/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 3/7/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>>> (YES) NO
   If YES, record carrier name and airbill number: FedEx 8326 0578 2678
2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   How many and where: 2 - 1 front, 1 back
   Seal date: 3/6/02 Seal name: Illegable
3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>> (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>>> YES (NO)
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> (YES) NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>> (YES) NO
8. Was project identifiable from custody papers? If (YES), enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: cubes (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 3/7/02

B. LOG-IN PHASE : Date samples were logged-in: 3/7/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>> YES (NO)
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>> (YES) NO

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>YES NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>>YES NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>YES NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>>>YES NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>>> YES NO

    If YES, give details below

21. Who was called / faxed? _____

    By whom?_____(date)_____

DISCREPANCIES:

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Cooler 2 of 3

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-03-135
Assigned SDG Number: 05C01

Number of Cooler

Temperature		pH of Bottle Types								
2.1°C		2oz jar	4oz jar	VOA						
10		1) N/C	4) N/C	—						
11		1)	4)	—						
12		1)	4)	—						
13		1)	4)	—						
14		1)	4)	—						
15		1)	4)	—						
16		—	—	2) N/C						

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

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Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-03-135

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers 3 of 3

Project: Novatec

Date samples were received at the laboratory: 3/7/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 3/7/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>>> (YES) NO
   If YES, record carrier name and airbill number: FedEx 8326 0578 2667
2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   How many and where: 2 - 1 Front, 1 back
   Seal date: 3/6/02 Seal name: Illegable
3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>>> (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>> YES (NO)
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> (YES) NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>> (YES) NO
8. Was project identifiable from custody papers? If (YES), enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: cube (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 3/7/02

B. LOG-IN PHASE: Date samples were logged-in: 3/7/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>>> YES (NO)
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>> (YES) NO

Cooler 3 of 3

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-03135
Assigned SDG Number: OSC 01

Number of Cooler

Temperature		pH of Bottle Types								
2.6°C		2 oz	4 oz	VOA						
1		1) N/C	4) N/C	—						
2		1)	4)	—						
3		2)	8)							
16		—	—	2) N/C						

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

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Sample ID Cross-Reference
Laucks Testing Laboratories

Sample ID	Client ID/Matrix		Collected	Received
0203135-01	0159-SB13-(7.0)	S	03/06/02 11:12	03/07/02 09:15
0203135-02	0159-SB09-(7.0)	S	03/06/02 11:34	03/07/02 09:15
0203135-03	0159-SB12-(7.0)	S	03/06/02 11:24	03/07/02 09:15
0203135-04	0159-SB06-(15.0)	S	03/05/02 14:30	03/07/02 09:15
0203135-05	0159-SB04-(15.0)	S	03/05/02 15:25	03/07/02 09:15
0203135-06	0159-SB02-(15.0)	S	03/05/02 16:50	03/07/02 09:15
0203135-07	0159-SB02-(20.0)	S	03/05/02 17:02	03/07/02 09:15
0203135-08	0159-SB10-(7.0)	S	03/06/02 10:50	03/07/02 09:15
0203135-09	0159-SB11-(7.0)	S	03/06/02 11:05	03/07/02 09:15
0203135-10	0159-SB14-(7.0)	S	03/06/02 09:04	03/07/02 09:15
0203135-11	0159-SB14-(15.0)	S	03/06/02 09:07	03/07/02 09:15
0203135-12	0159-SB14-(20.0)	S	03/06/02 09:15	03/07/02 09:15
0203135-13	0159-SB15-(7.0)	S	03/06/02 10:10	03/07/02 09:15
0203135-14	0159-SB15-(15.0)	S	03/06/02 10:15	03/07/02 09:15
0203135-15	0159-SB15-(20.0)	S	03/06/02 10:25	03/07/02 09:15
0203135-16	0159-030602-TB3	W	03/06/02 12:34	03/07/02 09:15
0203135-17	0159-030602-TB2	W	03/06/02 12:34	03/07/02 09:15
0203135-18	0159-030602-TB1	W	03/06/02 12:34	03/07/02 09:15

Printed: 03/08/02

LAUCKS TESTING LABORATORIES
GC/MS VOA CUSTODY LOG

LABORATORY NUMBER	SAMPLE NUMBER	DATE & TIME REMOVED	BY	DATE & TIME RETURNED	BY	COMMENTS
0203100	1-10	3/8/02 1120	DP	3/8/02 1700	GN	
0203135	1-18					
0203085	1-5					
0203120	1,2					
0203127	1-20					
0202544	7-9	3/8/02 1200	GN			
0203025	1-8					
0203100	1-10	3/11/02 1130	JD	3/11/02 1700	JD	
0203135	1-18					
0203085	1-5					
0203120	1,2					
~~0203127~~ 3/11/02	~~1-20~~					
0203019	6-7					
0203026	3					
0203096	1-4					
0203119	1-3					
0203105	1-5					
0203025	1-21	3/11/02 1230	GN	3/11/02 1830	GN	
0203027	1-13					
0203100	1-10	3/12/02 1120	JD	3/12/02 1645	JD	
0203135	1-18					
0203171	1-14					
0203193	1-5					
0203154	7,8	3/12/02 1140	DP	3/12/02 1715	DP	
0203127	19,20					
0203124	1,3,5					
0203142	1,2,5					
0203173	1-3					
0203025	17,16-18	3/12/02 1300	GN	3/12/02 2030	GN	
0203027	1-13					
0203120	1-2	3/12/02 1600	[illegible]	3/12/02 1800	[illegible]	TS_V
85	1-5					
0203173	2	3/13/02 1150	DP			Consumed

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LA[illegible]RATORIES
GC/MS VOA CUSTODY LOG

LABORATORY NUMBER	SAMPLE NUMBER	DATE & TIME REMOVED	BY	DATE & TIME RETURNED	BY	COMMENTS
0203171	13	3/13/02 1200	JD	3/13/02 1630	JD	
0203100	1-10			3/13/02 1600	JD	
0203135	1-15					
0203183	1-5			3/13/02 1630	JD	
0203253	1-2					
0203149	1-2					
0203200	6,7,13,14					
0203027	8,11-13	3/12/02 1500	GN			
0203263	1-2	3/13/02 1630	JD	3/13/02 1630	JD	
0203025	1-19	3/14/02 1130	GN	3/14/02 1800	DP	
0203100	6	3/14/02 1230	JD			
0203135	1-15					
0203178	1-8	3/14/02 1250	DP			

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GC Volatiles Custody Log
Laucks Testing Laboratories, Seattle, Washington

Samples	Analysis	Date/Time Removed	Analyst	Date/Time Returned	Analyst	Comment
0202497 1-2	KC8015	3/1/02 1055	SMS	3/1/02 1520	SMS	
0202494 1-2				3/1/02 1455	SMS	
0202549 1-2				3/1/02 1100	SMS	
0203015 1-5	KC8015	3/1/02 1455	SMS	3/1/02 1635	SMS	
0202494 1-2	KC8015	3-4-2 0745	[illegible]	3/4/02 0935	SMS	
0202498 1-2						
0202550 1						
0202533 1-2	KC8015	3/4/02 0935	SMS	3/4/02 1310	SMS	
0202547 1-4						
0202549 1-2						
0203024 1-2	KC8015	3/4/02 1230	SMS	3/4/02 1425	SMS	
0203011 1-2	TPHG	3/6/02 0850	SMS	3/6/02 1355	SMS	
0203023 1-8	AK101					sent to extractions
0203051 1-8	BTEX	3-7-2 0730	[illegible]	3-7-2 1000	[illegible]	
0203023 1-8	~~AK101/BTEX~~					
0203029 1-2	KC8015	3-7-2 0815	[illegible]			
0203076 1-2						
0203077 4						
0203077 1-3	KC8015	3-7-2 1000	[illegible]	3-7-2 1130	[illegible]	
0203106 1-5						
0203130 1-2	KC8015	3-7-2 1130	[illegible]	3-7-2 1245	[illegible]	
0203100 1-7	TPHG	3-8-2 0745	[illegible]	3-8-2 1045	[illegible]	
0203135 1-15						

GC Volatiles Custody Log
Laucks Testing Laboratories, Seattle, Washington

Samples	Analysis	Date/Time Removed	Analyst	Date/Time Returned	Analyst	Comment
0203131 1-20	TPHG	3/8/02 1410	SMS	3/8/02 1615	SMS	
0203132 1-9	↓	↓ ↓	↓	↓ ↓	↓	
0203130 1-2	KC8015	3-11-2 0730	MK	3-11-2 0900	MK	
0203136 1-3	↓	↓	↓	↓	↓	
0203180 1-8	TPHG	3/11/02 0825	SMS	3/11/02 1230	SMS	
0203182 1-5	↓	↓ ↓	↓	↓ ↓	↓	
0203179 1-20	↓	↓ ↓	↓	↓ ↓	↓	
0203181 1-20	↓	↓ ↓	↓	↓ ↓	↓	
0203104 1-4	KC8015	3-11-2 1200	MK	3/11/02 1350	SMS	
0203163 1-4	↓	↓	↓	↓ ↓	↓	
0203100 8-10	TPHG	3-13-2 0700	MK	3-13-2 0845	MK	
0203135 16-18	↓	↓	↓	↓	↓	
0203235 20	↓	↓	↓	↓	↓	
0203178 1-5	↓	↓	↓	↓	↓	
0203235 1-19	TPHG	3/13/02 0915	SMS	3/13/02 1350	SMS	
0203250 1	NWTPHG	3/13/02 0940	SMS	↓ ↓	↓	
0203124 1-3	TPHG	3-13-2 ~~0700~~ 1350 MK 3-13-2	MK	3/13/02 1610	SMS	
0203142 1-2	↓	↓	↓	↓ ↓	↓	
0203173 1-2	↓	↓	↓	↓ ↓	↓	
0203169 2-7	KC8015	3-15-2 0700	MK	3-15-2 0830	MK	
0203194 1-3	↓	↓	↓	↓	↓	
0203160 1	KC8015	3-15-2 0900	MK	3-15-2 1100	MK	
0203193 1-4	↓	↓	↓	↓	↓	

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LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108
MEVATEC Corporation

Laboratory No.: 0203100, 0203135

SDG No.: OSC01

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LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

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Completed and checked by: Cheron Date: 4/12/08

SAMPLE DATA

SDG # OSC01

0203100
0203135

Volatiles Analysis

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB01-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-01

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: F0311017.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 10

Date Analyzed: 03/11/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	9	J
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	21	B
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	11	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	4	
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

FORM I VOA

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB03-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-02

Sample wt/vol: 4.9 (g/ml) G

Lab File ID. F0311016.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 12

Date Analyzed: 03/11/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg) UG/KG		Q
74-87-3	Chloromethane	4	U
75-01-4	Vinyl chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	14	
75-15-0	Carbon disulfide	4	U
75-09-2	Methylene chloride	16	B
156-60-5	trans-1,2-Dichloroethene	4	U
75-34-3	1,1-Dichloroethane	4	U
156-59-2	cis-1,2-Dichloroethene	4	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	4	U
71-55-6	1,1,1-Trichloroethane	4	U
56-23-5	Carbon tetrachloride	4	U
71-43-2	Benzene	4	U
107-06-2	1,2-Dichloroethane	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	4	U
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
127-18-4	Tetrachloroethene	4	U
591-78-6	2-Hexanone	12	U
75-71-8	Dichlorodifluoromethane	4	U
124-48-1	Dibromochloromethane	4	U
75-69-4	Trichlorofluoromethane	2	J
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB05-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-03

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: F0311019.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 9

Date Analyzed: 03/11/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	8	J
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	19	B
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	11	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	4	
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

FORM I VOA

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB05-(20.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-04

Sample wt/vol: 4.9 (g/ml) G

Lab File ID: F0311020.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 6

Date Analyzed: 03/11/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	11	
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	19	B
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	11	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	4	
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

FORM I VOA

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB07-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-05

Sample wt/vol: 4.8 (g/ml) G

Lab File ID: F0311021.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 14

Date Analyzed: 03/11/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4	U
75-01-4	Vinyl chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	8	J
75-15-0	Carbon disulfide	4	U
75-09-2	Methylene chloride	15	B
156-60-5	trans-1,2-Dichloroethene	4	U
75-34-3	1,1-Dichloroethane	4	U
156-59-2	cis-1,2-Dichloroethene	4	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	4	U
71-55-6	1,1,1-Trichloroethane	4	U
56-23-5	Carbon tetrachloride	4	U
71-43-2	Benzene	4	U
107-06-2	1,2-Dichloroethane	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	4	U
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
127-18-4	Tetrachloroethene	4	U
591-78-6	2-Hexanone	12	U
75-71-8	Dichlorodifluoromethane	4	U
124-48-1	Dibromochloromethane	4	U
75-69-4	Trichlorofluoromethane	3	J
108-90-7	Chlorobenzene	4	U
100-41-4	Ethylbenzene	4	U
108-38-3	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB08-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-06

Sample wt/vol: 0.5 (g/ml) G

Lab File ID: F0314008.D

Level: (low/med) LOW

Date Received: 03/06/02

% Moisture: not dec. 10

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	33	U
75-01-4	Vinyl chloride	33	U
74-83-9	Bromomethane	33	U
75-00-3	Chloroethane	33	U
75-35-4	1,1-Dichloroethene	33	U
67-64-1	Acetone	58	J
75-15-0	Carbon disulfide	33	U
75-09-2	Methylene chloride	40	B
156-60-5	trans-1,2-Dichloroethene	33	U
75-34-3	1,1-Dichloroethane	33	U
156-59-2	cis-1,2-Dichloroethene	33	U
78-93-3	2-Butanone	110	U
67-66-3	Chloroform	33	U
71-55-6	1,1,1-Trichloroethane	33	U
56-23-5	Carbon tetrachloride	33	U
71-43-2	Benzene	33	U
107-06-2	1,2-Dichloroethane	33	U
79-01-6	Trichloroethene	33	U
78-87-5	1,2-Dichloropropane	33	U
75-27-4	Bromodichloromethane	33	U
10061-01-5	cis-1,3-Dichloropropene	33	U
108-10-1	4-Methyl-2-pentanone	110	U
108-88-3	Toluene	33	U
10061-02-6	trans-1,3-Dichloropropene	33	U
79-00-5	1,1,2-Trichloroethane	33	U
127-18-4	Tetrachloroethene	33	U
591-78-6	2-Hexanone	110	U
75-71-8	Dichlorodifluoromethane	33	U
124-48-1	Dibromochloromethane	33	U
75-69-4	Trichlorofluoromethane	33	U
108-90-7	Chlorobenzene	33	U
100-41-4	Ethylbenzene	33	U
108-38-3	m,p-Xylene	33	U
95-47-6	o-Xylene	33	U
100-42-5	Styrene	33	U
75-25-2	Bromoform	33	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB04-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-05

Sample wt/vol: 1.0 (g/ml) G

Lab File ID: F0313016.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 8

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
75-01-4	Vinyl chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-35-4	1,1-Dichloroethene	16	U
67-64-1	Acetone	25	J
75-15-0	Carbon disulfide	16	U
75-09-2	Methylene chloride	12	JB
156-60-5	trans-1,2-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	54	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U
79-01-6	Trichloroethene	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-pentanone	54	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	54	U
75-71-8	Dichlorodifluoromethane	16	U
124-48-1	Dibromochloromethane	16	U
75-69-4	Trichlorofluoromethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
108-38-3	m,p-Xylene	16	U
95-47-6	o-Xylene	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB02-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-06

Sample wt/vol: 0.9 (g/ml) G

Lab File ID: F0313017.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 11

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	19	U
75-01-4	Vinyl chloride	19	U
74-83-9	Bromomethane	19	U
75-00-3	Chloroethane	19	U
75-35-4	1,1-Dichloroethene	19	U
67-64-1	Acetone	31	J
75-15-0	Carbon disulfide	19	U
75-09-2	Methylene chloride	14	JB
156-60-5	trans-1,2-Dichloroethene	19	U
75-34-3	1,1-Dichloroethane	19	U
156-59-2	cis-1,2-Dichloroethene	19	U
78-93-3	2-Butanone	62	U
67-66-3	Chloroform	19	U
71-55-6	1,1,1-Trichloroethane	19	U
56-23-5	Carbon tetrachloride	19	U
71-43-2	Benzene	19	U
107-06-2	1,2-Dichloroethane	19	U
79-01-6	Trichloroethene	19	U
78-87-5	1,2-Dichloropropane	19	U
75-27-4	Bromodichloromethane	19	U
10061-01-5	cis-1,3-Dichloropropene	19	U
108-10-1	4-Methyl-2-pentanone	62	U
108-88-3	Toluene	19	U
10061-02-6	trans-1,3-Dichloropropene	19	U
79-00-5	1,1,2-Trichloroethane	19	U
127-18-4	Tetrachloroethene	19	U
591-78-6	2-Hexanone	62	U
75-71-8	Dichlorodifluoromethane	19	U
124-48-1	Dibromochloromethane	19	U
75-69-4	Trichlorofluoromethane	19	U
108-90-7	Chlorobenzene	19	U
100-41-4	Ethylbenzene	19	U
108-38-3	m,p-Xylene	19	U
95-47-6	o-Xylene	19	U
100-42-5	Styrene	19	U
75-25-2	Bromoform	19	U
79-34-5	1,1,2,2-Tetrachloroethane	19	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB02-(20.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-07

Sample wt/vol: 1.1 (g/ml) G

Lab File ID. F0313018.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 9

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	15	U
75-01-4	Vinyl chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-35-4	1,1-Dichloroethene	15	U
67-64-1	Acetone	22	J
75-15-0	Carbon disulfide	15	U
75-09-2	Methylene chloride	11	JB
156-60-5	trans-1,2-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	50	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U
79-01-6	Trichloroethene	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	50	U
75-71-8	Dichlorodifluoromethane	15	U
124-48-1	Dibromochloromethane	15	U
75-69-4	Trichlorofluoromethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
108-38-3	m,p-Xylene	15	U
95-47-6	o-Xylene	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB10-(7.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-08

Sample wt/vol: 1.0 (g/ml) G

Lab File ID: F0313019.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 11

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
75-01-4	Vinyl chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-35-4	1,1-Dichloroethene	17	U
67-64-1	Acetone	31	J
75-15-0	Carbon disulfide	17	U
75-09-2	Methylene chloride	12	JB
156-60-5	trans-1,2-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	56	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U
79-01-6	Trichloroethene	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-pentanone	56	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	56	U
75-71-8	Dichlorodifluoromethane	17	U
124-48-1	Dibromochloromethane	17	U
75-69-4	Trichlorofluoromethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB11-(7.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-09

Sample wt/vol: 1.0 (g/ml) G

Lab File ID: F0314010.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec 12

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
75-01-4	Vinyl chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-35-4	1,1-Dichloroethene	17	U
67-64-1	Acetone	57	U
75-15-0	Carbon disulfide	17	U
75-09-2	Methylene chloride	18	B
156-60-5	trans-1,2-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	57	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U
79-01-6	Trichloroethene	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-pentanone	57	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	57	U
75-71-8	Dichlorodifluoromethane	17	U
124-48-1	Dibromochloromethane	17	U
75-69-4	Trichlorofluoromethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB14-(7.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-10

Sample wt/vol: 1.2 (g/ml) G

Lab File ID: F0313021.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 6

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-35-4	1,1-Dichloroethene	13	U
67-64-1	Acetone	20	J
75-15-0	Carbon disulfide	13	U
75-09-2	Methylene chloride	10	JB
156-60-5	trans-1,2-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	44	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	44	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	44	U
75-71-8	Dichlorodifluoromethane	13	U
124-48-1	Dibromochloromethane	13	U
75-69-4	Trichlorofluoromethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
108-38-3	m,p-Xylene	13	U
95-47-6	o-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB14-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-11

Sample wt/vol: 1.2 (g/ml) G

Lab File ID: F0313022.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 10

Date Analyzed: 03/13/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	14	U
75-01-4	Vinyl chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-35-4	1,1-Dichloroethene	14	U
67-64-1	Acetone	21	J
75-15-0	Carbon disulfide	14	U
75-09-2	Methylene chloride	13	JB
156-60-5	trans-1,2-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	46	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U
79-01-6	Trichloroethene	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-pentanone	46	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	46	U
75-71-8	Dichlorodifluoromethane	14	U
124-48-1	Dibromochloromethane	14	U
75-69-4	Trichlorofluoromethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
108-38-3	m,p-Xylene	14	U
95-47-6	o-Xylene	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB14-(20.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-12

Sample wt/vol: 1.0 (g/ml) G

Lab File ID: F0314011.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 14

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
75-01-4	Vinyl chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-35-4	1,1-Dichloroethene	17	U
67-64-1	Acetone	26	J
75-15-0	Carbon disulfide	17	U
75-09-2	Methylene chloride	17	JB
156-60-5	trans-1,2-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	58	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U
79-01-6	Trichloroethene	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-pentanone	58	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	58	U
75-71-8	Dichlorodifluoromethane	17	U
124-48-1	Dibromochloromethane	17	U
75-69-4	Trichlorofluoromethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
108-38-3	m,p-Xylene	17	U
95-47-6	o-Xylene	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB15-(7.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-13

Sample wt/vol: 1.1 (g/ml) G

Lab File ID: F0314012.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 7

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
75-01-4	Vinyl chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-35-4	1,1-Dichloroethene	15	U
67-64-1	Acetone	21	J
75-15-0	Carbon disulfide	15	U
75-09-2	Methylene chloride	14	JB
156-60-5	trans-1,2-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	49	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon tetrachloride	15	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U
79-01-6	Trichloroethene	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	49	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	49	U
75-71-8	Dichlorodifluoromethane	15	U
124-48-1	Dibromochloromethane	15	U
75-69-4	Trichlorofluoromethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
108-38-3	m,p-Xylene	15	U
95-47-6	o-Xylene	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SB15-(15.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-14

Sample wt/vol: 1.2 (g/ml) G

Lab File ID: F0314013.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 22

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
75-01-4	Vinyl chloride	16	U
74-83-9	Bromomethane	16	U
75-00-3	Chloroethane	16	U
75-35-4	1,1-Dichloroethene	16	U
67-64-1	Acetone	22	J
75-15-0	Carbon disulfide	16	U
75-09-2	Methylene chloride	16	JB
156-60-5	trans-1,2-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
156-59-2	cis-1,2-Dichloroethene	16	U
78-93-3	2-Butanone	53	U
67-66-3	Chloroform	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon tetrachloride	16	U
71-43-2	Benzene	16	U
107-06-2	1,2-Dichloroethane	16	U
79-01-6	Trichloroethene	16	U
78-87-5	1,2-Dichloropropane	16	U
75-27-4	Bromodichloromethane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
108-10-1	4-Methyl-2-pentanone	53	U
108-88-3	Toluene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
79-00-5	1,1,2-Trichloroethane	16	U
127-18-4	Tetrachloroethene	16	U
591-78-6	2-Hexanone	53	U
75-71-8	Dichlorodifluoromethane	16	U
124-48-1	Dibromochloromethane	16	U
75-69-4	Trichlorofluoromethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
108-38-3	m,p-Xylene	16	U
95-47-6	o-Xylene	16	U
100-42-5	Styrene	16	U
75-25-2	Bromoform	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB15-(20.0)

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-15

Sample wt/vol: 1.4 (g/ml) G

Lab File ID: F0314017.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 7

Date Analyzed: 03/14/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	19	J
75-15-0	Carbon disulfide	12	U
75-09-2	Methylene chloride	21	B
156-60-5	trans-1,2-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	38	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	38	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	38	U
75-71-8	Dichlorodifluoromethane	12	U
124-48-1	Dibromochloromethane	12	U
75-69-4	Trichlorofluoromethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
108-38-3	m,p-Xylene	12	U
95-47-6	o-Xylene	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

030602-TB3

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-16

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: F0312011.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 0

Date Analyzed: 03/12/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	3	JB
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	10	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	3	U
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

030602-TB2

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-17

Sample wt/vol: 5.0 (g/ml) C

Lab File ID: F0312012.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 0

Date Analyzed: 03/12/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	3	JB
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	10	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	3	U
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET

030602-TB1

Lab Name: Laucks Testing Labs

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-18

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: F0312013.D

Level: (low/med) LOW

Date Received: 03/07/02

% Moisture: not dec. 0

Date Analyzed: 03/12/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	3	U
75-01-4	Vinyl chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	3	U
75-09-2	Methylene chloride	3	JB
156-60-5	trans-1,2-Dichloroethene	3	U
75-34-3	1,1-Dichloroethane	3	U
156-59-2	cis-1,2-Dichloroethene	3	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	3	U
71-55-6	1,1,1-Trichloroethane	3	U
56-23-5	Carbon tetrachloride	3	U
71-43-2	Benzene	3	U
107-06-2	1,2-Dichloroethane	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
127-18-4	Tetrachloroethene	3	U
591-78-6	2-Hexanone	10	U
75-71-8	Dichlorodifluoromethane	3	U
124-48-1	Dibromochloromethane	3	U
75-69-4	Trichlorofluoromethane	3	U
108-90-7	Chlorobenzene	3	U
100-41-4	Ethylbenzene	3	U
108-38-3	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U

SAMPLE DATA

SDG# OSC01

Semivolatiles

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB01-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-01

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318010.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB01-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-01

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318010.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	150	J
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	90	J
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB03-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-02

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318011.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 12 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS.

