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AUG 19 1992

ERD:RHB:9449

EPA and CDH comments on the Draft Phase I RFI/RI OU-13 Work Plan.

Jeff Ciocco, Rocky Flats Branch, EM-453

Attached for your files are EPA and CDH comments on the Draft Phase I RFI/RI OU-13 Work Plan. The Final Phase I OU-13 Work Plan is due to the regulators on October 12, 1992.

Please direct any questions to Robert H. Birk at (303) 966-5921.

Richard J. Schassburger
for Frazer R. Lockhart
Director
Environmental Restoration Division

Attachments

cc w/o Attachments:
E. Lee, EG&G
E. Dillé, EG&G
M. McHugh, EG&G
B. Magee, HAZWRAP

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June 23, 1995

95-RF-05308

Jessie M. Roberson
Assistant Manager for
Environmental Restoration
DOE/RFFO

TRANSMITTAL OF THE DRAFT DATA SUMMARY 2–OPERABLE UNIT 13, 100 AREA – SGS-187-95

Action: None

This letter documents our formal transmittal of the Draft Data Summary 2—Operable Unit 13, 100 Area. According to our Stop Work Order Implementation Plan, this document is scheduled for parallel review with EG&G Rocky Flats, Inc. Two copies of the document are provided for your review. Our internal review will be completed on or before July 3, 1995. As soon as we have gathered the comments we will forward a copy of the comments to you. Please be reminded that according to the Stop Work Order Implementation Plan, this document will not be revised; however the comments on the Draft will be archived in the Environmental Records Center. This completes the last deliverable for Operable Unit 13 as required in the Stop Work Order Implementation Plan.

If you need additional copies of this document or if there are any questions, please do not hesitate to contact M. F. McHugh of my staff, at extension 8624 or on digital pager 5958.

S. G. Stiger, Director
Environmental Restoration Program Division

MFM:dql

Orig. and 1 cc - J. M. Roberson

Attachment:
As Stated (2 copies)

cc:
M. N. Silverman - DOE/RFFO

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DATA SUMMARY NO. 2
OPERABLE UNIT NO. 13
100 AREA

U.S. Department of Energy
Rocky Flats Environmental Technology Site
Golden, Colorado

ENVIRONMENTAL RESTORATION PROGRAM

June 1995

Volume I - Text

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LIST OF ACRONYMS AND ABBREVIATIONS

Am	americium
ATSDR	Agency for Toxic Substances and Disease Registry
ASTM	American Society for Testing and Materials
BNA	base/neutral acid extractable
BSCP	Background Soils Characterization Program
BTEX	benzene, toluene, ethylbenzene, and xylene
cm	centimeter
cm^2	square centimeter
CDH	Colorado Department of Health
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLP	Contract Laboratory Program
COC	constituent of concern
cpm	counts per minute
CRC	Chemical Rubber Company
Cs	cesium
CWAD	Clean Water Act Division
DCE	dichloroethene
DOE	U.S. Department of Energy
dpm	disintegrations per minute
DQO	Data Quality Objective
EG&G	EG&G Rocky Flats Inc.
EPA	U.S. Environmental Protection Agency
ERPD	Environmental Restoration Program Division
FIDLER	Field Instrument for the Detection of Low-Energy Radiation

FS	Feasibility Study
FSAP	Field Sampling and Analysis Plan
ft^2	square foot
g	gram
g/cm^3	grams per cubic centimeter
GIS	Geographic Information System
GPS	Global Positioning System
GRRASP	General Radiochemistry and Routine Analytical Services Protocol
HPGe	high purity germanium
HRR	Historical Release Report
IAG	Interagency Agreement
IFSP	Integrated Field Sampling Plan
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
K	potassium
KeV	kilo electron-volts
kg	kilogram
L	liter
lb	pound
LNAPL	light nonaqueous phase liquid
m	meter
m^3	cubic meter
MDA	minimum detectable activity
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mL	milliliter

mL/g	milliliters per gram
mm	millimeter
NaI	sodium iodide
nCi/g	nanocuries per gram
OU	operable unit
PAH	polynuclear aromatic hydrocarbon
PARCC	precision, accuracy, representativeness, completeness, comparability
PCA	tetrachloroethane
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
pCi/g	picocuries per gram
pCi/L	picocuries per liter
ppb	parts per billion
ppm	parts per million
PPRG	Programmatic Preliminary Remediation Goal
PRG	preliminary remediation goal
PSZ	Perimeter Secured Zone
Pu	plutonium
PVC	polyvinyl chloride
QA	quality assurance
QC	quality control
Ra	radium
RCRA	Resource Conservation and Recovery Act
RDL	required detection limit
RF	Rocky Flats
RFEDS	Rocky Flats Environmental Data System
RFETS	Rocky Flats Environmental Technology Site

RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision
RPD	relative percent difference
SOP	Standard Operating Procedure
SQL	sample quantitation limit
SVOC	semivolatile organic compounds
TAL	target analyte list
TCA	trichloroethane
TCE	trichlorethylene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
Th	thorium
TOC	total organic carbon
UBC	under-building contamination
UTL	upper tolerance limit
$UTL_{99/99}$	upper tolerance limit with 99 percent confidence and 99 percent coverage
VOC	volatile organic compound
VSP	vertical soil profiles
μg	micrograms
μg/g	micrograms per gram
μg/kg	micrograms per kilogram
μg/L	micrograms per liter
%	percent
±	plus or minus
1,1,1-TCA	1,1,1-trichloroethane
1,2-DCE	1,2-dichloroethene

EXECUTIVE SUMMARY

This document presents results from the nonintrusive Stage 1 field activities for Operable Unit No. 13 (OU13) at the U.S. Department of Energy Rocky Flats Environmental Technology Site. Nonintrusive field activities for OU13 included radiological surveys, soil-gas surveys, surface-soil sampling, asphalt sampling, vertical soil profile sample analysis, and visual inspections of each IHSS. These activities were conducted as part of the requirements from the OU13 Work Plan for the Stage 1 Resource Conservation and Recovery Act Facility Investigation/Comprehensive Environmental Response, Compensation, and Liability Act Remedial Investigation (DOE 1992a).

The purpose of this Data Summary is to describe the nonintrusive activities, summarize survey and analytical results, and make recommendations for further investigation or disposition of Individual Hazardous Substance Sites (IHSS). The IHSSs included in the OU13 field investigation, as they are grouped for discussion in this report, are as follows:

- North Chemical Storage Site (IHSS 117.1);
- Hydrogen Peroxide Spill Site (IHSS 191);
- Scrap Metal Site (IHSS 197).

- Middle Chemical Storage Site (IHSS 117.2);
- Building 551 Radioactive Site (IHSS 158) (no additional investigation needed; co-located within IHSS group);
- Waste Peroxide Drum Burial (IHSS 169) (no additional investigation needed; co-located within IHSS group);

- Valve Vault 12 (IHSS 186);

- Oil Burn Pit No. 1 (IHSS 128);
- Lithium Metal Destruction Sites (IHSS 134N & 134S);
- Solvent Burning Site (IHSS 171);
- Waste Spills (IHSS 148);
- North Area Radioactive Site (IHSS 157.1);
- South Chemical Storage Site (IHSS 117.3);
- Fuel Tank 221 Spill Site (IHSS 152); and
- Caustic Leak (IHSS 190) (no additional investigation needed).

IHSSs 169 and 191 required no further investigation but are located in IHSS group areas that were evaluated for soil gas. IHSS 190 is not part of an IHSS group and required no further sampling.

This Data Summary discusses investigation methods and specific activities for each IHSS and IHSS group. A brief description of each IHSS presents pertinent historical data and facility uses. The analytical data for each IHSS were summarized, compared to reference concentrations, and statistically assessed for each IHSS to accomplish the following:

1. Determine the presence or absence of contaminants by comparing measured concentrations to background concentrations and preliminary remediation goals (PRGs).
2. Begin the process of determining nature and extent of contamination.
3. Evaluate sample sufficiency for characterization.
4. Recommend additional sampling including intrusive activities necessary to complete characterization of the nature and extent of all contamination.

Recommendations were developed based on findings from the analytical summary and statistical assessment. These recommendations were compared with the preliminary evaluation and remedial categorization from the *Proposed Plan for Reorganization and Remediation of the Industrial Area Operable Units at the Rocky Flats Environmental Technology Site* (EG&G 1994a). This preliminary evaluation document was designed to consider potential changes to previously planned work scopes that should result from collecting and analyzing new data.