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
67-72-1	Hexachloroethane	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	760	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U
132-64-9	Dibenzofuran	380	U
100-02-7	4-Nitrophenol	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB03-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-02

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318011.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 12 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	150	J
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
122-66-7	1,2-Diphenylhydrazine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
92-87-5	Benzidine	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo[a]anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo[b]fluoranthene	380	U
207-08-9	Benzo[k]fluoranthene	380	U
50-32-8	Benzo[a]pyrene	380	U
193-39-5	Indeno[1,2,3-cd]pyrene	380	U
53-70-3	Dibenz[a,h]anthracene	380	U
191-24-2	Benzo[g,h,i]perylene	380	U

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0159-SB05-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-03

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318012.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 9 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	730	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB05-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-03

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318012.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 9 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	150	J
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB05-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-04

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318013.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
67-72-1	Hexachloroethane	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	710	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
100-02-7	4-Nitrophenol	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB05-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-04

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318013.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	200	J
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
122-66-7	1,2-Diphenylhydrazine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
92-87-5	Benzidine	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo[a]anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo[b]fluoranthene	350	U
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB07-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-05

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318014.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
67-72-1	Hexachloroethane	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic acid	780	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
100-02-7	4-Nitrophenol	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB07-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-05

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318014.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	160	J
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
122-66-7	1,2-Diphenylhydrazine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
92-87-5	Benzidine	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
56-55-3	Benzo[a]anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	390	U
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	390	U
53-70-3	Dibenz[a,h]anthracene	390	U
191-24-2	Benzo[g,h,i]perylene	390	U

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0159-SB08-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-06

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318015.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB08-(15.0)

Lab Name: Laucks Testing Labs Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-06

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318015.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	130	J
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0159-SB08-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-07

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318018.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
67-72-1	Hexachloroethane	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	710	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
100-02-7	4-Nitrophenol	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB08-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203100-07

Sample wt/vol: 15 (g/ml) G Lab File ID: L0318018.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/14/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/18/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	140	J
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
122-66-7	1,2-Diphenylhydrazine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	250	J
92-87-5	Benzidine	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo[a]anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo[b]fluoranthene	350	U
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-ORC-RINSATE

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) WATER Lab Sample ID: 0203100-09

Sample wt/vol: 990 (g/ml) ML Lab File ID: L0320008.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: decanted:(Y/N) N Date Extracted: 03/12/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/20/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
100-51-6	Benzyl alcohol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
67-72-1	Hexachloroethane	5	U
105-67-9	2,4-Dimethylphenol	5	U
65-85-0	Benzoic acid	10	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	5	U
131-11-3	Dimethylphthalate	5	U
606-20-2	2,6-Dinitrotoluene	5	U
208-96-8	Acenaphthylene	5	U
99-09-2	3-Nitroaniline	5	U
83-32-9	Acenaphthene	5	U
132-64-9	Dibenzofuran	5	U
100-02-7	4-Nitrophenol	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-ORC-RINSATE

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) WATER Lab Sample ID: 0203100-09

Sample wt/vol: 990 (g/ml) ML Lab File ID: L0320008.D

Level: (low/med) LOW Date Received: 03/06/02

% Moisture: decanted:(Y/N) N Date Extracted: 03/12/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/20/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	1	J
86-73-7	Fluorene	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
100-01-6	4-Nitroaniline	5	U
534-52-1	4,6-Dinitro-2-methylphenol	5	U
86-30-6	N-Nitrosodiphenylamine	5	U
122-66-7	1,2-Diphenylhydrazine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	5	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
86-74-8	Carbazole	5	U
84-74-2	Di-n-butylphthalate	5	U
92-87-5	Benzidine	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
56-55-3	Benzo[a]anthracene	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB13-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-01

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313007.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB13-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-01

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313007.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	270	J
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB09-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-02

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313008.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 13 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
67-72-1	Hexachloroethane	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	770	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U
132-64-9	Dibenzofuran	380	U
100-02-7	4-Nitrophenol	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB09-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-02

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313008.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 13 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	770	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
122-66-7	1,2-Diphenylhydrazine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
92-87-5	Benzidine	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo[a]anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo[b]fluoranthene	380	U
207-08-9	Benzo[k]fluoranthene	380	U
50-32-8	Benzo[a]pyrene	380	U
193-39-5	Indeno[1,2,3-cd]pyrene	380	U
53-70-3	Dibenz[a,h]anthracene	380	U
191-24-2	Benzo[g,h,i]perylene	380	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB12-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-03

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313009.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB12-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-03

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313009.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	120	J
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB06-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-04

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 15 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
67-72-1	Hexachloroethane	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic acid	780	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
100-02-7	4-Nitrophenol	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB06-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-04

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 15 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
122-66-7	1,2-Diphenylhydrazine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
92-87-5	Benzidine	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
56-55-3	Benzo[a]anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	390	U
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	390	U
53-70-3	Dibenz[a,h]anthracene	390	U
191-24-2	Benzo[g,h,i]perylene	390	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB04-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-05

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 8 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
67-72-1	Hexachloroethane	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
100-02-7	4-Nitrophenol	360	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB04-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-05

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 8 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	720	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
122-66-7	1,2-Diphenylhydrazine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
92-87-5	Benzidine	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
56-55-3	Benzo[a]anthracene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	360	U
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	360	U
193-39-5	Indeno[1,2,3-cd]pyrene	360	U
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	360	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB02-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-06

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313014.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 11 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	750	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB02-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-06

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313014.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 11 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB02-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-07

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313015.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 9 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	730	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB02-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-07

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313015.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 9 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB10-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-08

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313016.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 11 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	750	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB10-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-08

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313016.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 11 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB11-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-09

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313017.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 12 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
100-51-6	Benzyl alcohol	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
67-72-1	Hexachloroethane	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic acid	760	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	380	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	380	U
131-11-3	Dimethylphthalate	380	U
606-20-2	2,6-Dinitrotoluene	380	U
208-96-8	Acenaphthylene	380	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	380	U
132-64-9	Dibenzofuran	380	U
100-02-7	4-Nitrophenol	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB11-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-09

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313017.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 12 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
122-66-7	1,2-Diphenylhydrazine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
92-87-5	Benzidine	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo[a]anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo[b]fluoranthene	380	U
207-08-9	Benzo[k]fluoranthene	380	U
50-32-8	Benzo[a]pyrene	380	U
193-39-5	Indeno[1,2,3-cd]pyrene	380	U
53-70-3	Dibenz[a,h]anthracene	380	U
191-24-2	Benzo[g,h,i]perylene	380	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-10

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319010.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 0 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
67-72-1	Hexachloroethane	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	710	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
100-02-7	4-Nitrophenol	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-10

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319010.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
122-66-7	1,2-Diphenylhydrazine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
92-87-5	Benzidine	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo[a]anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo[b]fluoranthene	350	U
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-11

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313019.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-11

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313019.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(20.0)

Lab Name: Laucks Testing Labs Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319011.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
67-72-1	Hexachloroethane	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic acid	780	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
100-02-7	4-Nitrophenol	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(20.0)

Lab Name: Laucks Testing Labs Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319011.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
122-66-7	1,2-Diphenylhydrazine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
92-87-5	Benzidine	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
56-55-3	Benzo[a]anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	390	U
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	390	U
53-70-3	Dibenz[a,h]anthracene	390	U
191-24-2	Benzo[g,h,i]perylene	390	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313021.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted.(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (ul) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
67-72-1	Hexachloroethane	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
100-02-7	4-Nitrophenol	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313021.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	720	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
122-66-7	1,2-Diphenylhydrazine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	280	J
92-87-5	Benzidine	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
56-55-3	Benzo[a]anthracene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	360	U
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	360	U
193-39-5	Indeno[1,2,3-cd]pyrene	360	U
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	360	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-14

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 22 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
100-51-6	Benzyl alcohol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
67-72-1	Hexachloroethane	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic acid	850	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	430	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	430	U
132-64-9	Dibenzofuran	430	U
100-02-7	4-Nitrophenol	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-14

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 22 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	850	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
122-66-7	1,2-Diphenylhydrazine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	280	J
92-87-5	Benzidine	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
56-55-3	Benzo[a]anthracene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo[b]fluoranthene	430	U
207-08-9	Benzo[k]fluoranthene	430	U
50-32-8	Benzo[a]pyrene	430	U
193-39-5	Indeno[1,2,3-cd]pyrene	430	U
53-70-3	Dibenz[a,h]anthracene	430	U
191-24-2	Benzo[g,h,i]perylene	430	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
67-72-1	Hexachloroethane	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
100-02-7	4-Nitrophenol	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	720	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
122-66-7	1,2-Diphenylhydrazine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
92-87-5	Benzidine	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
56-55-3	Benzo[a]anthracene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	360	U
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	360	U
193-39-5	Indeno[1,2,3-cd]pyrene	360	U
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	360	U

EPA 8015 modified - Gasoline
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-01
Client Sample ID : SB01(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 11:05

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-02
Client Sample ID : SB03(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 12

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 11:43

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-03
Client Sample ID : SB05(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 9

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 12:21

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.5 U	5.5
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-04
Client Sample ID : SB05(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 12:59

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	116	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-05
Client Sample ID : SB07(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 14

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 13:38

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.8 U	5.8
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	106	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-06
Client Sample ID : SB08(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 15:32

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-07
Client Sample ID : SB08(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 17.27

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-08
Client Sample ID : 030502TB2
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 13:53

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	101	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-09
Client Sample ID : ORCRINSATE
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 14:31

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	98	50 - 150
Bromofluorobenzene	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-10
Client Sample ID : 030502TB1
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 15:09

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	103	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-01
Client Sample ID : SB13(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 18:05

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-02
Client Sample ID : SB09(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 13

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 18:43

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-03
Client Sample ID : SB12(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 19:21

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-04
Client Sample ID : SB06(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 15

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 21:15

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.9 U	5.9
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	110	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-05
Client Sample ID : SB04(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 8

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 10.00

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-06
Client Sample ID : SB02(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 11

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 10:38

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	103	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-07
Client Sample ID : SB02(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 9

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 11:16

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.5 U	5.5
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-08
Client Sample ID : SB10(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 11

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 11:54

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-09
Client Sample ID : SB11(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 12

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 12:32

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-10
Client Sample ID : SB14(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 13:48

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-11
Client Sample ID : SB14(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 14:26

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	107	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-12
Client Sample ID : SB14(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 14

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 15:04

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.8 U	5.8
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	114	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-13
Client Sample ID : SB15(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 7

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 15:42

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-14
Client Sample ID : SB15(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 22

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 16:20

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	6.4 U	6.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-15
Client Sample ID : SB15(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 7

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 16:58

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-16
Client Sample ID : 030602TB3
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 15:47

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-17
Client Sample ID : 030602TB2
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 16:25

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	106	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-18
Client Sample ID : 030602TB1
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 17:03

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	104	50 - 150

RL = Reporting limit.

Comment :

EPA 8015 modified - Diesel
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-01
Client Sample ID : SB01-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 14:35

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	73	50 - 150
p-Terphenyl	106	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-02
Client Sample ID : SB03-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/4/02
Date Received : 3/6/02
Date Extracted : 3/9/02
Date Analyzed : 3/13/02
Time Analyzed : 15:12

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 12

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	74	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-03
Client Sample ID : SB05-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 15:49

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 9

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	72	50 - 150
p-Terphenyl	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-04
Client Sample ID : SB05-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/19/02

Date Analyzed : 3/20/02
Time Analyzed : 19:09

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-05
Client Sample ID : SB07-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 17:04

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 14

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	77	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-06
Client Sample ID : SB08-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 20:10

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	67	50 - 150
p-Terphenyl	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-07
Client Sample ID : SB08-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02
Date Extracted : 3/9/02
Date Analyzed : 3/13/02
Time Analyzed : 22:01

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-09
Client Sample ID : ORC-RINSATE
Matrix : WATER
Reporting Units : mg/L

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/20/02
Time Analyzed : 0:03

Sample Extracted(ml) : 400
Total Extract Volume(ml) : 2
Percent Moisture : N/A

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	0.25 U	0.25
Motor Oil (C24-C40)	1.0 U	1.0

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	85	50 - 150
p-Terphenyl	115	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-01
Client Sample ID : SB13-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 22:38

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	91	50 - 150
p-Terphenyl	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-02
Client Sample ID : SB09-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 23:15

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 13

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	92	50 - 150
p-Terphenyl	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-03
Client Sample ID : SB12-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 23:52

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	88	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-04
Client Sample ID : SB06-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 3:34

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 15

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	114	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-05
Client Sample ID : SB04-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 4:11

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 8

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	99	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-06
Client Sample ID : SB02-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02
Date Extracted : 3/9/02
Date Analyzed : 3/14/02
Time Analyzed : 4:47

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 11

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	117	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs. Inc.
Lab Sample ID : 0203135-07
Client Sample ID : SB02-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 5:24

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 9

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	94	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-08
Client Sample ID : SB10-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 6:01

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 11

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	79	50 - 150
p-Terphenyl	102	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-09
Client Sample ID : SB11-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 6:38

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 12

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	117	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-10
Client Sample ID : SB14-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 7:16

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	88	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-11
Client Sample ID : SB14-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 7:52

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	89	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-12
Client Sample ID : SB14-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 8:29

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 14

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	75	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-13
Client Sample ID : SB15-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 11:35

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 7

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	83	50 - 150
p-Terphenyl	123	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-14
Client Sample ID : SB15-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 12:12

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 22

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	32 U	32
Motor Oil (C24-C40)	130 U	130

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	79	50 - 150
p-Terphenyl	126	50 - 150

RL = Reporting limit.

Comment:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB11-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-09

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313017.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 12 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	760	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
86-73-7	Fluorene	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine	380	U
122-66-7	1,2-Diphenylhydrazine	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
92-87-5	Benzidine	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
56-55-3	Benzo[a]anthracene	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo[b]fluoranthene	380	U
207-08-9	Benzo[k]fluoranthene	380	U
50-32-8	Benzo[a]pyrene	380	U
193-39-5	Indeno[1,2,3-cd]pyrene	380	U
53-70-3	Dibenz[a,h]anthracene	380	U
191-24-2	Benzo[g,h,i]perylene	380	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-10

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319010.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 0 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
67-72-1	Hexachloroethane	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic acid	710	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	350	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	350	U
606-20-2	2,6-Dinitrotoluene	350	U
208-96-8	Acenaphthylene	350	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	350	U
132-64-9	Dibenzofuran	350	U
100-02-7	4-Nitrophenol	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-10

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319010.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 6 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
86-73-7	Fluorene	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine	350	U
122-66-7	1,2-Diphenylhydrazine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
92-87-5	Benzidine	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
56-55-3	Benzo[a]anthracene	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo[b]fluoranthene	350	U
207-08-9	Benzo[k]fluoranthene	350	U
50-32-8	Benzo[a]pyrene	350	U
193-39-5	Indeno[1,2,3-cd]pyrene	350	U
53-70-3	Dibenz[a,h]anthracene	350	U
191-24-2	Benzo[g,h,i]perylene	350	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-11

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313019.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
100-51-6	Benzyl alcohol	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso di-n-propylamine	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
67-72-1	Hexachloroethane	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic acid	740	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	370	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	370	U
131-11-3	Dimethylphthalate	370	U
606-20-2	2,6-Dinitrotoluene	370	U
208-96-8	Acenaphthylene	370	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	370	U
132-64-9	Dibenzofuran	370	U
100-02-7	4-Nitrophenol	370	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-11

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313019.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 10 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
86-73-7	Fluorene	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine	370	U
122-66-7	1,2-Diphenylhydrazine	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
92-87-5	Benzidine	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
56-55-3	Benzo[a]anthracene	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo[b]fluoranthene	370	U
207-08-9	Benzo[k]fluoranthene	370	U
50-32-8	Benzo[a]pyrene	370	U
193-39-5	Indeno[1,2,3-cd]pyrene	370	U
53-70-3	Dibenz[a,h]anthracene	370	U
191-24-2	Benzo[g,h,i]perylene	370	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(20.0)

Lab Name: Laucks Testing Labs Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319011.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
100-51-6	Benzyl alcohol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
67-72-1	Hexachloroethane	390	U
105-67-9	2,4-Dimethylphenol	390	U
65-85-0	Benzoic acid	780	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	390	U
132-64-9	Dibenzofuran	390	U
100-02-7	4-Nitrophenol	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB14-(20.0)

Lab Name: Laucks Testing Labs Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319011.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 14 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	780	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine	390	U
122-66-7	1,2-Diphenylhydrazine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
92-87-5	Benzidine	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
56-55-3	Benzo[a]anthracene	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo[b]fluoranthene	390	U
207-08-9	Benzo[k]fluoranthene	390	U
50-32-8	Benzo[a]pyrene	390	U
193-39-5	Indeno[1,2,3-cd]pyrene	390	U
53-70-3	Dibenz[a,h]anthracene	390	U
191-24-2	Benzo[g,h,i]perylene	390	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313021.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted.(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (ul) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
67-72-1	Hexachloroethane	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
100-02-7	4-Nitrophenol	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(7.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0313021.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/13/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	720	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
122-66-7	1,2-Diphenylhydrazine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	280	J
92-87-5	Benzidine	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
56-55-3	Benzo[a]anthracene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	360	U
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	360	U
193-39-5	Indeno[1,2,3-cd]pyrene	360	U
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	360	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-14

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 22 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
541-73-1	1,3-Dichlorobenzene	430	U
106-46-7	1,4-Dichlorobenzene	430	U
95-50-1	1,2-Dichlorobenzene	430	U
100-51-6	Benzyl alcohol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
67-72-1	Hexachloroethane	430	U
105-67-9	2,4-Dimethylphenol	430	U
65-85-0	Benzoic acid	850	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
120-82-1	1,2,4-Trichlorobenzene	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	430	U
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	430	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	430	U
83-32-9	Acenaphthene	430	U
132-64-9	Dibenzofuran	430	U
100-02-7	4-Nitrophenol	430	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(15.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-14

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319012.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 22 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	850	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	430	U
534-52-1	4,6-Dinitro-2-methylphenol	430	U
86-30-6	N-Nitrosodiphenylamine	430	U
122-66-7	1,2-Diphenylhydrazine	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
87-86-5	Pentachlorophenol	430	U
85-01-8	Phenanthrene	430	U
120-12-7	Anthracene	430	U
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	280	J
92-87-5	Benzidine	430	U
206-44-0	Fluoranthene	430	U
129-00-0	Pyrene	430	U
85-68-7	Butylbenzylphthalate	430	U
56-55-3	Benzo[a]anthracene	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
218-01-9	Chrysene	430	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo[b]fluoranthene	430	U
207-08-9	Benzo[k]fluoranthene	430	U
50-32-8	Benzo[a]pyrene	430	U
193-39-5	Indeno[1,2,3-cd]pyrene	430	U
53-70-3	Dibenz[a,h]anthracene	430	U
191-24-2	Benzo[g,h,i]perylene	430	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
100-51-6	Benzyl alcohol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
67-72-1	Hexachloroethane	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	720	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	360	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	360	U
132-64-9	Dibenzofuran	360	U
100-02-7	4-Nitrophenol	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

0159-SB15-(20.0)

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC01

Matrix: (soil/water) SOIL Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) G Lab File ID: Z0319013.D

Level: (low/med) LOW Date Received: 03/07/02

% Moisture: 7 decanted:(Y/N) N Date Extracted: 03/09/02

Concentrated Extract Volume: 500 (uL) Date Analyzed: 03/19/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	720	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine	360	U
122-66-7	1,2-Diphenylhydrazine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
92-87-5	Benzidine	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
56-55-3	Benzo[a]anthracene	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo[b]fluoranthene	360	U
207-08-9	Benzo[k]fluoranthene	360	U
50-32-8	Benzo[a]pyrene	360	U
193-39-5	Indeno[1,2,3-cd]pyrene	360	U
53-70-3	Dibenz[a,h]anthracene	360	U
191-24-2	Benzo[g,h,i]perylene	360	U

EPA 8015 modified - Gasoline
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-01
Client Sample ID : SB01(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 11:05

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-02
Client Sample ID : SB03(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 12

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 11:43

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-03
Client Sample ID : SB05(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 9

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 12:21

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.5 U	5.5
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-04
Client Sample ID : SB05(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 12:59

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	116	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-05
Client Sample ID : SB07(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 14

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 13:38

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.8 U	5.8
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	106	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-06
Client Sample ID : SB08(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 15:32

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-07
Client Sample ID : SB08(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 17.27

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-08
Client Sample ID : 030502TB2
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 13:53

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	101	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-09
Client Sample ID : ORCRINSATE
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 14:31

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	98	50 - 150
Bromofluorobenzene	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-10
Client Sample ID : 030502TB1
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 15:09

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	103	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-01
Client Sample ID : SB13(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 18:05

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-02
Client Sample ID : SB09(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 13

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 18:43

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-03
Client Sample ID : SB12(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 19:21

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-04
Client Sample ID : SB06(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 15

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/11/02
Time Analyzed : 21:15

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.9 U	5.9
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	110	50 - 150
Bromofluorobenzene	112	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-05
Client Sample ID : SB04(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 8

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 10.00

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-06
Client Sample ID : SB02(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 11

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 10:38

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	103	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-07
Client Sample ID : SB02(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 9

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 11:16

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.5 U	5.5
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-08
Client Sample ID : SB10(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 11

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 11:54

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-09
Client Sample ID : SB11(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 12

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 12:32

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.7 U	5.7
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-10
Client Sample ID : SB14(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 6

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 13:48

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.3 U	5.3
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	102	50 - 150
Bromofluorobenzene	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-11
Client Sample ID : SB14(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 10

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 14:26

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.6 U	5.6
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	107	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-12
Client Sample ID : SB14(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 14

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 15:04

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.8 U	5.8
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	114	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-13
Client Sample ID : SB15(7.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 7

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 15:42

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	105	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-14
Client Sample ID : SB15(15.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 22

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 16:20

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	6.4 U	6.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment :

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-15
Client Sample ID : SB15(20.0)
Matrix : SOIL
Reporting Units : mg/Kg
Total Purge Volume(ml) : 10

Sample Extracted(gm) : 5
Extract Volume(ml) : 10
Percent Moisture : 7

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/8/02

Date Analyzed : 3/12/02
Time Analyzed : 16:58

Aliquot Volume (ul) : 100
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	5.4 U	5.4
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	106	50 - 150
Bromofluorobenzene	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-16
Client Sample ID : 030602TB3
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 15:47

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-17
Client Sample ID : 030602TB2
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 16:25

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	101	50 - 150
Bromofluorobenzene	106	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-18
Client Sample ID : 030602TB1
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 10
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : N/A

Date Analyzed : 3/13/02
Time Analyzed : 17:03

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	25 U	25
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	97	50 - 150
Bromofluorobenzene	104	50 - 150

RL = Reporting limit.

Comment :

EPA 8015 modified - Diesel
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-01
Client Sample ID : SB01-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/4/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 14:35

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	73	50 - 150
p-Terphenyl	106	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-02
Client Sample ID : SB03-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/4/02
Date Received : 3/6/02
Date Extracted : 3/9/02
Date Analyzed : 3/13/02
Time Analyzed : 15:12

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 12

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	74	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-03
Client Sample ID : SB05-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 15:49

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 9

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	72	50 - 150
p-Terphenyl	108	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-04
Client Sample ID : SB05-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/19/02

Date Analyzed : 3/20/02
Time Analyzed : 19:09

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-05
Client Sample ID : SB07-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 17:04

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 14

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	77	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-06
Client Sample ID : SB08-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 20:10

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	67	50 - 150
p-Terphenyl	105	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-07
Client Sample ID : SB08-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/6/02
Date Extracted : 3/9/02
Date Analyzed : 3/13/02
Time Analyzed : 22:01

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203100-09
Client Sample ID : ORC-RINSATE
Matrix : WATER
Reporting Units : mg/L

Date Collected : 3/5/02
Date Received : 3/6/02

Date Extracted : 3/8/02

Date Analyzed : 3/20/02
Time Analyzed : 0:03

Sample Extracted(ml) : 400
Total Extract Volume(ml) : 2
Percent Moisture : N/A

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	0.25 U	0.25
Motor Oil (C24-C40)	1.0 U	1.0

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	85	50 - 150
p-Terphenyl	115	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-01
Client Sample ID : SB13-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 22:38

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	91	50 - 150
p-Terphenyl	109	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-02
Client Sample ID : SB09-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 23:15

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 13

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	92	50 - 150
p-Terphenyl	112	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-03
Client Sample ID : SB12-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/13/02
Time Analyzed : 23:52

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	88	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-04
Client Sample ID : SB06-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 3:34

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 15

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	114	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-05
Client Sample ID : SB04-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 4:11

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 8

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	82	50 - 150
p-Terphenyl	99	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-06
Client Sample ID : SB02-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02
Date Extracted : 3/9/02
Date Analyzed : 3/14/02
Time Analyzed : 4:47

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 11

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	117	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs. Inc.
Lab Sample ID : 0203135-07
Client Sample ID : SB02-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/5/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 5:24

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 9

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	94	50 - 150
p-Terphenyl	116	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-08
Client Sample ID : SB10-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 6:01

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 11

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	79	50 - 150
p-Terphenyl	102	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-09
Client Sample ID : SB11-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 6:38

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 12

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	93	50 - 150
p-Terphenyl	117	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-10
Client Sample ID : SB14-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 7:16

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 6

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110
Surrogate(s)	**% Rec**	**Limits**
2-Fluorobiphenyl	88	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-11
Client Sample ID : SB14-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 7:52

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 10

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	28 U	28
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	89	50 - 150
p-Terphenyl	110	50 - 150

RL = Reporting limit

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-12
Client Sample ID : SB14-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 8:29

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 14

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	29 U	29
Motor Oil (C24-C40)	120 U	120

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	75	50 - 150
p-Terphenyl	104	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-13
Client Sample ID : SB15-(7.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 11:35

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 7

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	83	50 - 150
p-Terphenyl	123	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-14
Client Sample ID : SB15-(15.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 12:12

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 22

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	32 U	32
Motor Oil (C24-C40)	130 U	130

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	79	50 - 150
p-Terphenyl	126	50 - 150

RL = Reporting limit.

Comment:

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0203135-15
Client Sample ID : SB15-(20.0)
Matrix : SOIL
Reporting Units : mg/Kg

Date Collected : 3/6/02
Date Received : 3/7/02

Date Extracted : 3/9/02

Date Analyzed : 3/14/02
Time Analyzed : 12:49

Sample Extracted(gm) : 10
Total Extract Volume(ml) : 5
Percent Moisture : 7

Injection Volume (ul) : 1
Dilution Factor : 1

Compound	Result	RL
Diesel (C12-C24)	27 U	27
Motor Oil (C24-C40)	110 U	110

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	89	50 - 150
p-Terphenyl	121	50 - 150

RL = Reporting limit.

Comment:

Sample Results

OSC01

Pesticides/PCBs by Methods
SW8081B/8082A

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB01-(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 10

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-01

Lab File ID: D326213.D

Date Collected: 03/04/02

Date Received: 03/06/02

Date Prepared: 03/08/02

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB03-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-02

Sample wt/vol: 15 (g/ml) g

Lab File ID: D326214.D

% Moisture: 12

Date Collected: 03/04/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.8	U	3.8
72-55-9	4,4'-DDE	3.8	U	3.8
72-20-8	Endrin	3.8	U	3.8
33213-65-9	Endosulfan II	3.8	U	3.8
72-54-8	4,4'-DDD	3.8	U	3.8
1031-07-8	Endosulfan sulfate	3.8	U	3.8
50-29-3	4,4'-DDT	3.8	U	3.8
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.8	U	3.8
53494-70-5	Endrin ketone	3.8	U	3.8
12674-11-2	Aroclor-1016	38	U	38
11104-28-2	Aroclor-1221	75	U	75
11141-16-5	Aroclor-1232	38	U	38
53469-21-9	Aroclor-1242	38	U	38
12672-29-6	Aroclor-1248	38	U	38
11097-69-1	Aroclor-1254	38	U	38
11096-82-5	Aroclor-1260	38	U	38
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB05-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-03

Sample wt/vol: 15 (g/ml) g

Lab File ID: D326215.D

% Moisture: 9

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.6	U	3.6
72-55-9	4,4'-DDE	3.6	U	3.6
72-20-8	Endrin	3.6	U	3.6
33213-65-9	Endosulfan II	3.6	U	3.6
72-54-8	4,4'-DDD	3.6	U	3.6
1031-07-8	Endosulfan sulfate	3.6	U	3.6
50-29-3	4,4'-DDT	3.6	U	3.6
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.6	U	3.6
53494-70-5	Endrin ketone	3.6	U	3.6
12674-11-2	Aroclor-1016	36	U	36
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	36	U	36
53469-21-9	Aroclor-1242	36	U	36
12672-29-6	Aroclor-1248	36	U	36
11097-69-1	Aroclor-1254	36	U	36
11096-82-5	Aroclor-1260	36	U	36
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB05-(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-04

Sample wt/vol. 15 (g/ml) g

Lab File ID: D326216.D

% Moisture: 6

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.5	U	3.5
72-55-9	4,4'-DDE	3.5	U	3.5
72-20-8	Endrin	3.5	U	3.5
33213-65-9	Endosulfan II	3.5	U	3.5
72-54-8	4,4'-DDD	3.5	U	3.5
1031-07-8	Endosulfan sulfate	3.5	U	3.5
50-29-3	4,4'-DDT	3.5	U	3.5
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.5	U	3.5
53494-70-5	Endrin ketone	3.5	U	3.5
12674-11-2	Aroclor-1016	35	U	35
11104-28-2	Aroclor-1221	70	U	70
11141-16-5	Aroclor-1232	35	U	35
53469-21-9	Aroclor-1242	35	U	35
12672-29-6	Aroclor-1248	35	U	35
11097-69-1	Aroclor-1254	35	U	35
11096-82-5	Aroclor-1260	35	U	35
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

RESULT FORM

FormVer 1.0 11/23/96

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB07-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-05

Sample wt/vol: 15 (g/ml) g

Lab File ID: D326217.D

% Moisture: 14

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	2.0	U	2.0
319-85-7	beta-BHC	2.0	U	2.0
319-86-8	delta-BHC	2.0	U	2.0
58-89-9	gamma-BHC (Lindane)	2.0	U	2.0
76-44-8	Heptachlor	2.0	U	2.0
309-00-2	Aldrin	2.0	U	2.0
1024-57-3	Heptachlor epoxide	2.0	U	2.0
5103-74-2	gamma-Chlordane	2.0	U	2.0
5103-71-9	alpha-Chlordane	2.0	U	2.0
959-98-8	Endosulfan I	2.0	U	2.0
60-57-1	Dieldrin	3.8	U	3.8
72-55-9	4,4'-DDE	3.8	U	3.8
72-20-8	Endrin	3.8	U	3.8
33213-65-9	Endosulfan II	3.8	U	3.8
72-54-8	4,4'-DDD	3.8	U	3.8
1031-07-8	Endosulfan sulfate	3.8	U	3.8
50-29-3	4,4'-DDT	3.8	U	3.8
72-43-5	Methoxychlor	20	U	20
7421-93-4	Endrin aldehyde	3.8	U	3.8
53494-70-5	Endrin ketone	3.8	U	3.8
12674-11-2	Aroclor-1016	38	U	38
11104-28-2	Aroclor-1221	77	U	77
11141-16-5	Aroclor-1232	38	U	38
53469-21-9	Aroclor-1242	38	U	38
12672-29-6	Aroclor-1248	38	U	38
11097-69-1	Aroclor-1254	38	U	38
11096-82-5	Aroclor-1260	38	U	38
8001-35-2	Toxaphene	200	U	200

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB08-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-06

Sample wt/vol: 15 (g/ml) g

Lab File ID: D326218.D

% Moisture: 10

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB08-(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-07

Sample wt/vol: 15 (g/ml) g

Lab File ID: D326221.D

% Moisture: 6

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.5	U	3.5
72-55-9	4,4'-DDE	3.5	U	3.5
72-20-8	Endrin	3.5	U	3.5
33213-65-9	Endosulfan II	3.5	U	3.5
72-54-8	4,4'-DDD	3.5	U	3.5
1031-07-8	Endosulfan sulfate	3.5	U	3.5
50-29-3	4,4'-DDT	3.5	U	3.5
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.5	U	3.5
53494-70-5	Endrin ketone	3.5	U	3.5
12674-11-2	Aroclor-1016	35	U	35
11104-28-2	Aroclor-1221	70	U	70
11141-16-5	Aroclor-1232	35	U	35
53469-21-9	Aroclor-1242	35	U	35
12672-29-6	Aroclor-1248	35	U	35
11097-69-1	Aroclor-1254	35	U	35
11096-82-5	Aroclor-1260	35	U	35
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-ORC-RINSATE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) WATER

Lab Sample ID: 0203100-09

Sample wt/vol: 1000 (g/ml) ml

Lab File ID: D326207.D

% Moisture: N/A

Date Collected: 03/05/02

Extraction: SEPF

Date Received: 03/06/02

Concentrated Extract Volume: 10000 (uL)

Date Prepared: 03/08/02

Dilution Factor: 1.0

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q	RL
319-84-6	alpha-BHC	0.050	U	0.050
319-85-7	beta-BHC	0.050	U	0.050
319-86-8	delta-BHC	0.050	U	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.050
76-44-8	Heptachlor	0.050	U	0.050
309-00-2	Aldrin	0.050	U	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.050
959-98-8	Endosulfan I	0.050	U	0.050
60-57-1	Dieldrin	0.10	U	0.10
72-55-9	4,4'-DDE	0.10	U	0.10
72-20-8	Endrin	0.10	U	0.10
33213-65-9	Endosulfan II	0.10	U	0.10
72-54-8	4,4'-DDD	0.10	U	0.10
1031-07-8	Endosulfan sulfate	0.10	U	0.10
50-29-3	4,4'-DDT	0.10	U	0.10
72-43-5	Methoxychlor	0.50	U	0.50
7421-93-4	Endrin aldehyde	0.10	U	0.10
53494-70-5	Endrin ketone	0.10	U	0.10
12674-11-2	Aroclor-1016	1.0	U	1.0
11104-28-2	Aroclor-1221	2.0	U	2.0
11141-16-5	Aroclor-1232	1.0	U	1.0
53469-21-9	Aroclor-1242	1.0	U	1.0
12672-29-6	Aroclor-1248	1.0	U	1.0
11097-69-1	Aroclor-1254	1.0	U	1.0
11096-82-5	Aroclor-1260	1.0	U	1.0
8001-35-2	Toxaphene	5.0	U	5.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB13-(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-01

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401207.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB09-(7.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 13

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-02

Lab File ID: D401208.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	2.0	U	2.0
319-85-7	beta-BHC	2.0	U	2.0
319-86-8	delta-BHC	2.0	U	2.0
58-89-9	gamma-BHC (Lindane)	2.0	U	2.0
76-44-8	Heptachlor	2.0	U	2.0
309-00-2	Aldrin	2.0	U	2.0
1024-57-3	Heptachlor epoxide	2.0	U	2.0
5103-74-2	gamma-Chlordane	2.0	U	2.0
5103-71-9	alpha-Chlordane	2.0	U	2.0
959-98-8	Endosulfan I	2.0	U	2.0
60-57-1	Dieldrin	3.8	U	3.8
72-55-9	4,4'-DDE	3.8	U	3.8
72-20-8	Endrin	3.8	U	3.8
33213-65-9	Endosulfan II	3.8	U	3.8
72-54-8	4,4'-DDD	3.8	U	3.8
1031-07-8	Endosulfan sulfate	3.8	U	3.8
50-29-3	4,4'-DDT	3.8	U	3.8
72-43-5	Methoxychlor	20	U	20
7421-93-4	Endrin aldehyde	3.8	U	3.8
53494-70-5	Endrin ketone	3.8	U	3.8
12674-11-2	Aroclor-1016	38	U	38
11104-28-2	Aroclor-1221	76	U	76
11141-16-5	Aroclor-1232	38	U	38
53469-21-9	Aroclor-1242	38	U	38
12672-29-6	Aroclor-1248	38	U	38
11097-69-1	Aroclor-1254	38	U	38
11096-82-5	Aroclor-1260	38	U	38
8001-35-2	Toxaphene	200	U	200

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB12-(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-03

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401209.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB06-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-04

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401212.D

% Moisture: 15

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	2.0	U	2.0
319-85-7	beta-BHC	2.0	U	2.0
319-86-8	delta-BHC	2.0	U	2.0
58-89-9	gamma-BHC (Lindane)	2.0	U	2.0
76-44-8	Heptachlor	2.0	U	2.0
309-00-2	Aldrin	2.0	U	2.0
1024-57-3	Heptachlor epoxide	2.0	U	2.0
5103-74-2	gamma-Chlordane	2.0	U	2.0
5103-71-9	alpha-Chlordane	2.0	U	2.0
959-98-8	Endosulfan I	2.0	U	2.0
60-57-1	Dieldrin	3.9	U	3.9
72-55-9	4,4'-DDE	3.9	U	3.9
72-20-8	Endrin	3.9	U	3.9
33213-65-9	Endosulfan II	3.9	U	3.9
72-54-8	4,4'-DDD	3.9	U	3.9
1031-07-8	Endosulfan sulfate	3.9	U	3.9
50-29-3	4,4'-DDT	3.9	U	3.9
72-43-5	Methoxychlor	20	U	20
7421-93-4	Endrin aldehyde	3.9	U	3.9
53494-70-5	Endrin ketone	3.9	U	3.9
12674-11-2	Aroclor-1016	39	U	39
11104-28-2	Aroclor-1221	78	U	78
11141-16-5	Aroclor-1232	39	U	39
53469-21-9	Aroclor-1242	39	U	39
12672-29-6	Aroclor-1248	39	U	39
11097-69-1	Aroclor-1254	39	U	39
11096-82-5	Aroclor-1260	39	U	39
8001-35-2	Toxaphene	200	U	200

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB04-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-05

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401213.D

% Moisture: 8

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.6	U	3.6
72-55-9	4,4'-DDE	3.6	U	3.6
72-20-8	Endrin	3.6	U	3.6
33213-65-9	Endosulfan II	3.6	U	3.6
72-54-8	4,4'-DDD	3.6	U	3.6
1031-07-8	Endosulfan sulfate	3.6	U	3.6
50-29-3	4,4'-DDT	3.6	U	3.6
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.6	U	3.6
53494-70-5	Endrin ketone	3.6	U	3.6
12674-11-2	Aroclor-1016	36	U	36
11104-28-2	Aroclor-1221	72	U	72
11141-16-5	Aroclor-1232	36	U	36
53469-21-9	Aroclor-1242	36	U	36
12672-29-6	Aroclor-1248	36	U	36
11097-69-1	Aroclor-1254	36	U	36
11096-82-5	Aroclor-1260	36	U	36
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB02-(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 11

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-06

Lab File ID: D401214.D

Date Collected: 03/05/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	74	U	74
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB02-(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-07

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401218.D

% Moisture: 9

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.6	U	3.6
72-55-9	4,4'-DDE	3.6	U	3.6
72-20-8	Endrin	3.6	U	3.6
33213-65-9	Endosulfan II	3.6	U	3.6
72-54-8	4,4'-DDD	3.6	U	3.6
1031-07-8	Endosulfan sulfate	3.6	U	3.6
50-29-3	4,4'-DDT	3.6	U	3.6
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.6	U	3.6
53494-70-5	Endrin ketone	3.6	U	3.6
12674-11-2	Aroclor 1016	36	U	36
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	36	U	36
53469-21-9	Aroclor-1242	36	U	36
12672-29-6	Aroclor-1248	36	U	36
11097-69-1	Aroclor-1254	36	U	36
11096-82-5	Aroclor-1260	36	U	36
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB10-(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-08

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401219.D

% Moisture: 11

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/01/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	74	U	74
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

RESULT FORM

FormVer 1.0 11/23/96

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB11-(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-09

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401220.D

% Moisture: 12

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.8	U	3.8
72-55-9	4,4'-DDE	3.8	U	3.8
72-20-8	Endrin	3.8	U	3.8
33213-65-9	Endosulfan II	3.8	U	3.8
72-54-8	4,4'-DDD	3.8	U	3.8
1031-07-8	Endosulfan sulfate	3.8	U	3.8
50-29-3	4,4'-DDT	3.8	U	3.8
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.8	U	3.8
53494-70-5	Endrin ketone	3.8	U	3.8
12674-11-2	Aroclor-1016	38	U	38
11104-28-2	Aroclor-1221	75	U	75
11141-16-5	Aroclor-1232	38	U	38
53469-21-9	Aroclor-1242	38	U	38
12672-29-6	Aroclor-1248	38	U	38
11097-69-1	Aroclor-1254	38	U	38
11096-82-5	Aroclor-1260	38	U	38
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(7.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 6

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-10

Lab File ID: D401221 D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.5	U	3.5
72-55-9	4,4'-DDE	3.5	U	3.5
72-20-8	Endrin	3.5	U	3.5
33213-65-9	Endosulfan II	3.5	U	3.5
72-54-8	4,4'-DDD	3.5	U	3.5
1031-07-8	Endosulfan sulfate	3.5	U	3.5
50-29-3	4,4'-DDT	3.5	U	3.5
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.5	U	3.5
53494-70-5	Endrin ketone	3.5	U	3.5
12674-11-2	Aroclor-1016	35	U	35
11104-28-2	Aroclor-1221	70	U	70
11141-16-5	Aroclor-1232	35	U	35
53469-21-9	Aroclor-1242	35	U	35
12672-29-6	Aroclor-1248	35	U	35
11097-69-1	Aroclor-1254	35	U	35
11096-82-5	Aroclor-1260	35	U	35
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-11

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401222.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.9	U	1.9
319-85-7	beta-BHC	1.9	U	1.9
319-86-8	delta-BHC	1.9	U	1.9
58-89-9	gamma-BHC (Lindane)	1.9	U	1.9
76-44-8	Heptachlor	1.9	U	1.9
309-00-2	Aldrin	1.9	U	1.9
1024-57-3	Heptachlor epoxide	1.9	U	1.9
5103-74-2	gamma-Chlordane	1.9	U	1.9
5103-71-9	alpha-Chlordane	1.9	U	1.9
959-98-8	Endosulfan I	1.9	U	1.9
60-57-1	Dieldrin	3.7	U	3.7
72-55-9	4,4'-DDE	3.7	U	3.7
72-20-8	Endrin	3.7	U	3.7
33213-65-9	Endosulfan II	3.7	U	3.7
72-54-8	4,4'-DDD	3.7	U	3.7
1031-07-8	Endosulfan sulfate	3.7	U	3.7
50-29-3	4,4'-DDT	3.7	U	3.7
72-43-5	Methoxychlor	19	U	19
7421-93-4	Endrin aldehyde	3.7	U	3.7
53494-70-5	Endrin ketone	3.7	U	3.7
12674-11-2	Aroclor-1016	37	U	37
11104-28-2	Aroclor-1221	73	U	73
11141-16-5	Aroclor-1232	37	U	37
53469-21-9	Aroclor-1242	37	U	37
12672-29-6	Aroclor-1248	37	U	37
11097-69-1	Aroclor-1254	37	U	37
11096-82-5	Aroclor-1260	37	U	37
8001-35-2	Toxaphene	190	U	190

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401223.D

% Moisture: 14

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	2.0	U	2.0
319-85-7	beta-BHC	2.0	U	2.0
319-86-8	delta-BHC	2.0	U	2.0
58-89-9	gamma-BHC (Lindane)	2.0	U	2.0
76-44-8	Heptachlor	2.0	U	2.0
309-00-2	Aldrin	2.0	U	2.0
1024-57-3	Heptachlor epoxide	2.0	U	2.0
5103-74-2	gamma-Chlordane	2.0	U	2.0
5103-71-9	alpha-Chlordane	2.0	U	2.0
959-98-8	Endosulfan I	2.0	U	2.0
60-57-1	Dieldrin	3.8	U	3.8
72-55-9	4,4'-DDE	3.8	U	3.8
72-20-8	Endrin	3.8	U	3.8
33213-65-9	Endosulfan II	3.8	U	3.8
72-54-8	4,4'-DDD	3.8	U	3.8
1031-07-8	Endosulfan sulfate	3.8	U	3.8
50-29-3	4,4'-DDT	3.8	U	3.8
72-43-5	Methoxychlor	20	U	20
7421-93-4	Endrin aldehyde	3.8	U	3.8
53494-70-5	Endrin ketone	3.8	U	3.8
12674-11-2	Aroclor-1016	38	U	38
11104-28-2	Aroclor-1221	77	U	77
11141-16-5	Aroclor-1232	38	U	38
53469-21-9	Aroclor-1242	38	U	38
12672-29-6	Aroclor-1248	38	U	38
11097-69-1	Aroclor-1254	38	U	38
11096-82-5	Aroclor-1260	38	U	38
8001-35-2	Toxaphene	200	U	200

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401224.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.5	U	3.5
72-55-9	4,4'-DDE	3.5	U	3.5
72-20-8	Endrin	3.5	U	3.5
33213-65-9	Endosulfan II	3.5	U	3.5
72-54-8	4,4'-DDD	3.5	U	3.5
1031-07-8	Endosulfan sulfate	3.5	U	3.5
50-29-3	4,4'-DDT	3.5	U	3.5
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.5	U	3.5
53494-70-5	Endrin ketone	3.5	U	3.5
12674-11-2	Aroclor-1016	35	U	35
11104-28-2	Aroclor-1221	71	U	71
11141-16-5	Aroclor-1232	35	U	35
53469-21-9	Aroclor-1242	35	U	35
12672-29-6	Aroclor-1248	35	U	35
11097-69-1	Aroclor-1254	35	U	35
11096-82-5	Aroclor-1260	35	U	35
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 22

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-14

Lab File ID: D401225.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	2.2	U	2.2
319-85-7	beta-BHC	2.2	U	2.2
319-86-8	delta-BHC	2.2	U	2.2
58-89-9	gamma-BHC (Lindane)	2.2	U	2.2
76-44-8	Heptachlor	2.2	U	2.2
309-00-2	Aldrin	2.2	U	2.2
1024-57-3	Heptachlor epoxide	2.2	U	2.2
5103-74-2	gamma-Chlordane	2.2	U	2.2
5103-71-9	alpha-Chlordane	2.2	U	2.2
959-98-8	Endosulfan I	2.2	U	2.2
60-57-1	Dieldrin	4.2	U	4.2
72-55-9	4,4'-DDE	4.2	U	4.2
72-20-8	Endrin	4.2	U	4.2
33213-65-9	Endosulfan II	4.2	U	4.2
72-54-8	4,4'-DDD	4.2	U	4.2
1031-07-8	Endosulfan sulfate	4.2	U	4.2
50-29-3	4,4'-DDT	4.2	U	4.2
72-43-5	Methoxychlor	22	U	22
7421-93-4	Endrin aldehyde	4.2	U	4.2
53494-70-5	Endrin ketone	4.2	U	4.2
12674-11-2	Aroclor-1016	42	U	42
11104-28-2	Aroclor-1221	85	U	85
11141-16-5	Aroclor-1232	42	U	42
53469-21-9	Aroclor-1242	42	U	42
12672-29-6	Aroclor-1248	42	U	42
11097-69-1	Aroclor-1254	42	U	42
11096-82-5	Aroclor-1260	42	U	42
8001-35-2	Toxaphene	220	U	220

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) g

Lab File ID: D401226.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 04/02/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
319-84-6	alpha-BHC	1.8	U	1.8
319-85-7	beta-BHC	1.8	U	1.8
319-86-8	delta-BHC	1.8	U	1.8
58-89-9	gamma-BHC (Lindane)	1.8	U	1.8
76-44-8	Heptachlor	1.8	U	1.8
309-00-2	Aldrin	1.8	U	1.8
1024-57-3	Heptachlor epoxide	1.8	U	1.8
5103-74-2	gamma-Chlordane	1.8	U	1.8
5103-71-9	alpha-Chlordane	1.8	U	1.8
959-98-8	Endosulfan I	1.8	U	1.8
60-57-1	Dieldrin	3.5	U	3.5
72-55-9	4,4'-DDE	3.5	U	3.5
72-20-8	Endrin	3.5	U	3.5
33213-65-9	Endosulfan II	3.5	U	3.5
72-54-8	4,4'-DDD	3.5	U	3.5
1031-07-8	Endosulfan sulfate	3.5	U	3.5
50-29-3	4,4'-DDT	3.5	U	3.5
72-43-5	Methoxychlor	18	U	18
7421-93-4	Endrin aldehyde	3.5	U	3.5
53494-70-5	Endrin ketone	3.5	U	3.5
12674-11-2	Aroclor-1016	35	U	35
11104-28-2	Aroclor-1221	71	U	71
11141-16-5	Aroclor-1232	35	U	35
53469-21-9	Aroclor-1242	35	U	35
12672-29-6	Aroclor-1248	35	U	35
11097-69-1	Aroclor-1254	35	U	35
11096-82-5	Aroclor-1260	35	U	35
8001-35-2	Toxaphene	180	U	180

RL = Reporting Limit

Sample Results

OSC01

0203100, 0203135

Herbicides by Method SW8151A

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB01(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 10

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-01

Lab File ID: M326216.D

Date Collected: 03/04/02

Date Received: 03/06/02

Date Prepared: 03/11/02

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB03(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 12

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-02

Lab File ID. M326217.D

Date Collected: 03/04/02

Date Received: 03/06/02

Date Prepared: 03/11/02

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB03(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-02RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405239.D

% Moisture: 12

Date Collected: 03/04/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120 36 5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93 76 5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB05(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-03

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326218.D

% Moisture: 9

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4 DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB05(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-03RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405240.D

% Moisture: 9

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB05(20.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 6

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-04

Lab File ID: M326219.D

Date Collected: 03/05/02

Date Received: 03/06/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.8	U	2.8
120-36-5	Dichlorprop	2.8	U	2.8
94-75-7	2,4-D	2.8	U	2.8
93-72-1	2,4,5-TP	2.8	U	2.8
93-76-5	2,4,5-T	2.8	U	2.8
94-82-6	2,4-DB	2.8	U	2.8
88-85-7	Dinoseb	2.8	U	2.8

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB05(20.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-04RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405241.D

% Moisture: 6

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.8	U	2.8
120-36-5	Dichlorprop	2.8	U	2.8
94-75-7	2,4-D	2.8	U	2.8
93-72-1	2,4,5-TP	2.8	U	2.8
93-76-5	2,4,5-T	2.8	U	2.8
94-82-6	2,4-DB	2.8	U	2.8
88-85-7	Dinoseb	2.8	U	2.8

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB07(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-05

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326220.D

% Moisture: 14

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-02-0	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB07(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-05RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405242.D

% Moisture: 14

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB08(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-06

Sample wt/vol. 15 (g/ml) g

Lab File ID. M326221.D

% Moisture: 10

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

RESULT FORM

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ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB08(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-06RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405243.D

% Moisture: 10

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB08(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-07

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326226.D

% Moisture: 6

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.8	U	2.8
120-36-5	Dichlorprop	2.8	U	2.8
94-75-7	2,4-D	2.8	U	2.8
93-72-1	2,4,5-TP	2.8	U	2.8
93-76-5	2,4,5-T	2.8	U	2.8
94-82-6	2,4-DB	2.8	U	2.8
88-85-7	Dinoseb	2.8	U	2.8

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB08(20.0)RE

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 6

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-07RE

Lab File ID: M405247.D

Date Collected: 03/05/02

Date Received: 03/06/02

Date Prepared: 04/03/02

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.8	U	2.8
120-36-5	Dichlorprop	2.8	U	2.8
94-75-7	2,4-D	2.8	U	2.8
93-72-1	2,4,5-TP	2.8	U	2.8
93-76-5	2,4,5 T	2.8	U	2.8
94-82-6	2,4-DB	2.8	U	2.8
88-85-7	Dinoseb	2.8	U	2.8

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159ORCRINSATE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) WATER

Lab Sample ID: 0203100-09

Sample wt/vol: 50 (g/ml) ml

Lab File ID: M326209.D

% Moisture: N/A

Date Collected: 03/05/02

Extraction: SEPF

Date Received: 03/06/02

Concentrated Extract Volume: 500 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 03/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q	RL
1918-00-9	Dicamba	0.080	U	0.080
120-36-5	Dichlorprop	0.080	U	0.080
94-75-7	2,4-D	0.080	U	0.080
93-72-1	2,4,5-TP	0.080	U	0.080
93-76-5	2,4,5-T	0.080	U	0.080
94-82-6	2,4-DB	0.080	U	0.080
88-85-7	Dinoseb	0.080	U	0.080

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB13(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-01

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326229.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB13(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-01RE

Sample wt/vol. 15 (g/ml) g

Lab File ID: M405250.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB09(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-02

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326230.D

% Moisture: 13

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB09(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-02RE

Sample wt/vol. 15 (g/ml) g

Lab File ID: M405251.D

% Moisture: 13

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB12(7.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 10

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-03

Lab File ID: M326231.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB12(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-03RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405252.D

% Moisture: 10

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB06(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 15

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-04

Lab File ID: M326236.D

Date Collected: 03/05/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB06(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-04RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405255.D

% Moisture: 15

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB04(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-05

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326237.D

% Moisture: 8

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

RESULT FORM

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ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB04(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-05RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405256.D

% Moisture: 8

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB02(15.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-06

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326238.D

% Moisture: 11

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB02(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-06RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405258.D

% Moisture: 11

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB02(20.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 9

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-07

Lab File ID: M326239.D

Date Collected: 03/05/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

RESULT FORM

FormVer 1.0 11/23/96

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB02(20.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-07RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405259.D

% Moisture: 9

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB10(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-08

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326240.D

% Moisture: 11

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB10(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-08RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405260.D

% Moisture: 11

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB11(7.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 12

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-09

Lab File ID: M326241.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB11(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-09RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405261.D

% Moisture: 12

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB14(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-10

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326242.D

% Moisture: 6

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.8	U	2.8
120-36-5	Dichlorprop	2.8	U	2.8
94-75-7	2,4-D	2.8	U	2.8
93-72-1	2,4,5-TP	2.8	U	2.8
93-76-5	2,4,5-T	2.8	U	2.8
94-82-6	2,4-DB	2.8	U	2.8
88-85-7	Dinoseb	2.8	U	2.8

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB14(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 10

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-11

Lab File ID: M326243.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.0	U	3.0
120-36-5	Dichlorprop	3.0	U	3.0
94-75-7	2,4-D	3.0	U	3.0
93-72-1	2,4,5-TP	3.0	U	3.0
93-76-5	2,4,5-T	3.0	U	3.0
94-82-6	2,4-DB	3.0	U	3.0
88-85-7	Dinoseb	3.0	U	3.0

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB14(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-12

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326244.D

% Moisture: 14

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB14(20.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-12RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405264.D

% Moisture: 14

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.1	U	3.1
120-36-5	Dichlorprop	3.1	U	3.1
94-75-7	2,4-D	3.1	U	3.1
93-72-1	2,4,5-TP	3.1	U	3.1
93-76-5	2,4,5-T	3.1	U	3.1
94-82-6	2,4-DB	3.1	U	3.1
88-85-7	Dinoseb	3.1	U	3.1

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(7.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-13

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326247.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(7.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-13RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405265.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(15.0)

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) SOIL

Sample wt/vol: 15 (g/ml) g

% Moisture: 22

Extraction: SONC

Concentrated Extract Volume: 5000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-14

Lab File ID: M326248.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/11/02

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.4	U	3.4
120-36-5	Dichlorprop	3.4	U	3.4
94-75-7	2,4-D	3.4	U	3.4
93-72-1	2,4,5-TP	3.4	U	3.4
93-76-5	2,4,5-T	3.4	U	3.4
94-82-6	2,4-DB	3.4	U	3.4
88-85-7	Dinoseb	3.4	U	3.4

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(15.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-14RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405266.D

% Moisture: 22

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	3.4	U	3.4
120-36-5	Dichlorprop	3.4	U	3.4
94-75-7	2,4-D	3.4	U	3.4
93-72-1	2,4,5-TP	3.4	U	3.4
93-76-5	2,4,5-T	3.4	U	3.4
94-82-6	2,4-DB	3.4	U	3.4
88-85-7	Dinoseb	3.4	U	3.4

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(20.0)

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-15

Sample wt/vol: 15 (g/ml) g

Lab File ID: M326249.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 03/11/02

Dilution Factor: 1.0

Date Analyzed: 03/27/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159SB15(20.0)RE

Lab Name: LAUCKS TESTING LABS

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-15RE

Sample wt/vol: 15 (g/ml) g

Lab File ID: M405267.D

% Moisture: 7

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 5000 (uL)

Date Prepared: 04/03/02

Dilution Factor: 1.0

Date Analyzed: 04/07/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/kg	Q	RL
1918-00-9	Dicamba	2.9	U	2.9
120-36-5	Dichlorprop	2.9	U	2.9
94-75-7	2,4-D	2.9	U	2.9
93-72-1	2,4,5-TP	2.9	U	2.9
93-76-5	2,4,5-T	2.9	U	2.9
94-82-6	2,4-DB	2.9	U	2.9
88-85-7	Dinoseb	2.9	U	2.9

RL = Reporting Limit

Metals Data

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: LAUCKS Testing Laboratories, I Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

SOW No.: SW-846

EPA Sample No.	Lab Sample ID.
0159-SB01-(15.0)	0203100-01
0159-SB03-(15.0)	0203100-02
0159-SB05-(15.0)	0203100-03
0159-SB05-(20.0)	0203100-04
0159-SB07-(15.0)	0203100-05
0159-SB08-(15.0)	0203100-06
0159-SB08-(15.0)D	0203100-06D
0159-SB08-(15.0)S	0203100-06S
0159-SB08-(20.0)	0203100-07
0159-ORC-RINSATE	0203100-09
0159-ORC-RINSATED	0203100-09D
0159-ORC-RINSATES	0203100-09S
0159-SB13-(7.0)	0203135-01
0159-SB09-(7.0)	0203135-02
0159-SB12-(7.0)	0203135-03
0159-SB12-(7.0)D	0203135-03D
0159-SB12-(7.0)S	0203135-03S
0159-SB06-(15.0)	0203135-04
0159-SB04-(15.0)	0203135-05
0159-SB02-(15.0)	0203135-06

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joan Phillips Name: JOAN PHILLIPS

Date: 4/9/02 Title: INORGANICS SUPERVISOR

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USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: LAUCKS Testing Laboratories, I Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