A recommendation for the extent and magnitude of additional sampling depends on the establishment of suitable data quality objectives (DQOs). As detailed in this report, the current sampling program has established constituents of potential concern from both surface-soil and soil-gas samples based on exceedances of background concentrations and PRGs. Intrusive sampling of subsurface soils and the groundwater will be necessary to complete characterization of contaminant nature and extent within OU13.

Data presented in this report indicate that metals, semivolatile organics, and radionuclides exceeded background UTLs or PRGs at some locations. Soil-gas data provide basic information to determine future intrusive sampling locations.

Tetrachloroethene sludge was found in IHSS 134N during the soil-gas investigations. An evaluation of the analytical results of the sludge material from location SG13094 indicates concentrations of tetrachloroethene at 100,000 parts per billion (ppb), trichloroethene at 860 ppb and 1,2-Dichloroethene (total at 1,100 ppb). In addition, semivolatile compounds were detected ranging from 42 to 1,400 ppb. Data from the soil-gas samples obtained in this IHSS and groundwater samples obtained from monitoring well P114889 downgradient of the IHSS group were compared to the sludge sample. Tetracholorethene and trichloroethene were detected in both the soil-gas and the groundwater samples.

Descriptions of the analytes, concentrations, and locations within a specific IHSS are discussed in the body of the report.

Based on the conclusions drawn from this study, the following recommendations are made:

- IHSS group 117.1 and 197 is recommended for installation of three boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

- IHSS group 117.2, 158, and 169 is recommended for installation of four boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

- IHSS group 128, 134, and 171 is recommended for installation of four boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

- IHSS 148 is recommended for installation of two boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

- IHSS group 152 and 117.3 is recommended for installation of two boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

- IHSS 186 is recommended for installation of two boreholes to the water table with the collection of sediment, soil-gas, and groundwater samples.

Data usability was assessed in accordance with EG&G guidance. This assessment is discussed in Section 3.1.6. Only two potentially significant issues were found during the assessment, the first being that accuracy requirements were not met for target analyte list metals and additional metals. There is the possibility of a Rocky Flats Environmental Data System reporting error. Secondly, tritium was detected in rinsate samples.

Adjacent and overlap samples were collected for IHSSs 186, 157.1, 117.3, and 190. Additional analyses for adjacent and overlap IHSSs included in situ HPGe surveys, surface-soil pH analyses, and surface-soil metal analyses at selected sample locations. IHSS 117.3 overlaps IHSS 172 of OU8 (Central Avenue waste spill) and is adjacent to IHSS 160 of OU14 (radioactive spill). Plutonium and uranium were detected above background in surface-soil samples from IHSS 117.3 within the adjacent areas. Preliminary results from surface-soil samples from IHSS 160 of OU14 indicate detections of lead and zinc above background.

1.0 INTRODUCTION

Preparation of this document meets the Stage 1 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI)/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI) Work Plan requirements to present the results of the nonintrusive Stage 1 activities for Operable Unit No. 13 (OU13) at the U.S. Department of Energy (DOE) Rocky Flats Environmental Technology Site (RFETS) located in Golden, Colorado. Figure 1-1 illustrates the site location and local topography. The nonintrusive Stage 1 (screening level) activities include visual inspections, surface radiological surveys (i.e., high purity germanium [HPGe] and sodium iodide [NaI] surveys), soil-gas surveys, sediment sampling, vertical soil profile (VSP) sampling, and tank inspection/sampling.

The Stage 1 activity is the first of a three-stage RFI/RI. These activities are pursuant to an Interagency Agreement (IAG) among DOE, the U.S. Environmental Protection Agency (EPA), and the State of Colorado Department of Public Health and Environment (CDPHE), dated January 22, 1991 (DOE et al. 1991). The IAG program addresses both RCRA and CERCLA requirements. The purpose of this Data Summary is to report analytical data resulting from the Stage 1 activity and make recommendations based on those data.

1.1 BACKGROUND

OU13 consists of 15 Individual Hazardous Substances Sites (IHSSs) located throughout the RFETS Industrial Area (Figure 1-2). A complete documentation of these IHSSs is detailed in the OU13 RFI/RI Work Plan (DOE 1992a).