SOW No.: SW-846

EPA Sample No.	Lab Sample ID.
0159-SB02-(20.0)	0203135-07
0159-SB10-(7.0)	0203135-08
0159-SB11-(7.0)	0203135-09
0159-SB14-(7.0)	0203135-10
0159-SB14-(15.0)	0203135-11
0159-SB14-(20.0)	0203135-12
0159-SB15-(7.0)	0203135-13
0159-SB15-(15.0)	0203135-14
0159-SB15-(20.0)	0203135-15

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: JOAN PHILLIPS

Date: 4/9/02 Title: INORGANICS SUPERVISOR 2226

Inorganics Analysis Data Sheets

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB01-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-01

Level (low/med): LOW Date Received: 3/6/02

% Solids: 89.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	153			P
7440-43-9	Cadmium	4.4	U		P
7440-47-3	Chromium	19.7		N	P
7440-50-8	Copper	12.7			P
7439-92-1	Lead	10.2			P
7439-95-4	Magnesium	10200			P
7439-96-5	Manganese	353			P
7782-49-2	Selenium	0.87	U		P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.047	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2228

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159 SB03 (15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-02

Level (low/med): LOW Date Received: 3/6/02

% Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	169			P
7440-43-9	Cadmium	4.5	U		P
7440-47-3	Chromium	25.7		N	P
7440-50-8	Copper	14.5			P
7439-92-1	Lead	11.0			P
7439-95-4	Magnesium	11000			P
7439-96-5	Manganese	389			P
7782-49-2	Selenium	0.90	U		P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.045	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2229

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB05-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-03

Level (low/med): LOW Date Received: 3/6/02

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	219			P
7440-43-9	Cadmium	4.2	U		P
7440-47-3	Chromium	26.7		N	P
7440-50-8	Copper	13.3			P
7439-92-1	Lead	10.7			P
7439-95-4	Magnesium	9610			P
7439-96-5	Manganese	394			P
7782-49-2	Selenium	0.83	U		P
7440-22-4	Silver	0.08	U		P
7439-97-6	Mercury	0.045	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2230

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB05-(20.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-04

Level (low/med): LOW Date Received: 3/6/02

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	237			P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	17.4		N	P
7440-50-8	Copper	9.8			P
7439-92-1	Lead	9.3			P
7439-95-4	Magnesium	7790			P
7439-96-5	Manganese	327			P
7782-49-2	Selenium	0.85	U		P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.045	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2231

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB07-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-05

Level (low/med): LOW Date Received: 3/6/02

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4			P
7440-39-3	Barium	190			P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	23.8		N	P
7440-50-8	Copper	13.1			P
7439-92-1	Lead	9.7			P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	296			P
7782-49-2	Selenium	0.87	U		P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.043	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2232

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB08-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-06

Level (low/med): LOW Date Received: 3/6/02

% Solids: 89.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	148			P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	20.8		N	P
7440-50-8	Copper	13.1			P
7439-92-1	Lead	10.0			P
7439-95-4	Magnesium	10000			P
7439-96-5	Manganese	320			P
7782-49-2	Selenium	0.86	U		P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.046	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2233

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB08-(20.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203100-07

Level (low/med): LOW Date Received: 3/6/02

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	336			P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	13.7		N	P
7440-50-8	Copper	7.6			P
7439-92-1	Lead	7.8			P
7439-95-4	Magnesium	6500			P
7439-96-5	Manganese	255			P
7782-49-2	Selenium	0.81	U		P
7440-22-4	Silver	0.08	U		P
7439-97-6	Mercury	0.040	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2234

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-ORC-RINSATE

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): WATER Lab Sample ID: 0203100-09

Level (low/med): LOW Date Received: 3/6/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	2.1			P
7440-43-9	Cadmium	50.0	U		P
7440-47-3	Chromium	5.0	U		P
7440-50-8	Copper	3.1			P
7439-92-1	Lead	10.0	U		P
7439-95-4	Magnesium	200	U		P
7439-96-5	Manganese	20.0	U		P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	1.0	U		P
7439-97-6	Mercury	0.20	U		CV

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments: _____

2235

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB13-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-01

Level (low/med): LOW Date Received: 3/7/02

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	221		N*	P
7440-43-9	Cadmium	4.4	U		P
7440-47-3	Chromium	23.9			P
7440-50-8	Copper	12.3			P
7439-92-1	Lead	9.6			P
7439-95-4	Magnesium	8430		E	P
7439-96-5	Manganese	394			P
7782-49-2	Selenium	0.87	U	N	P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.035	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2236

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB09-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-02

Level (low/med): LOW Date Received: 3/7/02

% Solids: 87.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	317		N*	P
7440-43-9	Cadmium	4.6	U		P
7440-47-3	Chromium	25.9			P
7440-50-8	Copper	12.4			P
7439-92-1	Lead	9.6			P
7439-95-4	Magnesium	8310		E	P
7439-96-5	Manganese	335			P
7782-49-2	Selenium	0.91	U	N	P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.043	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2257

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB12-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-03

Level (low/med): LOW Date Received: 3/7/02

% Solids: 90.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.5			P
7440-39-3	Barium	177		N*	P
7440-43-9	Cadmium	4.1	U		P
7440-47-3	Chromium	18.9			P
7440-50-8	Copper	8.5			P
7439-92-1	Lead	7.3			P
7439-95-4	Magnesium	6170		E	P
7439-96-5	Manganese	248			P
7782-49-2	Selenium	0.82	U	N	P
7440-22-4	Silver	0.08	U		P
7439-97-6	Mercury	0.042	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2238

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB06-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-04

Level (low/med): LOW Date Received: 3/7/02

% Solids: 85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	129		N*	P
7440-43-9	Cadmium	4.7	U		P
7440-47-3	Chromium	19.9			P
7440-50-8	Copper	11.3			P
7439-92-1	Lead	8.9			P
7439-95-4	Magnesium	9370		E	P
7439-96-5	Manganese	290			P
7782-49-2	Selenium	0.94	U	N	P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.045	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2239

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB04-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-05

Level (low/med): LOW Date Received: 3/7/02

% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.5			P
7440-39-3	Barium	296		N*	P
7440-43-9	Cadmium	4.4	U		P
7440-47-3	Chromium	23.3			P
7440-50-8	Copper	11.4			P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	8440		E	P
7439-96-5	Manganese	374			P
7782-49-2	Selenium	0.89	U	N	P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.041	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2240

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB02-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-06

Level (low/med): LOW Date Received: 3/7/02

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	304		N*	P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	32.8			P
7440-50-8	Copper	17.5			P
7439-92-1	Lead	12.3			P
7439-95-4	Magnesium	12900		E	P
7439-96-5	Manganese	391			P
7782-49-2	Selenium	0.85	U	N	P
7440-22-4	Silver	0.09	U		P
7439-97-6	Mercury	0.042	U		CV

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2241

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB02-(20.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-07

Level (low/med): LOW Date Received: 3/7/02

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	255		N*	P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	17.9			P
7440-50-8	Copper	11.1			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	9900		E	P
7439-96-5	Manganese	283			P
7782-49-2	Selenium	0.85	U	N	P
7439-97-6	Mercury	0.047	U		CV
7440-22-4	Silver	0.08	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2242

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB10-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-08

Level (low/med): LOW Date Received: 3/7/02

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	154		N*	P
7440-43-9	Cadmium	4.8	U		P
7440-47-3	Chromium	26.2			P
7440-50-8	Copper	11.1			P
7439-92-1	Lead	9.5			P
7439-95-4	Magnesium	9260		E	P
7439-96-5	Manganese	350			P
7782-49-2	Selenium	0.95	U	N	P
7439-97-6	Mercury	0.043	U		CV
7440-22-4	Silver	0.10	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2243

USEPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB11-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-09

Level (low/med): LOW Date Received: 3/7/02

% Solids: 88.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	137		N*	P
7440-43-9	Cadmium	4.6	U		P
7440-47-3	Chromium	22.2			P
7440-50-8	Copper	10.6			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	7200		E	P
7439-96-5	Manganese	315			P
7782-49-2	Selenium	0.92	U	N	P
7439-97-6	Mercury	0.040	U		CV
7440-22-4	Silver	0.09	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2244

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB14-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-10

Level (low/med): LOW Date Received: 3/7/02

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	361		N*	P
7440-43-9	Cadmium	4.1	U		P
7440-47-3	Chromium	21.2			P
7440-50-8	Copper	10.5			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	7730		E	P
7439-96-5	Manganese	296			P
7782-49-2	Selenium	0.82	U	N	P
7439-97-6	Mercury	0.037	U		CV
7440-22-4	Silver	0.08	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2245

USEPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB14-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-11

Level (low/med): LOW Date Received: 3/7/02

% Solids: 90.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	215		N*	P
7440-43-9	Cadmium	4.2	U		P
7440-47-3	Chromium	30.0			P
7440-50-8	Copper	15.3			P
7439-92-1	Lead	11.0			P
7439-95-4	Magnesium	10200		E	P
7439-96-5	Manganese	407			P
7782-49-2	Selenium	0.84		N	P
7439-97-6	Mercury	0.044	U		CV
7440-22-4	Silver	0.08	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2246

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB14-(20.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-12

Level (low/med): LOW Date Received: 3/7/02

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	327		N*	P
7440-43-9	Cadmium	4.4	U		P
7440-47-3	Chromium	27.5			P
7440-50-8	Copper	12.8			P
7439-92-1	Lead	9.3			P
7439-95-4	Magnesium	10200		E	P
7439-96-5	Manganese	292			P
7782-49-2	Selenium	0.88	U	N	P
7439-97-6	Mercury	0.043	U		CV
7440-22-4	Silver	0.09	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2247

USEPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB15-(7.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-13

Level (low/med): LOW Date Received: 3/7/02

% Solids: 92.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.7			P
7440-39-3	Barium	147		N*	P
7440-43-9	Cadmium	4.3	U		P
7440-47-3	Chromium	19.1			P
7440-50-8	Copper	10.0			P
7439-92-1	Lead	8.2			P
7439-95-4	Magnesium	6640		E	P
7439-96-5	Manganese	516			P
7782-49-2	Selenium	0.86	U	N	P
7439-97-6	Mercury	0.044	U		CV
7440-22-4	Silver	0.09	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2248

Form I - IN

SW-846

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB15-(15.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-14

Level (low/med): LOW Date Received: 3/7/02

% Solids: 77.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.4			P
7440-39-3	Barium	244		N*	P
7440-43-9	Cadmium	5.1	U		P
7440-47-3	Chromium	37.2			P
7440-50-8	Copper	21.4			P
7439-92-1	Lead	14.1			P
7439-95-4	Magnesium	14800		E	P
7439-96-5	Manganese	577			P
7782-49-2	Selenium	1.0	U	N	P
7439-97-6	Mercury	0.048	U		CV
7440-22-4	Silver	0.10	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2249

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB15-(20.0)

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC01

Matrix (soil/water): SOIL Lab Sample ID: 0203135-15

Level (low/med): LOW Date Received: 3/7/02

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight). MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0			P
7440-39-3	Barium	242		N*	P
7440-43-9	Cadmium	4.1	U		P
7440-47-3	Chromium	15.9			P
7440-50-8	Copper	9.7			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	7860		E	P
7439-96-5	Manganese	311			P
7782-49-2	Selenium	0.81	U	N	P
7439-97-6	Mercury	0.044	U		CV
7440-22-4	Silver	0.08	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Brown Clarity After: Artifacts:

Comments:

2250

Miscellaneous Inorganics Data

COVER PAGE - MICROBIOLOGICAL ANALYSES DATA PACKAGE

Lab Name: LAUCKS TESTING LABS, INC.

Lab Code: LAUCKS SDG No: OSC01

Client Sample Identification	Lab Sample Identification
0159-SB01-(15.0)	0203100-01
0159-SB03-(15.0)	0203100-02
0159-SB05-(15.0)	0203100-03
0159-SB05-(20.0)	0203100-04
0159-SB07-(15.0)	0203100-05
0159-SB08-(15.0)	0203100-06
0159-SB08-(20.0)	0203100-07
0159-ORC-RINSATE	0203100-09
0159-SB13-(7.0)	0203135-01
0159-SB09-(7.0)	0203135-02
0159-SB12-(7.0)	0203135-03
0159-SB06-(15.0)	0203135-04
0159-SB04-(15.0)	0203135-05
0159-SB02-(15.0)	0203135-06
0159-SB02-(20.0)	0203135-07
0159-SB10-(7.0)	0203135-08
0159-SB11-(7.0)	0203135-09
0159-SB14-(7.0)	0203135-10
0159-SB14-(15.0)	0203135-11
0159-SB14-(20.0)	0203135-12
0159-SB15-(7.0)	0203135-13
0159 SB15 (15.0)	0203135-14
0159-SB15-(20.0)	0203135-15

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joan Phillips Name: JOAN PHILLIPS

Date: April 10, 2002 Title: INORGANICS SUPERVISOR

Inorganics Analysis Data Sheets

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB01-(15.0)
Lab Sample ID: 0203100-01
Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/25/02	0.044	EPA 314.0
Total Phosphorus as P	1600.		mg/kg DB	03/19/02	03/19/02	110.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB03-(15.0)
Lab Sample ID: 0203100-02
Date Received: 03/06/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.045 U	mg/kg DB	03/15/02	03/25/02	0.045	EPA 314.0
Total Phosphorus as P	1800.	mg/kg DB	03/19/02	03/19/02	110.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB05-(15.0)
SDG No. : OSC01 Lab Sample ID: 0203100-03
Matrix : SOIL Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/25/02	0.044	EPA 314.0
Total Phosphorus as P	1600.		mg/kg DB	03/19/02	03/19/02	91.	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB05-(20.0)
Lab Sample ID: 0203100-04
Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.043	U	mg/kg DB	03/15/02	03/25/02	0.043	EPA 314.0
Total Phosphorus as P	1100.		mg/kg DB	03/19/02	03/19/02	80.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB07-(15.0)
SDG No. : OSC01 Lab Sample ID: 0203100-05
Matrix : SOIL Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.046	U	mg/kg DB	03/15/02	03/25/02	0.046	EPA 314.0
Total Phosphorus as P	1600.		mg/kg DB	03/19/02	03/19/02	88.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB08-(15.0)
Lab Sample ID: 0203100-06
Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.046	U	mg/kg DB	03/15/02	03/25/02	0.046	EPA 314.0
Total Phosphorus as P	1600.		mg/kg DB	03/19/02	03/19/02	180.	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB08-(20.0)
Lab Sample ID: 0203100-07
Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.040	U	mg/kg DB	03/15/02	03/25/02	0.040	EPA 314.0
Total Phosphorus as P	1800.		mg/kg DB	03/19/02	03/19/02	74.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : WATER

Sample ID : 0159-ORC-RINSATE
Lab Sample ID: 0203100-09
Date Received: 03/06/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	4.	U	ug/L	03/18/02	03/18/02	4.	EPA 314.0
Total Phosphorus as P	0.02	U	mg/L	03/18/02	03/18/02	0.02	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB13-(7.0)
SDG No. : OSC01 Lab Sample ID: 0203135-01
Matrix : SOIL Date Received. 03/07/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044 U	mg/kg DB	03/15/02	03/25/02	0.044	EPA 314.0
Total Phosphorus as P	990.	mg/kg DB	03/19/02	03/19/02	89.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB09-(7.0)
Lab Sample ID: 0203135-02
Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.045	U	mg/kg DB	03/15/02	03/25/02	0.045	EPA 314.0
Total Phosphorus as P	1700.		mg/kg DB	03/19/02	03/19/02	100.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB12-(7.0)
SDG No. : OSC01 Lab Sample ID: 0203135-03
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.045	U	mg/kg DB	03/15/02	03/25/02	0.045	EPA 314.0
Total Phosphorus as P	340.		mg/kg DB	03/22/02	03/22/02	95.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB06-(15.0)
SDG No. : OSC01 Lab Sample ID: 0203135-04
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.047	U	mg/kg DB	03/15/02	03/25/02	0.047	EPA 314.0
Total Phosphorus as P	1800.		mg/kg DB	03/19/02	03/19/02	120.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB04-(15.0)
Lab Sample ID: 0203135-05
Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/20/02	0.044	EPA 314.0
Total Phosphorus as P	1600		mg/kg DB	03/19/02	03/19/02	98.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB02-(15.0)
SDG No. : OSC01 Lab Sample ID: 0203135-06
Matrix : SOIL Date Received: 03/07/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.045 U	mg/kg DB	03/15/02	03/25/02	0.045	EPA 314.0
Total Phosphorus as P	1700.	mg/kg DB	03/19/02	03/19/02	90.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB02-(20.0)
SDG No. : OSC01 Lab Sample ID: 0203135-07
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/18/02	0.044	EPA 314.0
Total Phosphorus as P	1700.		mg/kg DB	03/19/02	03/19/02	85.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB10-(7.0)
Lab Sample ID: 0203135-08
Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/18/02	0.044	EPA 314.0
Total Phosphorus as P	1500.		mg/kg DB	03/19/02	03/19/02	83.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB11-(7.0)
SDG No. : OSC01 Lab Sample ID: 0203135-09
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.045	U	mg/kg DB	03/15/02	03/18/02	0.045	EPA 314.0
Total Phosphorus as P	1600.		mg/kg DB	03/19/02	03/19/02	110.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB14-(7.0)
Lab Sample ID: 0203135-10
Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044	U	mg/kg DB	03/15/02	03/18/02	0.044	EPA 314.0
Total Phosphorus as P	2400.		mg/kg DB	03/19/02	03/19/02	180.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB14-(15.0)
Lab Sample ID: 0203135-11
Date Received: 03/07/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044 U	mg/kg DB	03/15/02	03/18/02	0.044	EPA 314.0
Total Phosphorus as P	450.	mg/kg DB	03/22/02	03/22/02	99.	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB14-(20.0)
SDG No. : OSC01 Lab Sample ID: 0203135-12
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.048	U	mg/kg DB	03/15/02	03/18/02	0.048	EPA 314.0
Total Phosphorus as P	430.		mg/kg DB	03/22/02	03/22/02	79.	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB15-(7.0)
SDG No. : OSC01 Lab Sample ID: 0203135-13
Matrix : SOIL Date Received: 03/07/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.044 U	mg/kg DB	03/15/02	03/18/02	0.044	EPA 314.0
Total Phosphorus as P	360.	mg/kg DB	03/22/02	03/22/02	88.	EPA 365 2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs Sample ID : 0159-SB15-(15.0)
SDG No. : OSC01 Lab Sample ID: 0203135-14
Matrix : SOIL Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.051	U	mg/kg DB	03/15/02	03/18/02	0.051	EPA 314.0
Total Phosphorus as P	750.		mg/kg DB	03/22/02	03/22/02	100.	EPA 365.2

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC01
Matrix : SOIL

Sample ID : 0159-SB15-(20.0)
Lab Sample ID: 0203135-15
Date Received: 03/07/02

Analyte	Result		Units	Prepped	Analyzed	Limit	Method
Perchlorate EPA 314.0	0.043	U	mg/kg DB	03/15/02	03/18/02	0.043	EPA 314.0
Total Phosphorus as P	360.		mg/kg DB	03/22/02	03/22/02	90.	EPA 365.2

Sample Results

OSC01

0203100, 0203135

Ordnance by Method 8330

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB01-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-01

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3403252.D

% Moisture: 0

Date Collected: 03/04/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB03-(15.0)

Lab Name: LAUCKS TESTING LAB

Matrix: (soil/water) SOIL

Sample wt/vol: 2 (g/ml) g

% Moisture: 0

Extraction: SONC

Concentrated Extract Volume: 20000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-02

Lab File ID: 3403253.D

Date Collected: 03/04/02

Date Received: 03/06/02

Date Prepared: 03/12/02

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB05-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-03

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3403254.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB05-(20.0)

Lab Name: LAUCKS TESTING LAB

Matrix: (soil/water) SOIL

Sample wt/vol: 2 (g/ml) g

% Moisture: 0

Extraction: SONC

Concentrated Extract Volume: 20000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203100-04

Lab File ID: 3403255.D

Date Collected: 03/05/02

Date Received: 03/06/02

Date Prepared: 03/12/02

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB07-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-05

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3403256.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB08-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-06

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3403257.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB08-(20.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203100-07

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3403260.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/06/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/06/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-ORC-RINSATE

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) WATER

Lab Sample ID: 0203100-09

Sample wt/vol: 770 (g/ml) ml

Lab File ID: 3314256.D

% Moisture: N/A

Date Collected: 03/05/02

Extraction: SALTING OUT

Date Received: 03/06/02

Concentrated Extract Volume: 7600 (uL)

Date Prepared: 03/12/02

Dilution Factor: 2.0

Date Analyzed: 03/15/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q	RL
2691-41-0	HMX	0.99	U	0.99
121-82-4	RDX	0.99	U	0.99
99-35-4	1,3,5-Trinitrobenzene	0.99	U	0.99
99-65-0	1,3-Dinitrobenzene	0.99	U	0.99
479-45-8	Tetryl	0.99	U	0.99
98-95-3	Nitrobenzene	0.99	U	0.99
118-96-7	2,4,6-Trinitrotoluene	0.99	U	0.99
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.99	U	0.99
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.99	U	0.99
606-20-2	2,6-Dinitrotoluene	0.99	U	0.99
121-14-2	2,4-Dinitrotoluene	0.99	U	0.99
88-72-2	2-Nitrotoluene	0.99	U	0.99
99-99-0	4-Nitrotoluene	0.99	U	0.99
99-08-1	3-Nitrotoluene	0.99	U	0.99

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB13-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-01

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410234.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB09-(7.0)

Lab Name: LAUCKS TESTING LAB

Matrix: (soil/water) SOIL

Sample wt/vol: 2 (g/ml) g

% Moisture: 0

Extraction: SONC

Concentrated Extract Volume: 20000 (uL)

Dilution Factor: 1.0

SDG No.: OSC01

Lab Sample ID: 0203135-02

Lab File ID: 3410235.D

Date Collected: 03/06/02

Date Received: 03/07/02

Date Prepared: 03/12/02

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB12-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-03

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410236.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB06-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-04

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410241.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB04-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-05

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410242.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB02-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-06

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410243.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB02-(20.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-07

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410244.D

% Moisture: 0

Date Collected: 03/05/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB10-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-08

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410245.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB11-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-09

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410246.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-10

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410247.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-11

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410250.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/11/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

RESULT FORM

FormVer 1.0 11/23/96

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB14-(20.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-12

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410251.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/12/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(7.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-13

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3110252.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/12/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(15.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-14

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410253.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/12/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-SB15-(20.0)

Lab Name: LAUCKS TESTING LAB

SDG No.: OSC01

Matrix: (soil/water) SOIL

Lab Sample ID: 0203135-15

Sample wt/vol: 2 (g/ml) g

Lab File ID: 3410254.D

% Moisture: 0

Date Collected: 03/06/02

Extraction: SONC

Date Received: 03/07/02

Concentrated Extract Volume: 20000 (uL)

Date Prepared: 03/12/02

Dilution Factor: 1.0

Date Analyzed: 04/12/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	mg/Kg	Q	RL
2691-41-0	HMX	0.50	U	0.50
121-82-4	RDX	0.50	U	0.50
99-35-4	1,3,5-Trinitrobenzene	0.50	U	0.50
99-65-0	1,3-Dinitrobenzene	0.50	U	0.50
479-45-8	Tetryl	0.50	U	0.50
98-95-3	Nitrobenzene	0.50	U	0.50
118-96-7	2,4,6-Trinitrotoluene	0.50	U	0.50
19406-51-0	4-Amino-2,6-Dinitrotoluene	0.50	U	0.50
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.50	U	0.50
606-20-2	2,6-Dinitrotoluene	0.50	U	0.50
121-14-2	2,4-Dinitrotoluene	0.50	U	0.50
88-72-2	2-Nitrotoluene	0.50	U	0.50
99-99-0	4-Nitrotoluene	0.50	U	0.50
99-08-1	3-Nitrotoluene	0.50	U	0.50

RL = Reporting Limit

LAUCKS TESTING LABORATORIES
SAMPLE DATA PACKAGE

MEVATEC

LABORATORY NO.: 0204470

SDG NO.: OSC02

MAY 16, 2002

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

To: MEVATEC Corporation
Project No.: 900FF
Project Name: Oscura Range Landfill
Laboratory No.: 0204470
SDG No.: OSC02
Date of Report: May 16, 2002

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Laucks Sample Identification	Testing Analytical Request
0159-ORC-DECON-0402	0204470-01	VOA/ABN/ORD/PEST/HERB/GRO/ DRO/PERC/MET/TP
0159-ORC-DECON-0402-TB	0204470-02	VOA

Analytical Request Key:

VOA =	Volatile Organics (8260B)
ABN =	Semi-Volatile Organics (0270D)
ORD =	Ordnance (8330)
PEST =	Pesticides/PCBs (8081B/8082A)
HERB =	Herbicides (8151A)
GRO =	Gasoline Range Organics (Mod. 8015B)
DRO =	Diesel Range Organics (Mod. 8015B)
MET =	RCRA Metals + Cu, Mg, Mn (6010B/7470A)
PERC =	Perchlorate (314.0)
TP =	Total Phosphorus (365.2)

Sample Receipt Comments:

Two of two volatile vials submitted for 0159-ORC-DECON-0204-TB contained air bubbles of less than one-quarter inch in size.

Sample Identification on Forms:

When completing forms created through the CLP software, every attempt is made to use both your sample IDs as well as the laboratory sample IDs. The forms have varied default sizes to their sample identification fields, and are not amenable to alteration or editing. When it is not possible to use your complete sample ID because of field length

limitations, Laucks will usually do one of two things: 1) use as much of your ID as will fit, beginning from the RIGHT hand side of the sample ID number; or 2) select some sub-set of your sample identifier if it is clearly a discrete number. In addition, all forms will contain our sample IDs, which can be cross-referenced from the table above.

GENERAL REMARKS ON ORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON ORGANIC ANALYSIS."

All GC/MS Fractions:

The computerized printout for sample analysis may tabulate values for target analytes that are not reported on the relevant Form I. In that case, we have manually searched the mass spectral data and have eliminated the compound(s) as reportable based on this search.

SPECIFIC REMARKS ON ORGANIC ANALYSES:

Holding Time Compliance:

Following the Contract Laboratory Program (CLP) model, Laucks calculates holding time compliance for organic determinations based on the first injection and/or analysis of an extract or sample. Subsequent analyses (for instance, for the purpose of dilution) are not tabulated.

Volatile Organic Compounds:

The holding time is 14 days calculated from date of collection in both soil and water samples. All samples were analyzed within holding time.

Semi-Volatile Organic Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. In either case, the holding time from extraction to analysis is 40 days. Samples required re-extraction after the holding time had expired. See detailed comment below.

Ordnance Compounds:

The holding time to extraction is 7 days in water and 14 days in soil calculated from date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

Pesticides/PCBs:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time.

Herbicides:

The holding time to extraction is 7 days in water and 14 days in soil calculated from the date of collection. The holding time from extraction to analysis is 40 days. All samples were extracted and analyzed within holding time

TPH Gasoline Fraction:

The holding time for analysis is 14 days in water and soil calculated from date of collection. All samples were extracted and analyzed within holding time.

TPH Diesel Fraction:

The holding time to extraction, which is calculated from the date of collection, is 7 days for water samples and 14 days for soil samples. The holding time from collection to analysis is 40 days. All samples were extracted and analyzed within holding time.

Volatile Fraction:

Initial Calibration Standards:
The concentrations of the standards used for the initial calibration were 1, 5, 10, 25, and 50 µg/L for all analytes with the exception of the meta- and para- xylene isomeric pair which were 2, 10, 20, 50, and 100 µg/L.

Continuing Calibration Standard:
Analysis of the continuing calibration standard performed on 4/30/02 yielded a percent difference value for chloromethane, bromomethane, chloroethane, 2-butanone, and dichlorodifluoromethane which exceeded 40 percent. Although there is no maximum criterion for these analytes, the laboratory generally uses 40 percent as an internal guideline. Since the average %D was less than 20 percent, and the SPCC and CCC compounds were within the control limits, the standard is compliant with the method and no further action was required.

Quality Control Analyses:
MS/MSD analyses were not performed due to insufficient sample volume provided. All recoveries were within the control limits for the blank spike analysis.

Sample Analyses:
An undiluted aliquot of sample DECON-0402 could not be purged due to excessive foaming ultimately causing loss of the sample into the sample concentrator. An undiluted scan of this sample was run on 04/25/02 resulting in unreadable data. This

data can be found in the Bench Sheets portion of the package. The sample was diluted by a factor of 20 prior to analysis on 05/02/02.

The vial containing sample DECON-0402-TB was broken before it could be analyzed. Due to insufficient sample volume, an analysis was not performed.

Sample Identifications:
The "0159-ORC-" prefix has been removed from all client identifications due to software constraints.

Semi-Volatile Fraction:

Initial Calibration Standards:
A minimum of five standards is required for the initial calibration analyses in accordance with SW 846. Six standard concentration levels were analyzed for the initial calibration. The standards concentrations were 5, 10, 25, 40, 60 and 80 ng/µL injected respectively.

Analysis of the initial calibration yielded a percent RSD value for hexachlorocyclopentadiene that exceeded 40%. Although there is no maximum criteria for this analyte, the laboratory generally uses 40 percent as an internal guideline. Since the average %RSD was less than 15 percent, and all SPCC and CCC compounds were in control, the standard is compliant and no further action was required.

Sample Identification:
The client sample identification has been shortened for the purpose of reporting in CLP format. On all forms the following method of abbreviation was used. By deleting the prefix 0159-ORC-, sample 0159-ORC-DECON-0402 was shortened to DECON-0402.

Surrogate Recoveries:
Analysis of sample 0159-ORC-DECON-0402 resulted in out of control surrogate recovery values for several compounds. Corrective action in the form of re-extraction and reanalysis of the sample was performed on 04/30/02, 5 days after the holding time expired. Both sets of data have been submitted and can be found in the Sample Data section of the Data Package.

Blank Spike Analysis:
Analysis of the blank spike S042402MSVWLS yielded a recovery value for 4-nitrophenol that exceeded the upper control limit. (It recovered at 100 percent and the upper control limit is 99 percent) Because this recovery is analytically adequate, no further action was necessary.

Ordnance Fraction:

Samples were analyzed for ordnance compounds in accordance with SW846 Method 8330 using a UV detector. A C18 (octadecyl) analytical column was used as the quantitation column. The CN (cyano) column was used for confirmation. Due to the co-elution of the surrogate, 1,2-dinitrobenzene and the target analyte, 1,3,5-trinitrobenzene, all sample aliquots were analyzed on both the primary and confirmation columns.

Continuing Calibration Verification (CCV) Standard Analyses:
Analysis of two CCVs yielded %D values for nitrotoluene that exceeded the control limit on the C18 column due to increased response. Because the average %D value was in control, the standards were compliant in accordance with SW 846 and no further action was taken.

Quality Control Analyses:
MS/MSD analyses could not be performed due to insufficient sample volume provided. All recoveries were within the control limits in the blank spike analysis.

Sample Analyses:
In addition to the usual one to one dilution, sample extract 0159-ORC-DECON-0402 was analyzed using a dilution factor of 25 due to the large number of non-target analyte peaks in the sample. The two analyses do not resemble each other because of severe matrix interference.

Surrogate Recoveries:
Recovery of the surrogate 1,2-dinitrobenzene was outside of the control limits in the undiluted analysis of sample extract 0159-ORC-DECON-0402 due to severe matrix interference. The extract was diluted and reanalyzed yielding a surrogate recovery within the control limits.

Pesticide/PCB Fraction:

Continuing Calibration Verification Analyses (CCVs):
The analysis of pesticide CCV L425215.d yielded a %D for methoxychlor that exceeded the 15 percent control limit. However, since the %D when averaged across all compounds was less than 15 percent the standard is compliant with the method and no further action was required.

Quality Control Analyses:
MS/MSD analyses could not be performed due to insufficient sample volume provided. All recoveries were within the control limits for the blank spike analysis.

Herbicide Fraction:

Continuing Calibration Verification Standard Analyses:
The analyses of the continuing calibration verification standards (CCVs) each yielded an average %D that exceeded the 15 percent control limit on one column. However, since

the average %D was within the control limits in each CCV on one column, no further action taken.

Sample Identification:
Due to software constraints, the sample name was shortened by removing all hyphens. Sample 0159-ORC-DECON-0402 was truncated to 0159ORCDECON0402.

Quality Control Analyses:
In the MS/MSD analyses, several compounds were either not recovered or the recovery exceeded the control limit due to matrix interference. However, because all percent recovery values were within the control limits for the blank spike, no further action was required.

Gasoline Range Organic Fraction:

Modified SW8015 was used to quantitate the samples for gasoline. Gasoline range responses were determined by summing the responses of all components, both resolved and unresolved, between C_6 and C_{12} integrated to the baseline. Quantitation for gasoline was based on the average calibration factor.

Quality Control Analyses:
Due to the batching of samples, MS/MSD for the water analyses were performed on a sample not included in this SDG and the raw data are not included in the data package. All spiking recovery values met the established control limits.

Sample Analyses:
Sample 0159-ORC-DECON-0402 was analyzed less than full volume (10 mL) due to matrix interference. (The sample foamed when analyzed at 10 mL.)

All quality control parameters were met.

Diesel Range Organic Fraction:

Modified method 8015 was used to quantitate the samples for diesel and oil. Diesel range responses were determined by summing the responses of all components, resolved and unresolved, between C_{12} and C_{24} integrated to a horizontal baseline. Oil range responses were determined by summing the responses of all components, resolved and unresolved, between C_{24} and C_{40} integrated to a horizontal baseline. Quantitation was based on a linear regression.

The quantitation of volatile organics within the retention time as stated does not indicate the presence of diesel or any other specific fuel type, since other volatile organic material may be present in the sample. Qualitative determination of the presence of diesel or a specific fuel type based on the characteristic hydrocarbon pattern of the appropriate fuel type is tabulated below:

Sample ID	Characteristic Diesel Pattern	Characteristic Oil Pattern
0159-ORC-DECON-0402	Partial	No

Sample Identifications:
Client sample identifications hve been shortened due to software conatraints. On all forms the following method of abbreviation was used. By deleting the prefix 0159-ORC-, sample 0159-ORC-DECON-0402 was shortened to DECON-0402.

Method Blank Analysis:
The method blank extracted on 4/25/02 contained residual range hydrocarbons greater than one-half of, but less than, the reporting limit. Since the hydrocarbon pattern does not resemble motor oil and the samples do not have residual range response above the reporting limit, no further action was taken.

MS/MSD:
MS/MSD analyses for the sample yielded diesel recovery and RPD values that exceeded the upper control limit due to the high level of hydrocarbons present in the samples. Since all recoveries for the blank spike were within the control limits no corrective action was taken.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

Mercury:

Laucks purchases a 1000 mg/L Hg stock solution from Inorganic Ventures. The 1.0 mg/L working standard is made by diluting 100 µL to 100 mL with 2% HNO_3. The calibration curve is made by placing 0, 20, 50, 100, 500 and 1000 µL of the working standard in BOD bottles and diluting up to 100 mL. The standard curve is equivalent to 0, 0.2, 0.5, 1.0, 5.0 and 10.0 µg/L.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection, excepting mercury, which is 28 days. All analyses were performed within holding time.

Miscellaneous:

The following analytes do not have a Contract Laboratory Program holding time. The holding times tabulated below derive from the relevant EPA methods and are applicable when the sample was appropriately preserved and/or cooled. All samples submitted followed the preservation guidelines unless explicitly noted otherwise.

Analyte	Holding Time	Violations
Perchlorate	28 days	None
Total Phosphorus	28 days	None

ICP Metals:

In the analytical sequence acquired on 04/26/02, the fourth continuing calibration blank contained chromium at a concentration greater than the CRDL. No samples were associated with this CCB.

In the analytical sequence acquired on 04/26/02, the eighth CCB contained silver at a concentration equal to the CRDL. The sample associated with this CCB was free of silver at a concentration equal to the CRDL. No corrective action was required. No data were flagged on the basis of this event.

The recovery of manganese in the matrix spike fell outside the established control limits of 75-125%. The concentration of manganese in the unspiked sample was greater than four times the amount spiked, so the control limits do not apply. No corrective action was required.

The recoveries of arsenic, barium, cadmium, chromium, copper, lead, magnesium, selenium, and silver in the matrix spike fell outside the established control limits of 75-125%. A post-digestion spike was performed for these elements, and all recoveries fell within the control limits of 75-125%. No further corrective action was required. All relevant data have been flagged with an "N" on the appropriate Forms I and V.

The results for arsenic, barium, chromium, copper, lead, magnesium and manganese in the laboratory duplicate did not agree with the original determination to within the established control limits. No further corrective action was required. All relevant data have been flagged with an "*" on the appropriate Forms I and VI.

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Mercury:

No comments.

Conventionals:

No comments.

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Seattle, WA 98108

ABBREVIATIONS

Several abbreviations can appear in our reports. The most commonly employed abbreviations are as follows:

U The analyte of interest was not detected to the limit of detection indicated.

SDL Sample Detection Limit. The SDL can vary from sample to sample, depending on sample size, matrix interferences, moisture content and other sample-specific conditions.

PQL Practical Quantitation Limit. The limit is drawn from the test method and usually represents the SDL multiplied by a matrix specific factor.

DB Dry Basis. The value reported has been back-calculated to normalize for the moisture content of the sample

AR As-Received. The value has not been normalized for moisture.

ORGANIC ANALYSES:

B When used in relation to organics fractions, the "B"flag indicates that the analyte of interest was detected in the method blank associated with the sample, as well as in the sample itself. The "B" flag is applied without regard to the relative concentrations detected in the blank and sample.

J The analyte of interest was detected below the routine reporting limit. This value should be regarded as an estimate.

T The flagged values represent the SUM of two co-eluting compounds. The SUM of these two values is shown as though it were a result for each of them. The two figures should not be added together.

E The flagged value was reported from an analysis that exceeded the linear range of the instrument. See additional comments for further discussion of the circumstances. Values so flagged should be considered estimates.

D The value reported derives from analysis of a diluted sample of the sample extract.

P When a dual column GC technique is employed, this flag indicates that test results from the two columns differ by more than 25%. Generally, we report the higher value.

C The flagged analyte has been confirmed by GC/MS analysis. The value reported may be derived from either the initial of confirmatory (GC/MS) analysis. See specific report comments for details.

CRQL Client requested Quantitation Limit, usually the limit of detection specified at your request. Might also be referred to as Contract Required Quantitation Limit.

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940 S. Harney
Seattle, WA 98108

INORGANIC ANALYSES:

B The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA)

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50 % of spike absorbance.

* Duplicate analysis not within control limits.

\+ Correlation coefficient for the MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract required Detection Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

Anh Ho	Harry Romberg
Project Manager	Quality Assurance Officer
5.16.02	5-16-02
(DATE)	(DATE)

HOW TO CONTACT US:

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

02-04-470
OSC02

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.: 900FF
PROJECT NAME: Oscura Range Landfill
SAMPLER'S SIGNATURE: Alejandro Martinez

	DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	DRO	GRO	SVOC's	Explosives	Herbicides	Pesticides	PCBs	Perchlorate	Total Metals	Phosphorus	REMARKS
1	4/18/02	1127	0159-ORC-DEON-0402	Water		2 L	X	X	X	X	X	X	X	X	X	X	X	
2	4/18/02	1127	0159-ORC-DEON-0402-TB	Water		2	X											

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Bad Davis	SAMPLES RECEIVED		(PRINTED NAME) Alejandro Martinez	(PRINTED NAME)	(PRINTED NAME) Jennifer Pevner
SHPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Laucks
	CHAIN OF CUSTODY SEALS		(TIME / DATE)	(TIME / DATE)	(TIME / DATE) 4-20-02 11:30
VIA: Fed-Ex	GOOD CONDITION/CHILLED	2.8°C	SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for Details		
	CONFORMS TO RECORD				

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #: 02-04-470 Contractor Cooler ______

QA Lab Cooler # ______

Number of Coolers 1 of 1

Project: Movatec

Date samples were received at the laboratory: 4/20/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 4/20/02

By: (print) Jennifer Penner (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   If YES, record carrier name and airbill number: Fed/Ex 7903 8899 4068
2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>> (YES) NO
   How many and where: 2 - 1 front, 1 back
   Seal date: 4/18/02 Seal name: Alejandro Martinez
3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>>> (YES) NO
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>>> YES (NO)
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> (YES) NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> (YES) NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>> (YES) NO
8. Was project identifiable from custody papers? If (YES), enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: Cube (YES) NO
10. Have designated person initial here to acknowledge receipt of cooler: JP date 4/20/02

B. LOG-IN PHASE : Date samples were logged-in: 4/20/02

By (print) Jennifer Penner (sign) [signature]

11. Describe type of packing in cooler: bubble wrap
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>> (YES) NO
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>>> (YES) NO

Cooler 1 of 1

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>>YES NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>>>YES NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>YES NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>>> YES NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>>> YES NO

    If YES, give details below

21. Who was called / faxed? _____

    By whom?_____(date)_____

DISCREPANCIES:

19) Ø159-ORC-DECON-Ø2Ø4- TB had bubbles < ¼" in 2 of 2 VOAs.

16A

Cooler 1 of 1

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-04-470
Assigned SDG Number: 0SC02

Number of Cooler

Temperature		pH of Bottle Types								
2.8 °C		VOA	CONV	NUTR	ORG	MET				
1		2) NR	D 7	D 1	2) 7	D 1				
2		3) V								

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

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16B

Sample ID Cross-Reference
Laucks Testing Laboratories

Sample ID	Client ID/Matrix		Collected	Received
0204470-01	0159-ORC-DECON-0402	W	04/18/02 11:27	04/20/02 11:30
0204470-02	0159-ORC-DECON-0402-TB	W	04/18/02 11:27	04/20/02 11:30

Printed: 04/22/02

16c

GC Volatiles Custody Log
Laucks Testing Laboratories, Seattle, Washington

Samples	Analysis	Date/Time Removed	Analyst	Date/Time Returned	Analyst	Comment
0204305- 4	RSK175	4/22/02 1035	SMS	4/22/02 1655	SMS	
0204327- 2						
0204307 1-3						
0204351 2,5						
0204327 1,3						
0204420 1-5	RSK175	4/23/02 0955	SMS	4/23/02 1550	SMS	
0204455 1-5						
0204467 1-5						
0204458 1-6						
0204257 1-7	504	4/23/02 0955	gr	4/23/02 1525	gr	
0204306 1-5						SMS 4/23/02
0204284 -1	RSK175	4/23/02 0215	SMS	4/23/02 1550	SMS	
0204305 4		1510				
0204327 1-3						
0204478 1-2	KC8015	25Apr2002 0700	MM	25Apr2002 0820	MM	
0204516 1-3						
0204421 1	TMG	25Apr2002 0202	MM	25Apr2002 0815	MM	
0204434 1,5						
0204470 1						
0204545 1-5						
0204414 1-2	KC8015	25Apr2002 0915	MM	25Apr2002 1045	MM	
0204426 1-4						

LAUCKS TESTING LABORATORIES
GC/MS VOA CUSTODY LOG

LABORATORY NUMBER	SAMPLE NUMBER	DATE & TIME REMOVED	BY	DATE & TIME RETURNED	BY	COMMENTS
0204590	3-5	5/1/02 1220	JD	5/1/02 1225	JD	
0204618	1-7	↓	↓	↓	↓	
0204545	1-7	5/1/02 1250	DP	5/1/02 1255	DP	
0204577	1-7	↓	↓	↓	↓	
0204470	1	5/1/02 14:55	EM	5/1/02 1540	GV	
0204715	3	5/3/02 1200	GV			
0205033	7-10	↓	↓			
0204619	1-4	5/3/02 1150	DP			
0205022	1-3	↓	↓			
0204511	5,6	↓	↓			
0205035	3,11	5/3/02 12:55	EM	5/3/02 13:40	EM	
0204544	1-2	↓	↓	↓	↓	
0204512	1-2	5/3/02 12:55	EM	↓	↓	

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~~168~~ 160

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

16 F

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

MEVATEC Corporation

Laboratory No.: 0204470

SDG No.: OSC02

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LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

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Completed and checked by: _____ Date: 5-16-02

EPA 8015 modified - Gasoline
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0204470-01
Client Sample ID : 0159-ORC-DECON-0402
Matrix : WATER
Reporting Units : ug/L
Total Purge Volume(ml) : 10

Sample Purged(ml) : 1
Extract Volume(ml) : N/A
Percent Moisture : N/A

Date Collected : 4/18/02
Date Received : 4/20/02

Date Extracted : N/A

Date Analyzed : 4/25/02
Time Analyzed : 18:57

Aliquot Volume (ul) : N/A
Dilution Factor : 1

Compound	Result	RL
Gasoline (C6 - C12)	250 U	250
Surrogate(s)	**% Rec**	**Limits**
Trifluorotoluene	104	50 - 150
Bromofluorobenzene	111	50 - 150

RL = Reporting limit.

Comment: The sample was analyzed at less than a ten ml final volume due to foaming.

SAMPLE DATA

SDG # OSC02

0204470

Volatiles Analysis

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

DECON-0402

Lab Name: Laucks Testing Labs

SDG No.: OSC02

Matrix: (soil/water) WATER

Lab Sample ID: 0204470-01

Sample wt/vol: 25.0 (g/ml) ML

Lab File ID: F0502013.D

Level: (low/med) LOW

Date Received: 04/20/02

% Moisture: not dec.

Date Analyzed: 05/02/02

GC Column: DB-624 ID: 0.45 (mm)

Dilution Factor: 20.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	20	U
75-09-2	Methylene chloride	54	
156-60-5	trans-1,2-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	100	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U
95-47-6	Xylene (total)	20	U

FORM I VOA

SAMPLE DATA

SDG# OSC02

Semivolatiles

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

DECON-0402

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC02

Matrix: (soil/water) WATER Lab Sample ID: 0204470-01

Sample wt/vol: 960 (g/ml) ML Lab File ID: Z0427028.D

Level: (low/med) LOW Date Received: 04/20/02

% Moisture: decanted:(Y/N) N Date Extracted: 04/24/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/27/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
100-51-6	Benzyl alcohol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
67-72-1	Hexachloroethane	5	U
105-67-9	2,4-Dimethylphenol	5	J
65-85-0	Benzoic acid	10	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	5	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	5	U
131-11-3	Dimethylphthalate	5	U
606-20-2	2,6-Dinitrotoluene	5	U
208-96-8	Acenaphthylene	5	U
99-09-2	3-Nitroaniline	5	U
83-32-9	Acenaphthene	5	U
132-64-9	Dibenzofuran	5	U
100-02-7	4-Nitrophenol	5	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

DECON-0402

Lab Name: Laucks Testing Labs Contract:

Lab Code: Case No.: SAS No.: SDG No.: OSC02

Matrix: (soil/water) WATER Lab Sample ID: 0204470-01

Sample wt/vol: 960 (g/ml) ML Lab File ID: Z0427028.D

Level: (low/med) LOW Date Received: 04/20/02

% Moisture: decanted:(Y/N) N Date Extracted: 04/24/02

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/27/02

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	10	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
86-73-7	Fluorene	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
100-01-6	4-Nitroaniline	5	U
534-52-1	4,6-Dinitro-2-methylphenol	5	U
86-30-6	N-Nitrosodiphenylamine	5	U
122-66-7	1,2-Diphenylhydrazine	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	5	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
86-74-8	Carbazole	5	U
84-74-2	Di-n-butylphthalate	5	U
92-87-5	Benzidine	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
56-55-3	Benzo[a]anthracene	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo[b]fluoranthene	5	U
207-08-9	Benzo[k]fluoranthene	5	U
50-32-8	Benzo[a]pyrene	5	U
193-39-5	Indeno[1,2,3-cd]pyrene	5	U
53-70-3	Dibenz[a,h]anthracene	5	U
191-24-2	Benzo[g,h,i]perylene	5	U

8015 MODIFIED-DIESEL
SAMPLE DATA

Fuel Hydrocarbons Data Sheet

Lab Name : Laucks Testing Labs, Inc.
Lab Sample ID : 0204470-01
Client Sample ID : DECON-0402
Matrix : WATER
Reporting Units : mg/L

Date Collected : 4/18/02
Date Received : 4/20/02

Date Extracted : 4/25/02

Date Analyzed : 5/7/02
Time Analyzed : 22:26

Sample Extracted(ml) : 400
Total Extract Volume(ml) : 2
Percent Moisture : N/A

Injection Volume (ul) : 1
Dilution Factor : 5

Compound	Result	RL
Diesel (C12-C24)	3.3 D	1.2
Motor Oil (C24-C40)	5.2 D	5.0

Surrogate(s)	% Rec	Limits
2-Fluorobiphenyl	95	50 - 150
p-Terphenyl	113	50 - 150

RL = Reporting limit. D = Dilution

Comment: The hydrocarbon pattern partially resembles diesel and does not resembles motor oil.

Sample Results

OSC02

Ordnance by 8330

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159-ORC-DECON-0402

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) WATER

Sample wt/vol: 770 (g/ml) ml

% Moisture: N/A

Extraction: SONC

Concentrated Extract Volume: 7800 (uL)

Dilution Factor: 2.0

SDG No.: OSC02

Lab Sample ID: 0204470-01

Lab File ID: 3424250.D

Date Collected: 04/18/02

Date Received: 04/20/02

Date Prepared: 04/25/02

Date Analyzed: 04/26/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q	RL
2691-41-0	HMX	0.51	U	0.51
121-82-4	RDX	250	E	0.51
99-65-0	1,3-Dinitrobenzene	0.51	U	0.51
479-45-8	Tetryl	0.51	U	0.51
98-95-3	Nitrobenzene	0.51	U	0.51
118-96-7	2,4,6-Trinitrotoluene	0.51	U	0.51
1946-51-0	4-Amino-2,6-Dinitrotoluene	0.51	U	0.51
35572-78-2	2-Amino-4,6-Dinitrotoluene	0.51	U	0.51
606-20-2	2,6-Dinitrotoluene	0.51	U	0.51
121-14-2	2,4-Dinitrotoluene	1.1	P	0.51
88-72-2	2-Nitrotoluene	0.51	U	0.51
99-99-0	4-Nitrotoluene	0.51	U	0.51
99-08-1	3-Nitrotoluene	0.51	U	0.51

RL = Reporting Limit

Sample Results

OSC02

0204470

Herbicides by Method SW8151A

ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE ID

0159ORCDECON0402

Lab Name: LAUCKS TESTING LABS

Matrix: (soil/water) WATER

Sample wt/vol: 50 (g/ml) ml

% Moisture: N/A

Extraction: SEPF

Concentrated Extract Volume: 500 (uL)

Dilution Factor: 1.0

SDG No.: OSC02

Lab Sample ID: 0204470-01

Lab File ID: M509237.D

Date Collected: 04/18/02

Date Received: 04/20/02

Date Prepared: 04/25/02

Date Analyzed: 05/10/02

CONCENTRATION UNITS:

CAS NO.	COMPOUND	ug/L	Q	RL
1918-00-9	Dicamba	0.080	U	0.080
120-36-5	Dichlorprop	0.080	U	0.080
94-75-7	2,4-D	0.080	U	0.080
93-72-1	2,4,5-TP	0.080	U	0.080
93-76-5	2,4,5-T	0.33	P	0.080
94-82-6	2,4-DB	0.080	U	0.080
88-85-7	Dinoseb	0.080	U	0.080

RL = Reporting Limit

Metals Data

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: LAUCKS Testing Laboratories, I Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC02

SOW No.: SW-846

EPA Sample No.	Lab Sample ID.
0159-ORC-DECON-0402	0204470-01
0159-ORC-DECON-0402D	0204470-01D
0159-ORC-DECON-0402S	0204470-01S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joan Phillips Name: JOAN PHILLIPS

Date: 5/13/02 Title: INORGANICS MANAGER

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Inorganics Analysis Data Sheets

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-ORC-DECON-0402

Lab Name: LAUCKS Testing Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC02

Matrix (soil/water): WATER Lab Sample ID: 0204470-01

Level (low/med): LOW Date Received: 4/20/02

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	37.2		N*	P
7440-39-3	Barium	2560		N*	P
7440-43-9	Cadmium	50.0	U	N	P
7440-47-3	Chromium	179		N*	P
7440-50-8	Copper	258		N*	P
7439-92-1	Lead	102		N*	P
7439-95-4	Magnesium	124000		N*	P
7439-96-5	Manganese	4260		*	P
7782-49-2	Selenium	10.0	U	N	P
7439-97-6	Mercury	0.046	B		CV
7440-22-4	Silver	1.0	U	N	P

Color Before: Brown Clarity Before: Clear Texture: _____

Color After: Grey Clarity After: Clear Artifacts: _____

Comments: _____

Total Phosphorus Data

COVER PAGE – INORGANIC ANALYSES DATA PACKAGE

Lab Name: LAUCKS TESTING LABS, INC.

Lab Code: LAUCKS SDG No: OSC02

Client Sample Identification	Lab Sample Identification
0159-ORC-DECON-0402	0204470-01

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: JOAN PHILLIPS

Date: May 16, 2002 Title: INORGANICS MANAGER

Inorganics Analysis Data Sheets

INORGANICS ANALYSIS DATA SHEET

Lab Name: Laucks Testing Labs
SDG No. : OSC02
Matrix : WATER

Sample ID : 0159-ORC-DECON-0402
Lab Sample ID: 0204470-01
Date Received: 04/20/02

Analyte	Result	Units	Prepped	Analyzed	Limit	Method
Total Phosphorus as P	27.1	mg/L	04/29/02	04/29/02	2.00	EPA 365.2

SUBCONTRACATED DATA

SDG OSC02

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel. (909) 590-1828 Fax (909) 590-1498

May 15, 2002

Laucks Laboratory
Attention: Anh Ho
940 S Harney Street
Seattle WA 98108

Dear Anh,

This package contains samples in our Service ID 02-2852 and your project OSC02 Oscura Landfill Range.
Enclosed please find:

(1) Original Report.
(2) Original Chain of Custody.
(3) One Original and one Copy of Level D Data Package Deliverable.
(4) One Diskette containing EDD Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Kevin Xie, Ph.D.,
QA/QC Director
Applied P & Ch Laboratory

Applied P & Cl Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Laucks Laboratory
Attention: Anh Ho
940 S Harney Street
Seattle WA 98108
Tel: (206)767-5060 Fax: (206)767-5063

Service ID #: 801-022852
Collected by:
Collected on: 04/18/02

Received: 05/08/02
Extracted: N/A
Tested: 05/08/02
Reported: 05/10/02

Sample Description: Water
Project Description: OSC02 Oscura Landfill Range

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 0159-ORC-DECON-0402 02-02852-1
Dilution Factor				2
PERCHLORATE	314.0	$\mu g/L$	4	<8

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Cl Laboratory

LAUCKS TESTING LABORATORIES
SAMPLE DATA PACKAGE

MEVATEC CORPORATION

LABORATORY NO.: 0205063

SDG NO.: OSC03

MAY 17, 2002

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

To: MEVATEC Corporation
Project No.: 900FF
Project Name: Oscura Range Landfill
Laboratory No.: 0205063
SDG No.: OSC03
Date of Report: May 17, 2002

SAMPLE RECEIPT, IDENTIFICATION, AND GENERAL COMMENTS:

Sample Receipt and Identification:

The samples submitted under the laboratory number(s) indicated above were identified and analyzed as tabulated below. The samples were collected and received on the dates noted on the enclosed chain-of-custody copies, Attachment A.

Client Sample Identification	Laucks Sample Identification	Testing Analytical Request
0159-SB12- (7.0)	0205063-01	MET
0159-SB08- (15.0)	0205063-02	MET

Analytical Request Key:

MET = RCRA Metals (no mercury) + Cu, Mg, Mn (6010B)

Sample Receipt Comments:

Karen Costa of MEVATEC requested on 5/2/02 that the samples be analyzed for RCRA metals, minus mercury, copper, magnesium, and manganese due to misunderstanding of sample identifications on the original Chain-of-Custody (COC). Refer to SDG OSC01 for the original COC.

Sample Identification on Forms:

When completing forms created through the CLP software, every attempt is made to use both your sample IDs as well as the laboratory sample IDs. The forms have varied default sizes to their sample identification fields, and are not amenable to alteration or editing. When it is not possible to use your complete sample ID because of field length limitations, Laucks will usually do one of two things: 1) use as much of your ID as will fit, beginning from the RIGHT hand side of the sample ID number; or 2) select some sub-set of your sample identifier if it is clearly a discrete number. In addition, all forms will contain our sample IDs, which can be cross-referenced from the table above.

GENERAL REMARKS ON INORGANIC ANALYSES:

The following comments describe general analysis conditions. For remarks specific to the samples reported in this case, see "SPECIFIC REMARKS ON INORGANIC ANALYSES."

ICP Metals:

The preparation blank for metals in soil is calculated to mg/kg by assuming a sample weight of 1.00g/100mL. Total solids of 100% are also assumed.

On the first timed and dated page of each ICP run, the data to be reported or rejected will be tabulated for that run.

SPECIFIC REMARKS ON INORGANIC ANALYSES:

Holding Time Compliance:

Laucks calculates holding time compliance for inorganic determinations using the date on which reportable data were acquired.

Metals:

The holding time for metals is six months from the date of collection. All analyses were performed within holding time.

ICP Metals:

The matrix spike sample percent recovery of manganese was outside of the established control limits of 75-125% for sample 0159-SB12-(7.0). However the sample concentration exceeds the spike concentration by a factor of four or more. No further corrective action was required.

The duplicate sample relative percent difference of barium was outside the control limits of ±20% for sample 0159-SB12-(7.0). No further corrective action was required. All relevant data have been flagged with an "*" on Forms I and VI.

The serial dilution for magnesium and manganese did not agree within 10% of the original determination after correction for dilution for sample 0159-SB12-(7.0). No further corrective action was required. .All relevant data have been flagged with an "E" on the applicable Forms I and IX.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

INORGANIC ANALYSES:

B The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" shall be entered.

E The reported value is estimated because of the presence of interference. The serial dilution was not within control limits.

M Duplicate injection precision not met.

N Spiked sample recovery not within control limits.

S The reported value was determined by the Method of Standard Additions (MSA)

W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50 % of spike absorbance.

* Duplicate analysis not within control limits.

\+ Correlation coefficient for the MSA is less than 0.995.

Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CRDL Client Requested Detection Limit, usually the limit of detection specified at your request. Might also be referred to as Contract required Detection Limit.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

RELEASE OF DATA

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Respectfully submitted,

Anh Ho Project Manager	Harry Romberg Quality Assurance Officer
5·20·02 (DATE)	5-20-02 (DATE)

HOW TO CONTACT US:

All Laucks Testing Laboratories staff members can be reached at the same telephone and facsimile numbers: (206) 767-5060 by phone, (206) 767-5063 by FAX.

REQUESTS FOR DUPLICATE COPIES:

This packet has been checked for accuracy. All pages are present and in sequential order. Please see Attachment B for a detailed record.

In the event that duplicate data copies are needed, Laucks will accommodate your request at a fee of twenty-five cents ($0.25) per copy, plus shipping. If the data are in storage, there will also be a fee for retrieval.

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT A

Chain-of-Custody Copies

Laucks
Testing Laboratories, Inc.

COOLER RECEIPT FORM

WORKORDER #. 02-05-063

Contractor Cooler _____

QA Lab Cooler # _____

Number of Coolers _____

Project: Mevatec

Date samples were received at the laboratory: 5/4/02

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 5/4/02

By: (print) Liem Ho (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc.),>>>>>>>>>>>>>>>>>>>> YES NO

   If YES, record carrier name and airbill number: N/A

2. Were custody seals on outside of cooler?>>>>>>>>>>>>>>>>>>>>>>>>>>>>> YES NO

   How many and where: N/A

   Seal date: ___/___/___ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival?>>>>>> YES ~~NO~~ N/A
4. Did you screen samples for radioactivity using the Geiger Counter?>>>>>>>> YES NO
5. Were custody papers sealed in a plastic bag and taped inside to the lid?>>>>>> YES NO
6. Were custody papers filled out properly (ink, signed, etc.)?>>>>>>>>>>>>>>> YES NO
7. Did you sign custody papers in the appropriate place?>>>>>>>>>>>>>>>>>>>YES NO ✓
8. Was project identifiable from custody papers? If YES, enter project name at top of this form.
9. If required, was enough cooling material present?>>>>Type of ice: _____YES NO ✓
10. Have designated person initial here to acknowledge receipt of cooler: ___date___/___/___

B. LOG-IN PHASE : Date samples were logged-in: 5/4/02

By (print) Liem Ho (sign) [signature]

11. Describe type of packing in cooler: ~~bubble~~ N/A
12. Were all bottles sealed in separate plastic bags?>>>>>>>>>>>>>>>>>>>>>>> YES ~~NO~~ N/A
13. Did all bottles arrive unbroken and were labels in good condition?>>>>>>>> YES ~~NO~~

Cooler_____of_____

LAUCKS TESTING LABORATORIES, INC.

COOLER RECEIPT FORM (continued)

14. Were all bottle labels complete (ID, date, time signature, preservative, etc.)? YES NO
15. Did all bottle labels agree with custody papers?>>>>>>>>>>>>>>>>>>>>>>>>YES NO
16. Were correct containers used for the tests indicated?>>>>>>>>>>>>>>>>>>>>YES NO
17. Were correct preservatives added to samples?>>>>>>>>>>>>>>>>>>>>>>>>>YES NO
18. Was a sufficient amount of sample sent for tests indicated?>>>>>>>>>>>>>>> YES NO
19. Were bubbles absent in VOA samples: If NO, list by QA #:>>>>>>>>>>>>> YES NO
20. Was project manager called / faxed & status discussed? >>>>>>>>>>>>>>>>> YES NO

    If YES, give details below

21. Who was called / faxed? _____

    By whom?_____(date)_____

DISCREPANCIES:

Karen Costa requested 5/2/02 that these samples be analyzed for RCRA metals minus Hg due to some misunderstanding on sample IDs. Please refer to SDG OSC01 for the COC.

Cooler_____of_____

Laucks Testing Laboratories, Inc., Supplemental Sample Receipt Log

Work Order Number: 02-05-063
Assigned SDG Number: 05C03

Number of Cooler

Temperature		pH of Bottle Types								
		8oz SO4								
1		12 N								
2		11 N/C								

Allowable temperature and pH ranges (neutral pH defined as a value between 5 and 9)

Temperature	Allowable temperature range is 4± 2 degrees Celsius
Acid Preserved pH	pH must be less than 2
Base Preserved pH	pH must be greater than 12
N/C =	Not Checked for pH

templog.doc revision 4/12-2

Sample ID Cross-Reference
Laucks Testing Laboratories

Sample ID	Client ID/Matrix	Collected	Received
0205063-01	0159-SB12-(7.0) S	03/06/02 11:24	05/04/02
0205063-02	0159-SB08-(15.0) S	03/05/02 12:14	05/04/02

Printed: 05/06/02

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108

ATTACHMENT B

Index

LAUCKS TESTING LABORATORIES
940 S. Harney
Seattle, WA 98108
MEVATEC Corporation

Laboratory No.: 0205063

SDG No.: OSC03

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II. Chain-of-Custody: 6-10

III. Index: 11-12

IV. Metals Data: 13-123
- A. Cover Page: 14
- B. Inorganics Analysis Data Sheets: 15-17
- C. Quality Control Data: 18-29
- D. Quarterly Verification of Instrument Parameters: 30-35
- E. Raw Data: 36-107
- F. Digestion and Distillation Logs: 108-123

Completed and checked by: _____ Date: 5/17/02

Metals Data

USEPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Laucks Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC03

SOW No.: SW-846

EPA Sample No.	Lab Sample ID.
0159 SB12 (7.0)	0205063 01
0159-SB12-(7.0)D	0205063-01D
0159-SB12-(7.0)S	0205063-01S
0159-SB08-(15.0)	0205063-02

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Joan Phillips Name: JOAN PHILLIPS

Date: 5/17/02 Title: INORGANIC MANAGER 14

Inorganics Analysis Data Sheets

USEPA - CLP
-1-
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB12-(7.0)

Lab Name: Laucks Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC03

Matrix (soil/water): SOIL Lab Sample ID: 0205063-01

Level (low/med): LOW Date Received: 5/4/02

% Solids: 67.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	327		*	P
7440-43-9	Cadmium	5.8	U		P
7440-47-3	Chromium	27.0			P
7440-50-8	Copper	12.8			P
7439-92-1	Lead	10.8			P
7439-95-4	Magnesium	8680		E	P
7439-96-5	Manganese	369		E	P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.12	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts:

Comments:

USEPA - CLP

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0159-SB08-(15.0)

Lab Name: Laucks Laboratories Contract: Mevatec OSC

Lab Code: LAUCKS Case No.: 07092 SAS No.: N5735 SDG No.: OSC03

Matrix (soil/water): SOIL Lab Sample ID: 0205063-02

Level (low/med): LOW Date Received: 5/4/02

% Solids: 88.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	167		*	P
7440-43-9	Cadmium	4.7	U		P
7440-47-3	Chromium	23.8			P
7440-50-8	Copper	14.7			P
7439-92-1	Lead	10.9			P
7439-95-4	Magnesium	10600		E	P
7439-96-5	Manganese	365		E	P
7782-49-2	Selenium	0.95	U		P
7440-22-4	Silver	0.09	U		P

Color Before: Brown Clarity Before: Texture: Medium

Color After: Yellow Clarity After: Artifacts:

Comments:

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APPENDIX D

Statistical Calculations

Statistical Calculations
t Distribution

H_o: $\mu_1=\mu_2$

μ = mean of landfill cell population
μ = mean of background population

$$t = \frac{\mu_1 - \mu_2}{S_e}$$

$$S_e = \sigma_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}$$

$$\sigma_p = \sqrt{\frac{(n_1 - 1)\sigma_1^2 + (n_2 - 1)\sigma_2^2}{n_1 + n_2 - 2}}$$

$$t = \frac{\mu_1 - \mu_2}{\sigma_p \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}}$$

Where:

n_1 = landfill cell sample number
μ_1 = mean of the landfill cell analyte concentrations
σ_1 = standard deviation of the landfill cell analyte concentrations
n_2 = background sample number
μ_2 = mean of the background analyte concentrations
σ_2 = standard deviation of the background analyte concentrations
S_e =standard error of the mean
σ_p = pooled standard deviation
Degrees of Freedom = 13

Degrees of Freedom
n_1 =11
n_2 = 4
2 sample populations
Degrees of Freedom = 11+4-2=13

To reject the hypothesis $\mu_1=\mu_2$, the calculated *t* statistic must lie outside of the range –1.77 to + 1.77. This range was given in the table 'Critical Values of *t*' (McClave and Dietrich, 1991).

Arsenic

$$\sigma_p = \sqrt{\frac{(11-1)(0.29)^2 + (4-1)(0.61)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{0.841+1.12}{13}}$$

$$\sigma_p = 0.39$$

$$t = \frac{3.55 - 3.63}{0.39\sqrt{\frac{1}{11}+\frac{1}{4}}}$$

$$t = \frac{-0.08}{(0.39)(0.58)}$$

$$t = -0.35$$

The t value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1=\mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Barium

$$\sigma_p = \sqrt{\frac{(11-1)(70.17)^2 + (4-1)(48.5)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{49{,}238.29 + 7{,}056.75}{13}}$$

$$\sigma_p = 65.80$$

$$t = \frac{221.48 - 257.00}{65.80\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{-35.52}{(65.80)(0.58)}$$

$$t = -0.93$$

The *t* value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Chromium

$$\sigma_p = \sqrt{\frac{(11-1)(5.25)^2 + (4-1)(8.85)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{275.62 + 234.96}{13}}$$

$$\sigma_p = 6.26$$

$$t = \frac{21.97 - 27.65}{6.26\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{-5.68}{(6.26)(0.58)}$$

$$t = -1.56$$

The t value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Copper

$$\sigma_p = \sqrt{\frac{(11-1)(2.57)^2 + (4-1)(4.96)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{66.05 + 73.80}{13}}$$

$$\sigma_p = 3.27$$

$$t = \frac{12.31 - 14.8}{3.27\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{-2.49}{(3.27)(0.58)}$$

$$t = -1.31$$

The *t* value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Lead

$$\sigma_p = \sqrt{\frac{(11-1)(1.18)^2 + (4-1)(2.57)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{13.92+19.81}{13}}$$

$$\sigma_p = 1.61$$

$$t = \frac{9.91 - 10.65}{1.61\sqrt{\frac{1}{11}+\frac{1}{4}}}$$

$$t = \frac{-0.74}{(1.61)(0.58)}$$

$$t = -0.79$$

The t value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1=\mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Magnesium

$$\sigma_p = \sqrt{\frac{(11-1)(1{,}670.44)^2 + (4-1)(2{,}707.40)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{27{,}903{,}697.93 + 21{,}990{,}044.28}{13}}$$

$$\sigma_p = 1{,}959.07$$

$$t = \frac{9{,}610 - 10{,}765}{1{,}959.07\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{-1{,}155}{(1{,}959.07)(0.58)}$$

$$t = -1.01$$

The t value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Manganese

$$\sigma_p = \sqrt{\frac{(11-1)(49.3)^2 + (4-1)(130.28)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{24{,}304.9 + 50{,}918.64}{13}}$$

$$\sigma_p = 76.07$$

$$t = \frac{333.82 - 396.75}{76.07\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{-62.93}{(76.07)(0.58)}$$

$$t = -1.42$$

The *t* value lies within the range –1.77 to + 1.77. We cannot reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is no evidence that the background samples and the landfill cell samples came from different populations.

Phosphorus

$$\sigma_p = \sqrt{\frac{(11-1)(195.4)^2 + (4-1)(172.7)^2}{11+4-2}}$$

$$\sigma_p = \sqrt{\frac{381{,}811.60 + 89{,}475.87}{13}}$$

$$\sigma_p = 190.40$$

$$t = \frac{1{,}627.27 - 497.5}{190.40\sqrt{\frac{1}{11} + \frac{1}{4}}}$$

$$t = \frac{1{,}129.77}{(190.40)(0.58)}$$

$$t = 10.23$$

The *t* value lies outside the range –1.77 to + 1.77. We reject the hypothesis that $\mu_1 = \mu_2$, therefore we conclude that there is evidence that the background samples and the landfill cell samples came from different populations.

APPENDIX E

Field Lithologic Logs

DRILLING LOG	DIVISION	INSTALLATION: WSMR	HOLE No.: SB-01	SHEET No.: 1 of 1

1. PROJECT: ORC Landfill - 0159	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
2. LOCATION (Coordinates or Station): N35°E Bearing	12. MANUFACTURER'S DESIGNATION OF DRILL
3. DRILLING AGENCY	13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
4. HOLE No. (As shown on drawing title and file number): SB-01	14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER: Tierra	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE: ☐ Vertical ☒ Inclined 40° N35°E Degrees from Vertical	16. DATE HOLE — STARTED: 3-4-02 1349 — COMPLETED: 1550
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING
9. TOTAL DEPTH OF HOLE: 20.0' — 10. SIZE AND TYPE OF BIT	19. SIGNATURE OF INSPECTOR

ELEVATION c	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Red V. fine sandy silty clay. minor white caliche ?	90%		VOC 0.1 @ 2' Lith Sample Collected
	5		red V-fine sandy silty clay w/ Gypsum x-tals(?)	95% -100%		Lith Sample Collected @ 1500
	10		dark reddish brown clay w/ silt - gypsum very hard	100%		Lith Sample @ 1530 LEL - 0 VOC - 0.0 Oxy - 21.0
	15		Dk. Reddish brown - sandy - silty clay w/ gypsum + Caliche(?) - also dark black organic matter - Vegetation(?)	90%		Chem. Sample Collected 19.0 - 20.0 ft 4-4oz - 1-2oz Lith Sample collected LEL - 0 VOC 0.0, Qs Sample
	20					

Note: Cement/bentonite grout in borings

DRILLING LOG

DIVISION	INSTALLATION	HOLE No. SB-02	SHEET No. 1 OF 1

1. PROJECT: ORC LF SWMU 159
2. LOCATION (Coordinates or Station):
3. DRILLING AGENCY:
4. HOLE No. (As shown on drawing title and file number): SB-02
5. NAME OF DRILLER: Tierra
6. DIRECTION OF HOLE: ☐ Vertical ☒ Inclined 40° S18°W Degrees from Vertical
7. THICKNESS OF OVERBURDEN:
8. DEPTH DRILLED INTO ROCK:
9. TOTAL DEPTH OF HOLE: 25'
10. SIZE AND TYPE OF BIT:
11. DATUM FOR ELEVATION SHOWN (TBM or MSL):
12. MANUFACTURER'S DESIGNATION OF DRILL:
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER:
16. DATE HOLE: 3-5-02 STARTED: 1548 COMPLETED: 1702
17. ELEVATION TOP OF HOLE:
18. TOTAL CORE RECOVERY FOR BORING:
19. SIGNATURE OF INSPECTOR:

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significent) g
	0		0-4.0 DK brown fine sand silt + clay pebbles - 3.0-4.0 - L.S. . . . 5.0' - Chunks concrete		80%	1557 Lith Sample Collected
	5		Reddish brown fine sand, silt and clay w/ gypsum 5.0 - Chunks of Concrete -		95%	1610 Lith Sample Collected Lith Sample collected
	10		DK brown clay w/ minor silt Gypsum present · Dark black organic material linear - decayed vegetation ?		95%	1640 Lith Sample collected @ 14.0'
	15		DK brown - Clay w/ silt and gypsum present less clay from 15.0 - 17.5 clay increases, silt decreases ↓		95%	1650 Chemical Sample Collected @ 19.0-20.0 ft. Lith Sample collected
	20		20.0 - 24.0 - DK brown silty clay w/ Gypsum silt increases ↓ 24.0 - 25.0 Red - Silty clay and gypsum		95%	1702 - chem. Sample collected @ 24.0-25.0' Lith sample Collected
	25					

Note: Cement / bentonite grout in boring.

DRILLING LOG

DIVISION	
INSTALLATION	WSMR
HOLE No.	
SHEET No.	1 OF 1
1. PROJECT	ORC Landfill - DIST
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-03
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	☐ Vertical ☒ Inclined 40° N 32° E Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	20.0'
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 3-4-02 1615 / COMPLETED
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		Sand, silt, and clay. red to dark red. More clay from 0.0 - 2.0' Caliche and gypsum	85%		Lith Sample Collected
	5		5.0 - 9.0 - Lt to med red Sandy silty Clay - maybe more sand and silt. 9.0 - 10.0 - Dark reddish brown clay w/ minor sand and silt	95%		1638 - Lith Sample Collected.
	10		Dark reddish brown clay w/ minor v. fine sand and silt - Gypsum - Caliche - Calcite? - Veins ↖ gypsum?	95%		Lith Sample Collected 1650
	15		Dark brown - Clay w/ minor silt - Veins of Gypsum or Calcite	95%		1702 - Lith Sample Collected.
	20		Dark black organic material - fibrous - possible veg.		-1702	19.0 - 20.0 - Chem Sample Collected.

NOTE: Cement / bentonite grout in boring

DRILLING LOG	DIVISION	INSTALLATION	HOLE No. SB-04	SHEET No. 1 OF 1

1. PROJECT: ORC LF SWMU 159	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
2. LOCATION (Coordinates or Station)	12. MANUFACTURER'S DESIGNATION OF DRILL
3. DRILLING AGENCY	13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
4. HOLE No. (As shown on drawing title and file number): SB-04	14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER: Tierra	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE: ☐ Vertical ☒ Inclined 40° 520°W Degrees from Vertical	16. DATE HOLE: STARTED 3-5-02 1440; COMPLETED 1525
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING
9. TOTAL DEPTH OF HOLE / 10. SIZE AND TYPE OF BIT	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0.0-4.0 - DK brown Silty fine gr. Sand w/clay 4.0-5.0 - Lt red Sand silt and clay w/gypsum - (abundant)	95%		1450 - Lith Sample Collected
	5		5.0-7.5 - Lt red fine Sand silt and clay w/ abundant gypsum 7.5-10.0 - Dark reddish brown Silty clay w/gypsum	95%		1503 - Lith Sample collected
	10		Dark brown - reddish brown Silty clay w/ gypsum minor dark organic material present (veg decomp.)	95%		1514 Lith Sample Collected
	15 20		Dark brown - reddish brown - Silty clay w/ gypsum	95%		1525 - Chemical Sample Collected 19.0-20.0' LEL 0 VOC 0.0 on core Lith Sample Collected

Note: Cement / bentonite grout in boring

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	SB-05
SHEET No.	1 OF 1
1. PROJECT	ORC Landfill SWMU 159
2. LOCATION (Coordinates or Station)	ORC
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-05
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	☐ Vertical ☒ Inclined 40° N10°E Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	26.0'
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 3-5-02 0934 / COMPLETED
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0 - 1.0 - D.K brown Silty clay w/ roots Soil - horizon? 1.0 - 5.0 - Red V. fine Sandy Silty clay w/ Gypsum + Caliche		95%	VOC = 0.6 @ 4.0' Lith Sample Collected
	5		5.0 - 7.5 - red Silty clay w/ gypsum + possible Caliche 7.5 - 10.0 - DK brown Clay w/ minor Silt - gypsum filling veins - also - dark black organic matrix looks like decomposing veg.		95%	VOC = 0.7 @ 8.0'
	10		As above DK brown Clay w/ silt minor and gypsum in veins? 12.0 - 15.0 - red silty clay w/ grp		95%	VOC = 0.6 @ 14.0'
	15		Dark brown Silty clay - w/ organic matter - root decomposing?		95%	1510 - Chem Sample Collected @ 19.0' - inclined 20° VOC, 0.8 in core
	20		Dark reddish brown silty clay w/ gypsum - organic material			1018 - Chem Sample Collected @ 25.0' - inclined VOC - 0.6
	25 26					

2 - lith samples collected

Note: Cement / bentonite grout in boring

DRILLING LOG	DIVISION	INSTALLATION	HOLE No. SB-06	SHEET No. 1 OF 1

1. PROJECT: ORC LF SWMU 159	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
2. LOCATION (Coordinates or Station)	12. MANUFACTURER'S DESIGNATION OF DRILL
3. DRILLING AGENCY	13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
4. HOLE No. (As shown on drawing title and file number): SB-06	14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER: Tierra	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE: ☐ Vertical ☒ Inclined 40° 517°W Degrees from Vertical	16. DATE HOLE: 3-5-02 STARTED 1400 COMPLETED 1430
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING
9. TOTAL DEPTH OF HOLE / 10. SIZE AND TYPE OF BIT	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0-2.0- Dk brown silty fine sand w/ clay 2.0-5.0- Lt. red silty sand w/ Clay + gypsum	95%		1407 - Lith Sample Collected
	5		5.0-7.5- Lt red to red sand, silt and clay w/gypsum 7.5-10.0- Dk reddish brown clay w/silt + sand - silt/sand decreases ↓	95%		VOC 0.0 LEL 0.0 1415 ½ core
	10		Dark reddish brown clay w/silt and gypsum - silt decreases ↓	95%		Lith sample collected 1423 1 - 10.0-15.0 1 - 15.0
	15		Dark brown - reddish brown clay w/minor silt and gypsum. dark black organic material present - linear - veg-decomposition?			Chemical sample collected 19.0-20.0 Lith sample collected 1430
	20					

Note: Cement / bentonite grout in boring

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	
SHEET No.	1 OF 1
1. PROJECT	ORC LF SWMU 159
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-07
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	☐ Vertical ☒ Inclined 40 Degrees from Vertical N 3°E
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 3-5-02 / COMPLETED 1040
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0-1.0 - DK brown Silty sandy clay w/roots - 1.0-5.0 - Lt red Sandy (~~of~~ fine) silt and clay w/ abundant gypsum	95%		1048 - Lith collected VOC. 0.3 - @ 4.0-5.0
	5		5.0-8.0 - DK red-brown Clay w/ sand and silt + gyp. Sand silt decreases ↓ crumbly 8.0-10.0 - DK reddish brown Clay w/ silt + sand - much less sand + silt more gypsum	95%		1103 - Lith Sample Collected (2) 1 - 5.0-10.0 1 - 8.0-10.0
	10		DK reddish brown clay w/ silt and minor sand silt + sand decrease ↓	95%		1113 - Lith sample 0.5 VOC - @ 10.0-11.0
	15		DK. Reddish brown clay w/silt and v. minor sand - gypsum abundant increases ↓	95%		1124 - Chem Sample Collected 19.5-20.0' Lith sample collected
	20					

* organic material absent

Note: cement/bentonite grout in boring

DRILLING LOG	DIVISION	INSTALLATION	HOLE No. SB-08	SHEET No. 1 OF 1

1. PROJECT: ORC LF SWMU 0159	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
2. LOCATION (Coordinates or Station): ORC	12. MANUFACTURER'S DESIGNATION OF DRILL
3. DRILLING AGENCY	13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
4. HOLE No. (As shown on drawing title and file number)	14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER: Tierra	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE: ☐ Vertical ☒ Inclined 40° Degrees from Vertical — N10E	16. DATE HOLE: 3-5-02 — STARTED: 1140 — COMPLETED:
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING
9. TOTAL DEPTH OF HOLE — 10. SIZE AND TYPE OF BIT	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0-1.0 - DK brown sandy silty clay - w/ roots 1.0-3.0 - fine sand, silt and clay - minor ? 3.0-5.0 - DK reddish brown silty clay	95% — lith collected 0-1.0 - Lt red		1150 - Lith Samples collected 1.0-1.0 and 1.0-5.0
	5		reddish brown silty clay w/ gypsum - organic material absent	95%		1200 Lith sample collected
	10		10.0-13.5 - red silty clay - minor fine sand and gypsum 13.5-15.0 - DK reddish brown clay w/ silt - silt decreased ↓	95%		1205 Lith Sample collected 1-10-15 1-13.5-15.0
	15		DK reddish brown silty clay w/ gypsum - minor dark black organic material and roots.	95%		1214 - Chem sample + QC collected Lith sample collected
	20		Red - sandy silty clay w/ gypsum	95%		1223 - Chem sample collected. 24'-25' Lith sample collected
	25 26					

Note: Cement / bentonite grout in boring

DRILLING LOG	DIVISION	INSTALLATION	HOLE No. SB-11	SHEET No. 1 OF 1

1. PROJECT: ORC LF SWMU 159	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
2. LOCATION (Coordinates or Station)	12. MANUFACTURER'S DESIGNATION OF DRILL
3. DRILLING AGENCY	13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
4. HOLE No. (As shown on drawing title and file number): SB-11	14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER: Tierra	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE: [X] Vertical [ ] Inclined ____ Degrees from Vertical	16. DATE HOLE: STARTED 3-6-02 / COMPLETED 1105 (1055)
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING
9. TOTAL DEPTH OF HOLE: 7' / 10. SIZE AND TYPE OF BIT	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	5 – 7	[X]	Dark reddish brown Sandy Silty Clay w/ gypsum			Chemical Sample Collected 6.0'-7.0'

Note: Cement/bentonite grout in boring

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	SB-12
SHEET No.	1 of 1
1. PROJECT	ORC LF SWMU 159
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-12
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	[X] Vertical [ ] Inclined ____ Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	7'
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED: 3-6-02 ; COMPLETED: 1124 ; 1114
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0					
	5	[X]	DK brown silty Sandy clay w/gypsum.			Chemical Sample 6.0'-7.0'

Note: cement / bentonite grout in boring

DRILLING LOG	DIVISION	INSTALLATION	HOLE No. SB-13	SHEET No. OF

1. PROJECT: ORC LF SWMU 159
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE No. (As shown on drawing title and file number): SB-13
5. NAME OF DRILLER
6. DIRECTION OF HOLE: [X] Vertical [ ] Inclined _____ Degrees from Vertical
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 7'
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE: STARTED 3-6-02 1108; COMPLETED 1112
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0					
	5		reddish brown silty clay w/fine sand and gypsum			chemical sample collected 6.0-7.0 @ 1112

Note: Cement/bentonite grout in boring

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	SB-15
SHEET No.	1 of 1
1. PROJECT	ORC LF SWMU 159
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-15
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	[X] Vertical [ ] Inclined ____ Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED: ; COMPLETED: 3-6-02
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		0.0-3.0- red silt fine sand and clay w/ roots - 3.0-5.0- DK reddish brown silty clay w/gypsum	75%		Lith Sample collected
	5		5.0-9.0- Red sand (fine) silt and clay w/ gypsum - minor sand & silty clay 9.0-10.0 - reddish-brown clay w/ silt and organic material			-Chem Sample Collected - 6.0'-7.0' Lith Sample Collected 5.0-9.0-1 9.0-10.0-1
	10		DK reddish brown clay w/silt gypsum and dk blk organic material.			1015 - Chem. Sample collected 14.0-15.0 Lith samples (2) collected
	15		15-18.5- DK reddish brown clay with silt + fine sand gypsum 18.5-20.0 - Med to dk red fine sand, silt + clay w/gypsum sandy silty clay.			Chem Sample collected 1025
	20					

Note: Cement / bentonite grout boring

Temp 60°
Clear sky
no breeze

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	SB-13
SHEET No.	OF
1. PROJECT	ORC LF SWMU 159
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-13
5. NAME OF DRILLER	
6. DIRECTION OF HOLE	[X] Vertical [ ] Inclined ____ Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	7'
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 1108 / COMPLETED 1112
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0					
	5		reddish brown silty clay w/fine sand and gypsum			chemical sample collected 6.0-7.0 @ 1112

Note: Cement/bentonite grout in boring

DRILLING LOG

DIVISION	
INSTALLATION	
HOLE No.	SB-14
SHEET No.	1 OF 1
1. PROJECT	ORC SWMU 159
2. LOCATION (Coordinates or Station)	
3. DRILLING AGENCY	
4. HOLE No. (As shown on drawing title and file number)	SB-14
5. NAME OF DRILLER	Tierra
6. DIRECTION OF HOLE	☒ Vertical ☐ Inclined _____ Degrees from Vertical
7. THICKNESS OF OVERBURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	30'
10. SIZE AND TYPE OF BIT	
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL No. OF OVERBURDEN SAMPLES TAKEN	DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES	
15. ELEVATION GROUND WATER	
16. DATE HOLE	STARTED 3-6-02 0850 / COMPLETED 0930
17. ELEVATION TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING	
19. SIGNATURE OF INSPECTOR	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (description) d	% CORE RECOVERY e	BOX OR SAMPLE NUMBER f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
		Red	Silt, Sand, and clay w/gypsum	80%		Lith Sample Collected
	5		Dk red - Sand Silt + Clay w/ gypsum Sandy Silty clay	95%		Lith Sample 0904 Chem Sample 6'-7.0'
	10		Dk reddish brown clay w/ Silt and minor Sand and gypsum - minor dk Blk Organic			Lith and chemical Sample 0907
	15		Dk red-brown silty clay w/gypsum and minor organic material Silt decreases ↓	85%		chemical Sample @ 19-20 0915
	20		1'= Silty fine sand and clay Red brown Bottom 1' - Dk brown clay w/Gypsum	50%		Lith Sample Collected @ 0922
	25		Red & fine sand, silt, and clay Sandy silty clay			Lith Sample collected. 0930
	30					

Note: Cement/bentonite grout boring.

Temp: 55°
Clear - no breeze

APPENDIX F

Screening Level Ecological Risk Assessment

ATTACHMENT A

SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT
SCOPING ASSESSMENT
SITE ASSESSMENT CHECKLIST

INTRODUCTION

This checklist has been developed as a tool for gathering information about the facility property and surrounding areas, as part of the scoping assessment. Specifically, the checklist assists in the compilation of information on the physical and biological aspects of the site including the site environmental setting, usage of the site, releases at the site, contaminant fate and transport mechanisms, and the area's habitats, receptors, and exposure pathways. The completed checklist can then be used to construct the preliminary conceptual site exposure model (PCSEM) for the site. In addition, the checklist and PCSEM will serve as the basis for the scoping assessment report. Section III of this document provides further information on using the completed checklist to develop the PCSEM.

In general, the checklist is designed for applicability to all sites, however, there may be unusual circumstances which require professional judgment in order to determine the need for further ecological evaluation (*e.g.*, cave-dwelling receptors). In addition, some of the questions in the checklist may not be relevant to all sites. Some facilities may have large amounts of data available regarding contaminant concentrations and hydrogeologic conditions at the site, while other may have only limited data. In either case, the questions on the checklist should be addressed as completely as possible with the information available.

Habitats and receptors which may be present at the site can be identified by direct or indirect[1] observations and by contacting local and regional natural resource agencies. Habitat types may be determined by reviewing land use and land cover maps (LULC) which are available via the Internet at http://www.nationalatlas.gov/mapit.html. With regard to receptors, it should be noted that receptors are often present at a site even when they are not observed. Therefore, for the purposes of this checklist, it should be assumed that receptors are present if viable habitat is present. The presence of receptors should be confirmed by contacting one or several of the organizations listed below.

Sources of general information available for the identification of ecological receptors and habitats include:

- U.S. Fish and Wildlife Service (http://www.fws.gov)
- Biota Information System of New Mexico (BISON-M) maintained by the New Mexico Department of Game and Fish (NMGF) (http://151.199.74.229/states/nm.htm)
- U.S. Forest Service (USFS) (http://www.fs.fed.us/)
- New Mexico Forestry Division (NMFD) of the Energy, Minerals and Natural Resources Department (http://www.emnrd.state.nm.us/forestry/index.htm)

1 Examples of indirect observations that indicate the presence of receptors include: tracks, feathers, burrows, scat

- U.S. Bureau of Land Management (USBLM) (http://www.blm.gov/nhp/index.htm) or (http://www.nm.blm.gov/www/new_home_2.html)
- United States Geological Service (USGS) (http://www.usgs.gov)
- National Wetland Inventory Maps (http://wetlands.fws.gov)
- National Audubon Society (http://www.audobon.com)
- National Biological Information Infrastructure (http://biology.usgs.gov)
- Sierra Club (http://www.sierraclub.org)
- National Geographic Society (http://www.nationalgeographic.com)
- New Mexico Natural Heritage Program (http://nmnhp.unm.edu/)
- State and National Parks System
- Local universities
- Tribal organizations

INSTRUCTIONS FOR COMPLETING THE CHECKLIST

The checklist consists of four sections: Site Location, Site Characterization, Habitat Evaluation, and Exposure Pathway Evaluation. Answers to the checklist should reflect existing conditions and should not consider future remedial actions at the site. Completion of the checklist should provide sufficient information for the preparation of a PCSEM and scoping report and allow for the identification of any data gaps.

Section I - Site Location, provides general site information which identifies the facility being evaluated and gives specific location information. Site maps and diagrams, which should be attached to the completed checklist, are an important part of this section. The following elements should be clearly illustrated: 1) the location and boundaries of the site relative to the surrounding area, 2) any buildings, structures or important features of the facility or site, and 3) all ecological areas or habitats identified during completion of the checklist. It is possible that several maps will be needed to clearly and adequately illustrate the required elements. Although topographical information should be illustrated on at least one map, it is not required for every map. Simplified diagrams (preferably to scale) of the site and surrounding areas will usually suffice.

Section II - Site Characterization, is intended to provide additional temporal and contextual information about the site, which may have an impact on determining whether a certain area should be characterized as ecologically viable habitat or contains receptors. Answers to the questions in Section II will help the reviewer develop a broader and more complete evaluation of the ecological aspects of a site.

Section III - Habitat Evaluation, provides information regarding the physical and biological characteristics of the different habitat types present at or in the locality of the site. Aquatic features such as lakes, ponds, streams, arroyos and ephemeral waters can be identified by reviewing aerial photographs, LULC and topographic maps and during site reconnaissance visits. In New Mexico, there are several well defined terrestrial communities which occur naturally. Typical communities include wetlands, forest (e.g., mixed conifer,

ponderosa pine and pinyon juniper), scrub/shrub, grassland, and desert. Specific types of vegetation characterize each of these communities and can be used to identify them. Field guides are often useful for identifying vegetation types. A number of sites may be in areas that have been disturbed by human activities and may no longer match any of the naturally occurring communities typical of the southwest. Particularly at heavily used areas at facilities, the two most common of these areas are usually described as "weed fields" and "lawn grass". Vegetation at "weed fields" should be examined to determine whether the weeds consist primarily of species native to the southwest or introduced species such as Kochia. Fields of native weeds and lawn grass are best evaluated using the short grass prairie habitat guides.

The applicable portions of Section III of the checklist should be completed for each individual habitat identified. For example, the questions in Section III.A of the checklist should be answered for each wetland area identified at or in the locality of the site and the individual areas must be identified on a map or maps.

Section IV- Exposure Pathway Evaluation, is used to determine if contaminants at the site have the potential to impact habitat identified in Section III. An exposure pathway is the course a chemical or physical agent takes from a source to an exposed organism. Each exposure pathway includes a source (or release from a source), an environmental transport mechanism, an exposure point, and an exposure route. A complete exposure pathway is one in which each of these components, as well as a receptor to be exposed, is present. Essentially, this section addresses the fate and transport of contaminants that are known or suspected to have been released at the site. In most cases, without a complete exposure pathway between contaminants and receptors, additional ecological evaluation is not warranted.

Potential transport pathways addressed in this checklist include migration of contaminants via air dispersion, leaching into groundwater, soil erosion/runoff, groundwater discharge to surface water, and irradiation. Due to New Mexico's semi-arid climate, vegetation is generally sparse. The sparse vegetation, combined with the intense nature of summer storms in New Mexico, results in soil erosion that occurs sporadically over a very brief time frame. Soil erosion may be of particular concern for sites located in steeply sloped areas. Several questions within Section IV of this checklist have been developed to aid in the identification of those sites where soil erosion/runoff would be an important transport mechanism.

USING THE CHECKLIST TO DEVELOP THE PRELIMINARY CONCEPTUAL SITE EXPOSURE MODEL

The completed Site Assessment Checklist can be used to construct the PCSEM. An example PCSEM diagram is presented in Figure 1. The CSM illustrates actual and potential contaminant migration and exposure pathways to associated receptors. The components of a complete exposure pathway are simplified and grouped into three main categories: sources, release mechanisms, and potential receptors. As a contaminant migrates and/or is transformed in the environment, sources and release mechanisms may expand into primary, secondary, and tertiary levels. For example, Figure 1 illustrates releases from inactive

lagoons (primary sources) through spills (primary release mechanism), which migrate to surface and subsurface soils (secondary sources), which are then leached (secondary release mechanism) to groundwater (tertiary source). Similarly, exposures of various trophic levels to the contaminant(s) and consequent exposures via the food chain may lead to multiple groups of receptors. For example, Figure 1 illustrates groups of both aquatic and terrestrial receptors which may be exposed and subsequently serve as tertiary release mechanisms to receptors which prey on them.

Although completing the checklist will not provide the user with a readymade PCSEM, a majority of the components of the PCSEM can be found in the answers to the checklist. It is then up to the user to put the pieces together into a comprehensive whole. The answers from Section II of the checklist, Site Characterization, can be used to identify sources of releases. The answers to Section IV, Exposure Pathway Evaluation, will assist users in tracing the migration pathways of releases in the environment, thus helping to identify release mechanisms and sources. The results of Section III, Habitat Evaluation, can be used to both identify secondary and tertiary sources and to identify the types of receptors which may be exposed. Appendix B of the NMED's *Guidance for Assessing Ecological Risks Posed by Chemicals: Screening-Level Ecological Assessment* also contains sample food webs which may be used to develop the PCSEM.

Once all of the components have been identified, one can begin tracing the steps between the primary releases and the potential receptors. For each potential receptor, the user should consider all possible exposure points (e.g., prey items, direct contact with contaminated soil or water, etc.) then begin eliminating pathways which are not expected to result in exposure to the contaminant at the site. Gradually, the links between the releases and receptors can be filled in, resulting in potential complete exposure pathways.

For further guidance on constructing a PCSEM, consult the NMED's *Guidance for Assessing Ecological Risks Posed by Chemicals: Screening-Level Ecological Assessment* (2000), and EPA's Office of Solid Waste and Emergency *Response's Soil Screening Guidance: User's Guide* (1996).

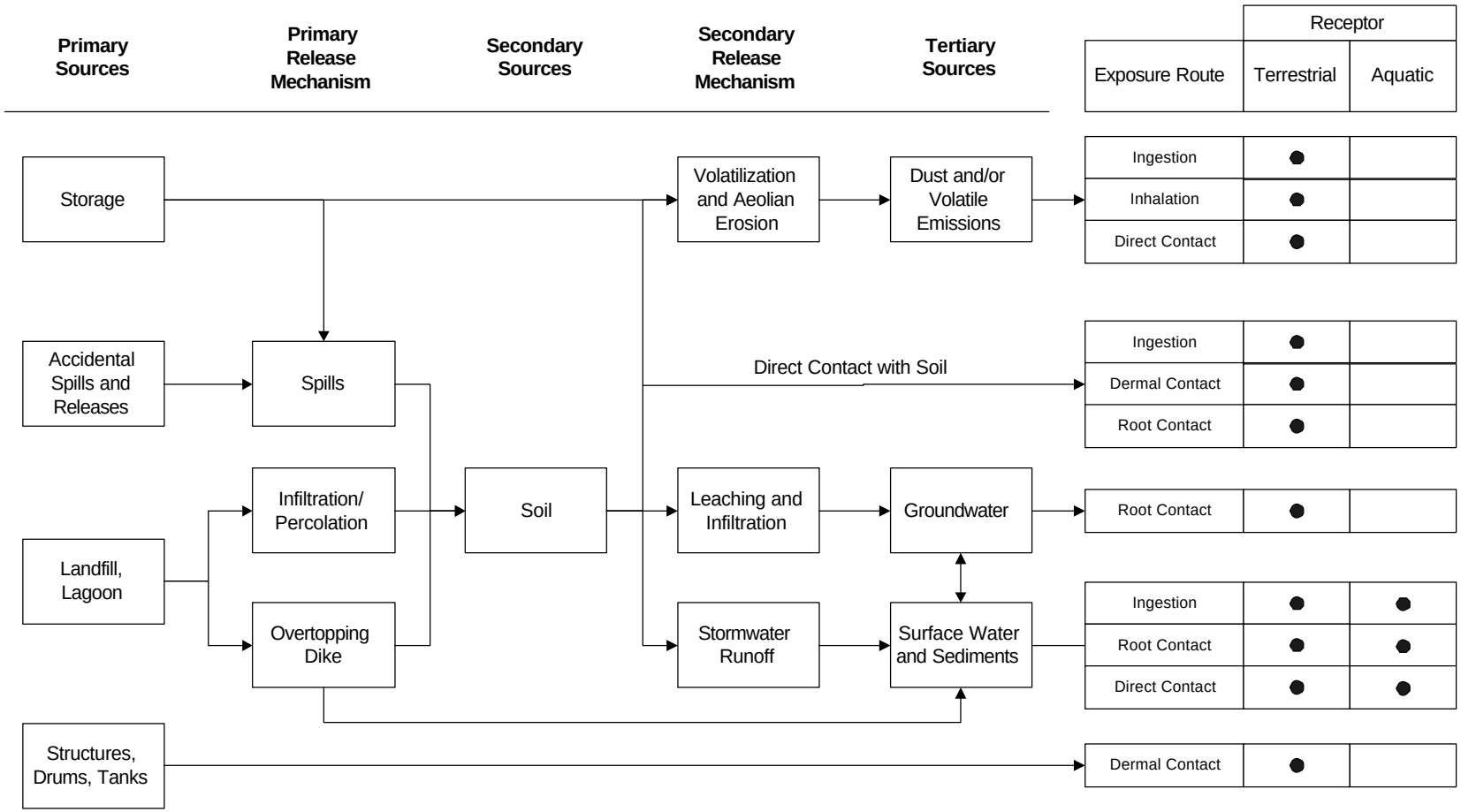

Figure 1. Example Preliminary Conceptual Site Exposure Model Diagram

NEW MEXICO ENVIRONMENT DEPARTMENT
SITE ASSESSMENT CHECKLIST

I. SITE LOCATION

1. Site Name: Oscura Range Center Construction Landfill (SWMU 159)
   US EPA I.D. Number: NM2750211235
   Location: Tularosa Basin within White Sands Missile Range
   County: Lincoln
   City: NA State: New Mexico

2. Latitude: 33.529147482
   Longitude: 106.168100537

3. Attach site maps, including a topographical map, a diagram which illustrates the layout of the facility (e.g., site boundaries, structures, etc.), and maps showing all habitat areas identified in Section III of the checklist. Also, include maps which illustrate known release areas, sampling locations, and any other important features, if available. Site maps are included in *Characterization Report for the RCRA Facility Investigation at the Former Oscura Range Center Construction Landfill, Solid Waste Management Unit 159* of which this Site Assessment Checklist is appended.

II. SITE CHARACTERIZATION

1. Indicate the approximate area of the site (i.e., acres or sq. ft) The landfill area consists of approximately 2.5 acres affected by the landfill. The landfill itself covers approximately 0.07 acres (3000 sq. ft) surface area.

2. Provide an approximate breakdown of the land uses on the site:

_____% Heavy Industrial	_____% Light Industrial	_____% Urban
_____% Residential	_____% Rural	_____% Agricultural[b]
_____% Recreational[a]	___% Undisturbed	100% Other[c]

[a]For recreational areas, please describe the usage of the area (e.g., park, playing field, etc.): N/A

[b]For agricultural areas, please list the crops and/or livestock which are present: N/A

[c]For areas designated as "other", please describe the usage of the area:
The landfill is within the White Sands Missile Range and designated for Military testing. There are no industrial, residential, or recreational areas near the landfill. The landfill is within an undisturbed area on the White Sands Missile Range.

3. Provide an approximate breakdown of the land uses in the area surrounding the site. Indicate the radius (in miles) of the area described: one (1) mile

_____% Heavy Industrial	_____% Light Industrial	_____% Urban
_____% Residential	_____% Rural	_____% Agricultural[b]
_____% Recreational[a]	____% Undisturbed	__100% Other [c]

[a]For recreational areas, please describe the usage of the area (e.g., park, playing field, golf course, etc.):
N/A

[b]For agricultural areas, please list the crops and/or livestock which are present:
N/A

[c]For areas designated as "other", please describe the usage of the area:
Within the one mile radius surrounding the Site there are dirt roads used for accessing certain areas on the Range for testing. The closest building or structure to the site is an Army Radar approximately 1.2 miles away.

4. Describe reasonable and likely future land and/or water use(s) at the site.
Potential military use of the site and potential development of additional sites for future military testing activities. No use of ground water at the site is anticipated due to its extremely high total dissolved solids rating (TDS) (>3,000 ppm).

5. Describe the historical uses of the site. Include information on chemical releases that may have occurred as a result of previous land uses. For each chemical release, provide information on the form of the chemical released (i.e., solid, liquid, vapor) and the known or suspected causes or mechanism of the release (i.e., spills, leaks, material disposal, dumping, explosion, etc.).

The landfill was used for less than one year in 1987 to dispose of construction debris from the Oscura Range Center (located approximately 2 miles away. The land was undisturbed prior to construction of the landfill. There are no known chemical releases from the landfill. Soil sampling during the RFI did not detect a release of contaminants from the landfill.

If any movement of soil has taken place at the site, describe the degree of the disturbance. Indicate the likely source of any disturbances (e.g., erosion, agricultural, mining, industrial activities, removals, etc.) and estimate when these events occurred.
Approximately 1,100 cubic yards of soil were removed for the landfill cell in 1987. The soil was used to cover the landfill cell. Excess soil remains on site to the north of the landfill.

6. Describe the current uses of the site. Include information on recent (previous 5 years) disturbances or chemical releases that have occurred. For each chemical release, provide information on the form of the chemical released and the causes or

mechanism of the release.
__The site has not been used since 1987. There are no known conatminant releases from the landfill. The RFI did not detect a release from the landfill.

7. Identify the location or suspected location of chemical releases at the site. Provide an estimate of the distance between these locations and the areas identified in Section III.
The RFI did not detect a release of contaminants from the landfill.

8. Identify the suspected contaminants of concern (COCs) at the site. If known, include the maximum contaminant levels. Please indicate the source of data cited (e.g., RFI, confirmatory sampling, etc.).
The RFI did not detect any COCs at the site. All detected analytes were well below NMED SSLs or within background concentrations. The only known debris to be disposed at the site was construction debris (concrete, iron, wood) and possible scrap metal from spent missile components. However, elevated concentrations of phophorus were detected at 15 ft bgs. The concentrations of phosphorus could likely be natural variations in nutrient concentrations across the site.

9. Identify the media (e.g., soil (surface or subsurface), surface water, air, groundwater) which are known or suspected to contain COCs. The RFI did not detect COCs in the subsurface soils.

10. Indicate the approximate depth to groundwater (in feet below ground surface [(bgs)].
The approximate depth to ground water at the site is 200 ft bgs. Estimate based on known ground water depth at the Oscura Bombing Range located over 2 miles away.

11. Indicate the direction of groundwater flow (e.g., north, southeast, etc.)

The expected ground water flow direction is to the south.

III. HABITAT EVALUATION

III.A Wetland Habitats

Are any wetland[2] areas such as marshes or swamps on or adjacent to the site?

☐ Yes ☒ No

If yes, indicate the wetland area on the attached site map and answer the following questions regarding the wetland area. If more than one wetland area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual wetland area. Distinguish between wetland areas by using names or other designations (such as location), and clearly identify each area on the site map. Also, obtain and attach a National Wetlands Inventory Map (or maps) to illustrate each wetland area.

Identify the sources of the observations and information (e.g., National Wetland Inventory, Federal or State Agency, USGS topographic maps) used to make the determination that wetland areas are or are not present.
The site is located centrally in the Tularosa Basin. Local resource experts including Mr. David Anderson (White Sands Missile Range Land Manager WSMR Directorate of Environmental Services) and Doug Burkett (Natual Resouce Program Manager – MEVATEC Corporation) indicated that there are no wetlands on or adjacent to the Site. USGS Topographic maps and aerial photographs consulted also support this finding.

If no wetland areas are present, proceed to Section III.B.

2Wetlands are defined in 40 CFR §232.2 as " Areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Examples of typical wetlands plants include: cattails, cordgrass, willows and cypress trees. National wetland inventory maps may be available at http:\\nwi.fws.gov. Additional information on wetland delineation criteria is also available from the Army Corps of Engineers.

III.B Aquatic Habitats
III.B.1 Non-Flowing Aquatic Features

Are any non-flowing aquatic features (such as ponds or lakes) located at or adjacent to the site?

☐ Yes ☒ No

If yes, indicate the aquatic feature on the attached site map and answer the following questions regarding the non-flowing aquatic features. If more than one non-flowing aquatic feature is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual aquatic feature. Distinguish between aquatic features by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.B.2.

III.B.2 Flowing Aquatic Features

Are any flowing aquatic features (such as streams or rivers) located at or adjacent to the site?

? Yes ☒ No

If yes, indicate the aquatic feature on the attached site map and answer the following questions regarding the flowing aquatic features. If more than one flowing aquatic feature is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual aquatic feature. Distinguish between aquatic features by using names or other designations, and clearly identify each area on the site map

If no, proceed to Section III.C.

III.C Terrestrial Habitats
III.C.1 Wooded

Are any wooded areas on or adjacent to the site? ? Yes ☒ No

If yes, indicate the wooded area on the attached site map and answer the following questions. If more than one wooded area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual wooded area. Distinguish between wooded areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.2.

III.C.2 Shrub/Scrub

Are any shrub/scrub areas on or adjacent to the site? [X] Yes ? No

If yes, indicate the shrub/scrub area on the attached site map and answer the following questions. If more than one shrub/scrub area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual shrub/scrub area. Distinguish between shrub/scrub areas, using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.3.

Shrub/Scrub Area Questions

[X] Onsite [ ] Offsite

Name or Designation: Chihuahuan Desert scrub

1. Estimate the approximate size of the shrub/scrub area (in acres or sq. ft.).Surrounding the Site there are tens of thousands of acres of Chihuahuan desert scrub.

2. Indicate the dominant type of shrub/scrub vegetation present, if known.

   Dominant vegetation at and surrounding the site includes creosote bush (*Larrea tridentata*), tarbush (*Flourencia cernua*) and dropseed grasses (*Sporobolus* species). The site itself is vegetated primarily with invasive species including broom snakeweed (*Gutierrizia sarothrae*) and three awn grasses (*Aristida* sp.) A complete list of species detected, and photographs taken at the Site is presented in the ***Site Visit Report*** completed as part of this Environmental Site Assessment.

3. Estimate the vegetation density of the shrub/scrub area.

   - ❑ Dense (i.e., greater than 75% vegetation)
   - ✓ Moderate (i.e., 25% to 75% vegetation)
   - ❑ Sparse (i.e., less than 25% vegetation)

4. Indicate the approximate average height of the scrub/shrub vegetation.

   - ❑ 0-2 feet
   - ✓ 2-5 feet
   - ❑ >5 feet

5. Animals observed in the shrub/scrub area or suspected to be present based on indirect evidence or file material:
   - ✓ Birds
   - ✓ Mammals
   - ✓ Reptiles (e.g., snakes, lizards)
   - ❑ Amphibians (e.g., toads, salamanders)

Specify species, if known:

Some of the most common species at the Site that were detected during the Site visit included coyote (*Canis latrans*), oryx (*Oryx gazella*), and desert cottontail rabbit (*Sylvilagus audubonii*). Other animals detected included *Amphispiza bilineata* - Black-Throated Sparro, and turkey vultures (*Cathartes aura*). A complete list of species detected at the Site is presented in the ***Site Visit Report*** completed as part of this Environmental Site Assessment.

III.C.3 Grassland

Are any grassland areas on or adjacent to the site? ? Yes [X] No

If yes, indicate the grassland area on the attached site map and answer the following questions. If more than one grassland area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual grassland area. Distinguish between grassland areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.4.

III.C.4 Desert

Are any desert areas on or adjacent to the site? [X] Yes ? No

If yes, indicate the desert area on the attached site map and answer the following questions. If more than one desert area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual desert area. Distinguish between desert areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.5.

Desert Area Questions

[X] Onsite [ ] Offsite

Name or Designation: The Site is located in the Chihuahuan Desert

1. Estimate the approximate size of the desert area (in acres or sq. ft.). The Site is surrounded by tens of thousands of acres of Chihuahuan Desert.

2. Describe the desert area (e.g., presence or absence of vegetation, vegetation types, presence/size of rocks, sand, etc.)
Many volumes of literature have been written on the natural biota of the Chihuahuan Desert. Detailed descriptions about the biotic communities within WSMR can be

found in the WSMR Integrated Natural Resource Management Plan. Habitats directly associated with this Site include typical desert scrub communities.

3. Animals observed in the desert area or suspected to be present based on indirect evidence or file material:

- ✓ Birds
- ✓ Mammals
- ✓ Reptiles (e.g., snakes, lizards)
- ✓ Amphibians (e.g., toads, salamanders)

Specify species, if known:

Species lists compiled and developed by resource experts on WSMR indicate that there are over 1,000 species of vegetation, nearly 300 species of birds, 55 species of reptiles and amphibians, and 70 species of mammals confirmed within WSMR (Pers. comm. D. Anderson and D. Burkett). Invertebrate assemblages within WSMR are poorly documented but it is likely that there are thousands of species.

III.C.5 Other

1. Are there any other terrestrial communities or habitats on or adjacent to the site which were not previously described?

? Yes [X] No

If yes, indicate the "other" area(s) on the attached site map and describe the area(s) below. Distinguish between onsite and offsite areas. If no, proceed to Section III.D.

III.D Sensitive Environments and Receptors

1. Do any other potentially sensitive environmental areas[3] exist adjacent to or within 0.5 miles of the site? If yes, list these areas and provide the source(s) of information used to identify sensitive areas. *Do not answer "no" without confirmation from the U.S. Fish and Wildlife Service and appropriate State of New Mexico division.* No. Consultation with the latest information available through WSMR resource Managers and the latest literature available through the USFWS and NMDGF indicate that no sensitive environmental areas exist within 0.5 miles of the Site.

2. Are any areas on or near (i.e., within 0.5 miles) the site which are owned or used by local tribes? If yes, describe. *Contact the Tribal Liason in the Office of the Secretary (505)827-2855 to obtain this information.*
No

4. Does the site serve or potentially serve as a habitat, foraging area, or refuge by rare, threatened, endangered, candidate and/or proposed species (plants or animals), or any otherwise protected species? If yes, identify species. *This information should be obtained from the U.S. Fish and Wildlife Service and appropriate State of New Mexico division.*
No. The latest lists of State and Federal species of concern, candidate, threatened, and endangered species were consulted. Resource experts familiar with the sites confirmed that none of these species utilize the habitats at or adjacent to the Site.

3. Is the site potentially used as a breeding, roosting or feeding area by migratory bird species? If yes, identify which species.
Yes. There are hundreds of species of migrating birds that may potentially roost or feed at or near the Site. Several species of birds may nest near the Site including black throated sparrow, Say's phoebe (*Sayornis sayi*)and mourning dove (*Zaenada asitica*).

4. Is the site used by any ecologically[4], recreationally, or commercially important

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3 Areas that provide unique and often protected habitat for wildlife species. These areas are typically used during critical life stages such as breeding, hatching, rearing of young and overwintering. Refer to **Table 1** at the end of this document for examples of sensitive environments.

species? If yes, explain.
Yes. Gemsbok *(Oryx gazella)* frequent all portions of the Missile Range and do occasionally walk through the Site. Gemsbok are harvested by recreational hunters in many portions of the Range including near this Site.

IV. EXPOSURE PATHWAY EVALUATION

1. Do existing data provide sufficient information on the nature, rate, and extent of contamination at the site?
   - ✓ Yes
   - ❑ No
   - ❑ Uncertain

   Please provide an explanation for your answer: The RFI did not detect contamination resulting from the landfill.

2. Do existing data provide sufficient information on the nature, rate, and extent of contamination in offsite affected areas?

   - ✓ Yes
   - ❑ No
   - ❑ Uncertain
   - ❑ No offsite contamination

Please provide an explanation for your answer: The RFI did not detect contamination resulting from the landfill.

3. Do existing data address potential migration pathways of contaminants at the site?

   - ✓ Yes
   - ❑ No
   - ❑ Uncertain

   Please provide an explanation for your answer: Existing data collected during the RFI indicate that there are no contaminant migration pathways from the site.

4. Do existing data address potential migration pathways of contaminants in offsite affected areas?

   - ❑ Yes
   - ❑ No
   - ❑ Uncertain
   - ✓ No offsite contamination

   Please provide an explanation for your answer: No offsite contamination is evident based on results of the RFI.

5. Are there visible indications of stressed habitats or receptors on or near (i.e., within 0.5 miles) the site that may be the result of a chemical release? If yes, explain. Attach photographs if available.
No. The area affected by the landfill has less scrub and more grasses and invasive species of vegetation than the surrounding area due to the earth moving activity associated with the landfill in 1987. Vegetation is repopulating the landfill area.

6. Is the location of the contamination such that receptors might be reasonably expected to come into contact with it? For soil, this means contamination in the soil 0 to 5 feet below ground surface (bgs). If yes, explain.
No. There is no evidence to indicate that the landfill debris other than concrete and metallic debris in the ramp area exists from 0 to 5 ft bgs.

7. Are receptors located in or using habitats where chemicals exist in air, soil, sediment or surface water? If yes, explain.
Although no chemical contaminants were detected during the RFI, plants are growing in close proximity and over the landfill cell. If chemical contaminants were present, root growth may extend into possible affected soils.

8. Could chemicals reach receptors via groundwater? Can chemicals leach or dissolve to groundwater? Are chemicals mobile in groundwater? Does groundwater discharge into receptor habitats? If yes, explain.
No. There were no chemical contaminants detected during the RFI. However, if contaminants are present, depth to ground water is approximately 200 ft bgs making it unlikely to reach with the amount of rainfall in this region. Additionally, a clay layer exists approximately 25 ft bgs which would retard the leaching process.

9. Could chemicals reach receptors through runoff or erosion? Answer the following questions:

What is the approximate distance from the contaminated area to the nearest watercourse or arroyo?

- ❑ 0 feet (i.e., contamination has reached a watercourse or arroyo)
- ❑ 1-10 feet
- ❑ 11-20 feet
- ❑ 21-50 feet
- ❑ 51-100 feet
- ❑ 101-200 feet
- ❑ > 200 feet
- ✓ >500 feet
- ❑ >1000 feet

What is the slope of the ground in the contaminated area?

- ✓ 0-10%
- ❑ 10-30%
- ❑ > 30%

What is the approximate amount of ground and canopy vegetative cover in the contaminated area?

- ✓ < 25%
- ❑ 25-75%
- ❑ > 75%

Is there visible evidence of erosion (e.g., a rill or gully) in or near the contaminated area?

- ❑ Yes
- ✓ No
- ❑ Do not know

Do any structures, pavement, or natural drainage features direct run-on flow (i.e., surface flows originating upstream or uphill from the area of concern) into the contaminated area?

- ❑ Yes
- ✓ No
- ❑ Do not know

10. Could chemicals reach receptors through the dispersion of contaminants in air (e.g., volatilization, vapors, fugitive dust)? If yes, explain.
No. If contaminants were present, they would be buried beneath the landfill native soil cover.

11. Could chemicals reach receptors through migration of non-aqueous phase liquids (NAPLs)? Is a NAPL present at the site that might be migrating towards receptors or habitats? Could NAPL discharge contact receptors or their habitat?
No. There are no NAPL contaminants on site.

12. Could receptors be impacted by external irradiation at the site? Are gamma emitting radionuclides present at the site? Is the radionuclide contamination buried or at the surface?
No radionuclide contamination is expected to be present at the site.

PHOTOGRAPHIC DOCUMENTATION

During the site visit(s), photographs should be taken to document the current conditions at the site and to support the information entered in the checklist. For example, photographs may be used to document the following:

- The nature, quality, and distribution of vegetation at the site
- Receptors or evidence of receptors
- Potentially important ecological features, such as ponds and drainage ditches
- Potential exposure pathways
- Any evidence of contamination or impact

The following space may be used to record photo subjects.

Photographs of the site are included in the ***Site Visit Report*** completed as part of this Environmental Site Assessment.

SUMMARY OF OBSERVATIONS AND SITE SETTING

Include information on significant source areas and migration pathways that are likely to constitute complete exposure pathways.

The Site exists in a typical and widespread desert scrub community in the Tularosa Basin within White Sands Missile Range. Habitat present is not considered rare or sensitive by any of the regulating or management agencies including the USFWS, NMDGF, and WSMR Directorate of Environment and Safety. The habitat present does not harbor listed or sensitive species. The RFI indicates no contamination present at the site. A complete exposure pathway would exist where vegetation roots may come into contact with soils if contamination was present. No plants at or near the Site showed any external signs of stress due to contact with the contaminant. Potential plants that could be exposed include those in the complete species list for this Site visit. All are common and widespread throughout the Chihuahuan Desert.

Checklist Completed by: Doug Burkett and Bradley Davis

Affiliation: MEVATEC Corporation

Authors Assisted by: David Black

Date: 31 July 2002

TABLE 1
EXAMPLES OF SENSITIVE ENVIRONMENTS

National Parks and National Monuments

Designated or Administratively Proposed Federal Wilderness Areas

National Preserves

National or State Wildlife Refuges

National Lakeshore Recreational Areas

Federal land designated for protection of natural ecosystems

State land designated for wildlife or game management

State designated Natural Areas

Federal or state designated Scenic or Wild River

All areas that provide or could potentially provide critical habitat[1] for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern

All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes

All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)

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1 Critical habitats are defined by the Endangered Species Act (50 CFR §424.02(d)) as:

> 1) Specific areas within the geographical area currently occupied by a species, at the time it is listed in accordance with the Act, on which are found those physical or biological features (I) essential to the conservation of the species and (ii) that may require special management considerations or protection, and 2) Specific areas outside the geographical area occupied by a species at the time it is listed upon a determination by the Secretary [of Interior] that such areas are essential for the conservation of the species.

All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)

All areas that provide or could potentially provide habitat for song birds as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)

All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)

All areas that provide or could potentially provide habitat for horned toads and Bullfrogs as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, resp.)

All perennial waters (e.g., rivers, lakes, playas, sloughs, ponds, etc)

All ephemeral drainage (e.g., arroyos, puddles/pools, intermittent streams, etc) that provide significant wildlife habitat or that could potentially transport contaminants off site to areas that provide wildlife habitat

All riparian habitats

All perennial and ephemeral wetlands (not limited to jurisdictional wetlands)

All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle.

ATTACHMENT B

ECOLOGICAL SITE EXCLUSION CRITERIA CHECKLIST AND DECISION TREE

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

Are any of the below-listed sensitive environments at, adjacent to, or in the locality1 of the affected property? No.

- National Park or National Monument
- Designated or administratively proposed Federal Wilderness Area
- National Preserve
- National or State Wildlife Refuge
- Federal or State land designated for wildlife or game management
- State designated Natural Areas
- All areas that are owned or used by local tribes
- All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: Yes

- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are not considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

1. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? No.

II. Receptors

1. Is any part of the affected property used for habitat, foraging area, or refuge by any rare, threatened, or endangered species (plant *or* animal), or otherwise protected species (e.g., raptors, migratory birds)? No.

2. Is any part of the affected property used for habitat, foraging area, or refuge by any species used as a recreational (e.g., game animals) and/or commercial resource? Yes.

3. Is any part of the affected property used for habitat, foraging area, or refuge by any plant or animal species? This includes plants considered "weeds" and opportunistic insect and animal species (such as cockroaches and rats) if they are used as a food source for other species in the area. Yes.

III. Exposure Pathways

1. Could receptors be impacted by contaminants via direct contact? No. Landfill debris buried beneath surface > 5 ft bgs.

   Is a receptor located in or using an area where it could contact contaminated air, soil3, or surface water? No.

For Questions 2 and 3, note that one must answer "yes" to all three bullets in order to be directed to the "exclusion denied" box of the decision tree. This is because answering "no" to one of the questions in the bullet list indicates that a complete exposure pathway is not present. For example, in Question 2, if the chemical cannot leach or dissolve to groundwater (bullet 1), there is no chance of ecological receptors being exposed to the chemical through contact with contaminated groundwater. Similarly, the responses to the questions in Question 4 determine whether a complete pathway exists for exposure to NAPL.

2. Could receptors contact contaminants via groundwater?
   - Can the chemical leach or dissolve to groundwater4? No. No chemical contaminants were identified during the RFI. Additionally, Ground water is approx. 200 ft bgs.

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3 For soil, this means contamination less than 5 feet below ground surface (bgs).

4 Information on the environmental fate of specific chemicals can be found on the Internet at *http://www.epa.gov/opptintr/chemfact/* or at a local library in published copies of the *Hazardous Substances Data Bank*.

- Can groundwater mobilize the chemical? No. No chemical contaminants were identified during the RFI. Additionally, Ground water is approx. 200 ft bgs.
- Could (does) contaminated groundwater discharge into known or potential receptor habitats? No. No contamination was detected beneath the landfill, therefore ground water is not expected to be contaminated.

3. Could receptors contact contaminants via runoff (i.e., surface water and/or suspended sediment) or erosion by water or wind?
   - Are chemicals present in surface soils? No chemical contaminants were detected in surface or subsurface soils.
   - Can the chemical be leached from or eroded with surface soils? No chemical contaminants were detected in surface or subsurface soils.
   - Is there a receptor habitat located downgradient of the leached/eroded surface soil? No chemical contaminants were detected in surface or subsurface soils.

4. Could receptors contact contaminants via migration of non-aqueous phase liquids (NAPL)?
   - Is NAPL present at the site? No.
   - Is NAPL migrating toward potential receptors or habitats? No.
   - Could NAPL discharge impact receptors or habitats? No.

Figure 1 -Ecological Exclusion Criteria Decision Tree

(Refer to corresponding checklist for the full text of each question)

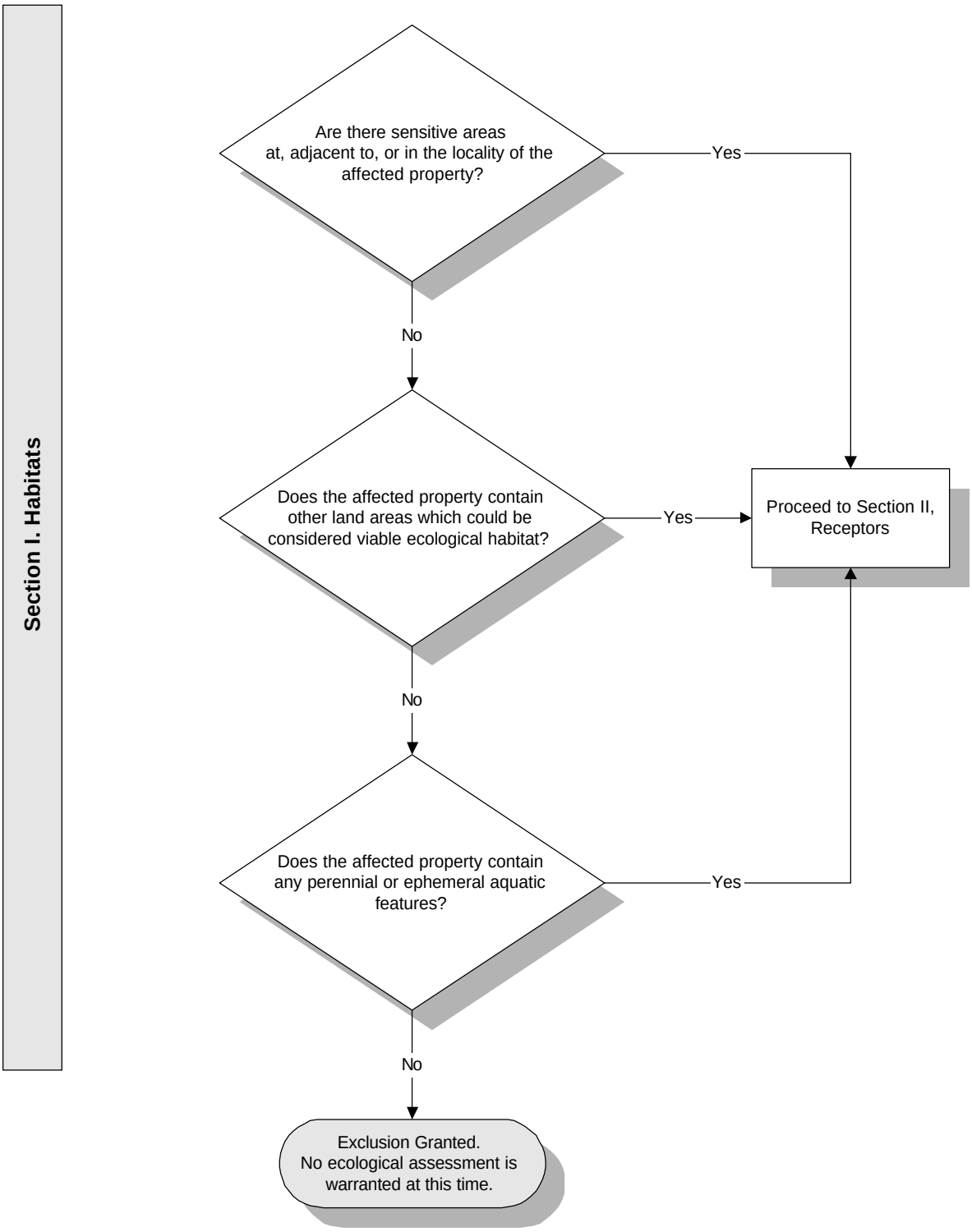


Figure 1 - Exclusion Criteria Decision Tree (continued)

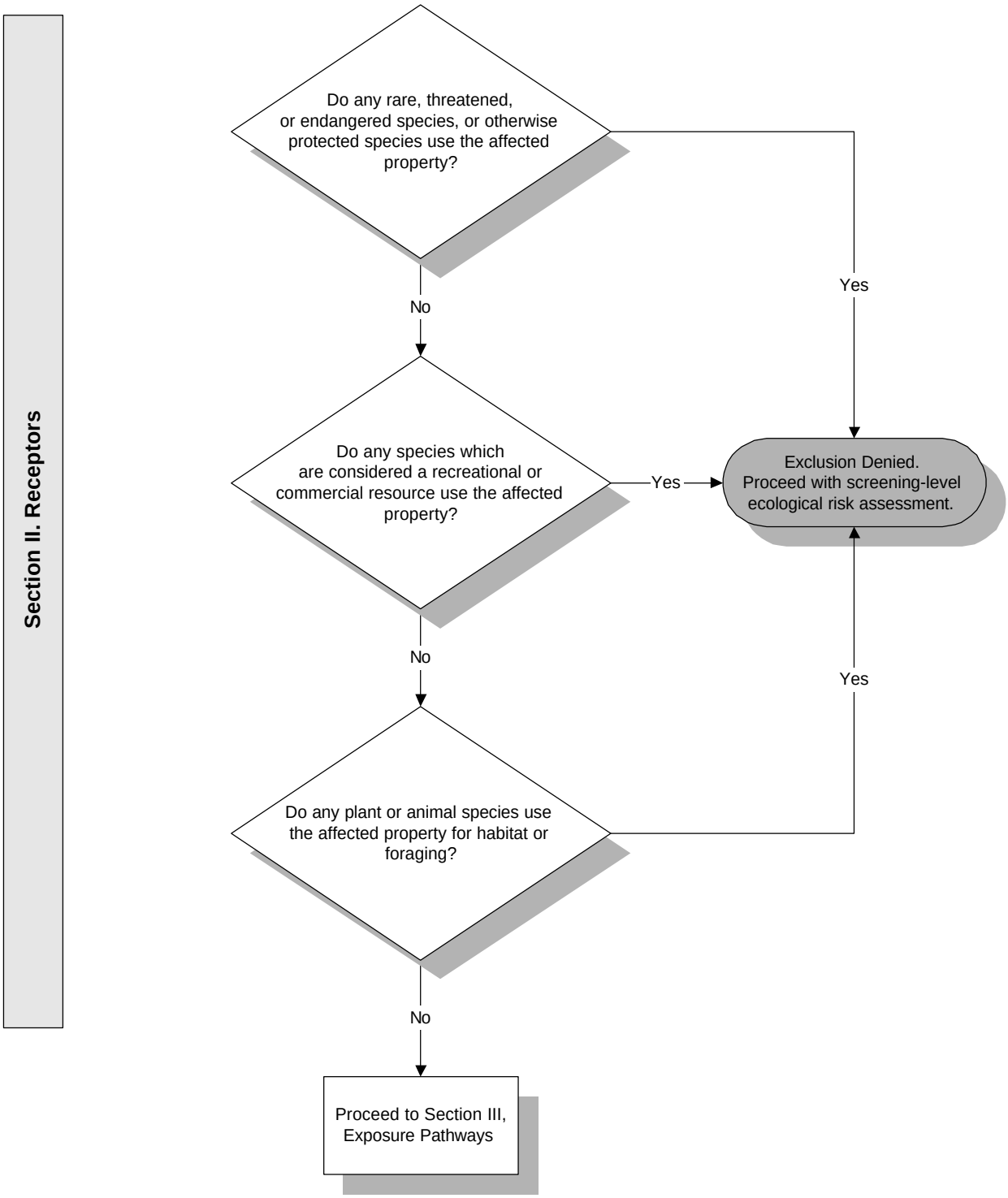
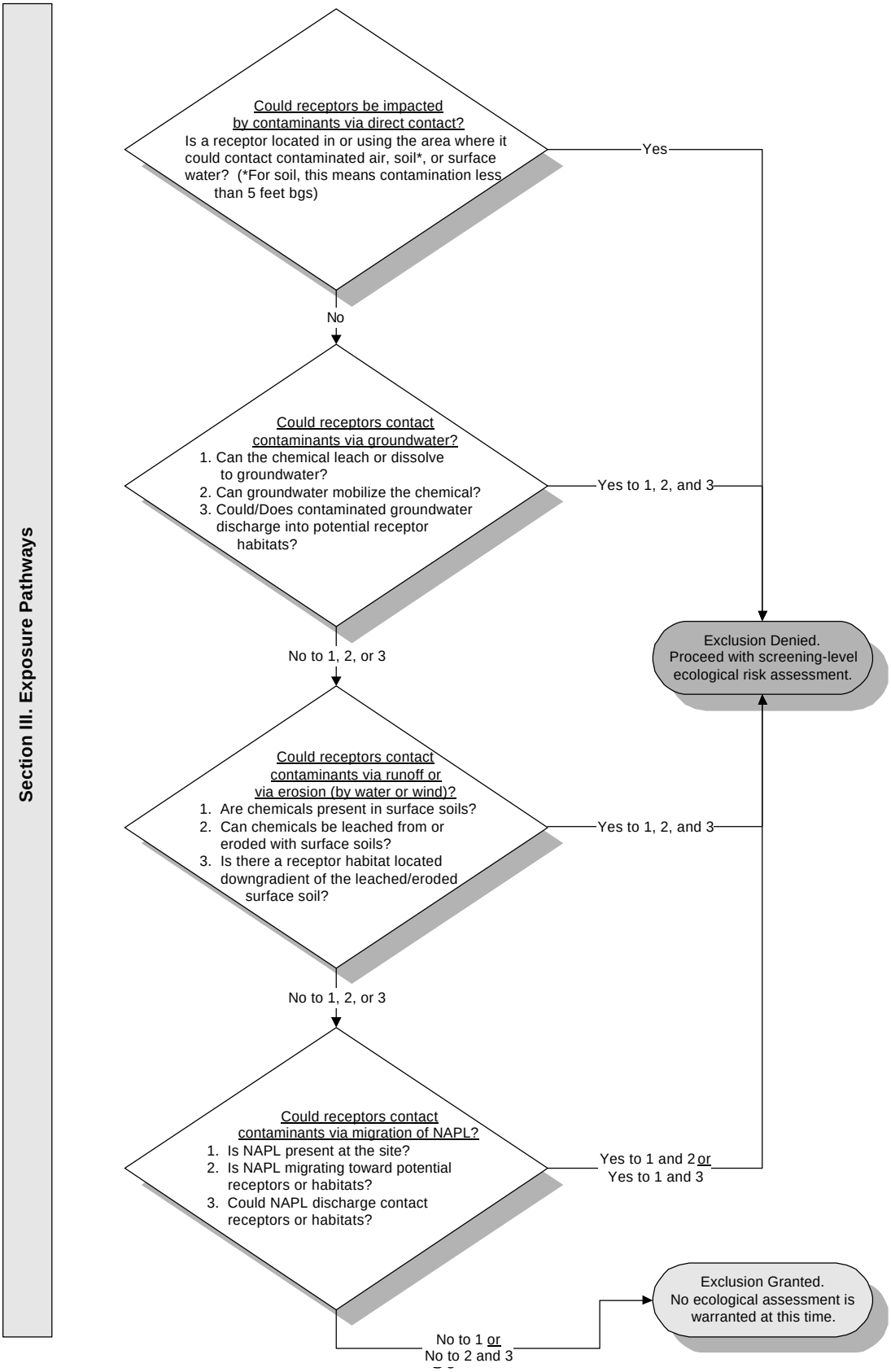


Figure 1 - Exclusion Criteria Decision Tree (continued)



Site Visit Report for
Oscura Range Center Construction Landfill
White Sands Missile Range
New Mexico

July 2002

Prepared by
MEVATEC Corporation

1.0 Introduction

A site visit was conducted at Oscura Range Center Landfill site to ascertain viable ecological habitat, biological receptors associated with the site, and potential exposure pathways. This visit was conducted in order to collect data and descriptive information necessary for completing the Screening Level Ecological Risk Assessment and Scoping Site Assessment Checklist as required by the New Mexico Environment Department (NMED).

2.0 Methods

Aerial photographs and topographic maps were scrutinized to determine landscape features and location and distance to existing habitats of concern that may be considered sensitive or harbor threatened or endangered species.

Natural resource experts familiar with the site were consulted to aid in assessment of potential sensitive habitats, and additional ecological receptors that may be expected at the Site. The latest lists of State and Federally listed species of special status (sensitive, of concern, threatened, or endangered) were consulted and none of the species were found to be likely to inhabit the site.

Observers conducted a pedestrian survey at the landfill site including a perimeter area around the site recording vegetation and fauna within the landfill area and around the periphery of the site. A total area of approximately 2.5 hectares (ha) was carefully examined. A list of vegetation and animals detected is presented in appendix A. Digital photographs were taken to record current condition of the habitat associated with the Site.

3.0 Results

After literature review and expert interview no threatened or endangered species or sensitive habitats were anticipated to exist at or near the site. Subsequent on site reconnaissance detected no sensitive species or their habitats. Habitats associated with the site are not considered ecologically sensitive or unique to this portion of the Chihuahuan desert. No ecologically significant habitats exist within 25 kilometers of the site. The site exists in a typical and widespread desert scrub community in the Tularosa Basin within White Sands Missile Range. Habitat present is not considered rare or sensitive by any of the regulating or management agencies including the USFWS, NMDGF, and WSMR Directorate of Environment and Safety.

The site itself has been disturbed through mechanical manipulation, most recently from covering the landfill in 1987. Some slight disturbance from installation of test wells to determine the whether contaminants exist.

A complete exposure pathway exists where vegetation roots may come into contact with contaminated soils. No stained soils were detected at the site and no plants at or near the

site showed any external signs of stress due to contact with any contaminant. Soil sampling at the site has failed to detect any contaminants at the site.

Photographs were taken during the on-site visit to record current environmental conditions and representative habitats present (Figures 1 and 2).

Figure 1. View of habitat looking east from periphery of landfill area

Figure 2. View of habitat looking north within disturbed portion of the landfill site

4.0 Conclusions

Based on information gathered during this investigation, including that gained through the RCRA Facility Investigation (RFI), it appears that there is no reasonable potential for detrimental impact to potential ecological receptors. No contaminants or spills were detected during the RFI and there is no apparent potential for affects to the environment or environmental receptors.

APPENDIX A

Species List for Oscura Range Center Construction Landfill Site

Vegetation
Arirstida purpurea – purple three-awn
Ephidra torreyana-mormon tea
Gutierrezia sarothrae-broom snakeweed
Larrea tridentata-creosotebush
Opuntia clavata-club cholla
Opuntia imbricata- tree cholla
Opuntia leptocolis-pencil cholla
Opuntia violacea- prickly pear
Prosopis glandulosa-honey mesquite
Rhus microphyla-little leaf sumac
Sphaeralcea coccinea-red globemallow
Sporobolus airoides-alkali sacaton
Sporobolus cryptandrus-sand dropseed
Sporobolus flexuosus-sand mesa dropseed
Yucca elata-soaptree yucca

Invertebrates
Formicidae -harvester ants
Lycosidae-wolf spider
Mycetophilidae-gnats
Tenebrionidae-darkling beetles
Termitidae-termites

Herpetofauna
Cnemidophorus inornatus-little striped whiptail
Uta stansburiana-side-blotched lizard

Avians
Amphispiza bilineata-black-throated sparrow
Cathartes aura-turkey vulture
Corvus cryptoleucus-Chihuahuan raven
Mimus polyglottos-northern mockingbird

Mammals
Canis latrans-coyote
Lepus californicus - black-tailed jackrabbit
Oryx gazella - oryx
Sylvilagus audubonii-desert cottontail