All IHSSs in the Industrial Area were evaluated according to criteria in the draft Proposed Plan for Reorganization and Remediation of the Industrial Area Operable Units (DOE 1994a) to assist in identifying those IHSSs that are candidates for closure or accelerated cleanup. The intention of the categorization is to allow for the expedited risk-based closure of the Industrial Area IHSSs by issuing a decision matrix equivalent to a Record of Decision (ROD) for each IHSS or group of IHSSs. This would occur before RODs are issued for each Industrial Area OU. This categorization process is designed to manage potential changes of previously planned work scopes based on the collection and interpretation of new data. In this Data Summary data collected during the Stage 1 activity are compared with the remedial categories.

1.2 PURPOSE AND SCOPE

The purposes of this Data Summary are as follows:

- Describe the nonintrusive activities implemented during the Stage 1 investigation and compare these activities to the outline in the OU13 RFI/RI Work Plan (DOE 1992a).
- Present analytical data for those nonintrusive activities in order to further characterize the IHSSs.
- Relate current data to the categorization of IHSSs in the draft Proposed Plan for Reorganization and Remediation of the Industrial Area Operable Units (DOE 1994a).
- Based on existing information, discuss contaminant fate and transport.
- Present a summary of findings and conclusions.
- Identify data gaps and make recommendations for subsequent stages of the RFI/RI.

The Stage 1 activities for OU13 are designed to detect contamination at each IHSS primarily using non- or limited-intrusion screening-level surveys. These surveys will provide an

assessment of the presence of contamination, and they will also be a step toward defining the nature and extent of the contamination that is present. The following are the activities for the Stage 1 investigations at each IHSS:

- visual inspections of the physical setting;
- surface radiological surveys using both HPGe and NaI instruments;
- surface-soil sampling including sampling under asphalt or concrete;
- surface-water and sediment sampling;
- soil-gas survey;
- vertical soil profiles (6 inches); and
- soil borings listed in the OU13 RFI/RI Work Plan (DOE 1992a).

This document presents the results of these inspections, surveys, and sampling events for each individual IHSS. All results of the surface radiological survey are included as appendices or tables. Once the investigations for the Stage 1 activities are completed, a comprehensive RFI/RI document will be prepared to summarize all of the information and fulfill the initial objectives of the RFI/RI as defined in the OU13 RFI/RI Work Plan (DOE 1992a).

2.0 METHODS OF INVESTIGATION

This section describes the investigative methodologies used during the data collection activities for the OU13 RFI/RI Work Plan (DOE 1992a).

2.1 HIGH PURITY GERMANIUM SURVEY

In situ HPGe surveys were conducted at all 15 of the OU13 IHSSs. A total of 72 sites were surveyed for HPGe. The HPGe surveys were conducted in accordance with Environmental Restoration Program Division (ERPD) Standard Operating Procedure (SOP) GT.30 (EG&G Rocky Flats, Inc. [EG&G] 1994b). These in situ surveys were conducted to identify broad areas that are potentially contaminated with radionuclides. Included in the data are measurements for background.

An HPGe detector is a semiconductor radiation detector that measures low energy X-ray- and gamma-ray-emitting radionuclides in soil in situ. The HPGe detector has a broad energy range, exhibits high resolution, excellent gain stability, moderate area averaging, and the ability to identify and quantify gamma-emitting radionuclides (EG&G 1993a). The HPGe detector allows detection and calculation of radionuclide concentrations in soil at the picocuries per gram (pCi/g) level for gamma-emitting radionuclides including, but not limited to, potassium-40 (K-40); radium-226 (Ra-226); thorium-232 (Th-232); cesium-137 (Cs-137); americium-241 (Am-241); and uranium-233 (U-233), -234, and -235. The HPGe detects and calculates plutonium-239/240 (Pu-239) at the nanocuries per gram (nCi/g) level. The nominal detection radius for the instrument is 147.5 feet. The draft HPGe data, which include the percent error and Field of View information for each OU at RFETS, are included in Appendix A.

In general, the HPGe detector is extremely accurate in identifying the presence of specific radionuclides by resolution of the measured gamma spectrum. In addition, some HPGe results indicate that inadequate shielding during HPGe surveys may lead to elevated activity readings resulting from "shine" from local buildings that process or store radionuclides. Building shine may be defined as the influence of buildings that contain radioactive materials and are located within the radius of detection of the HPGe instrument. For example, Building 444, which processed significant quantities of U-238, would show elevated U-238 HPGe data in the vicinity of the building. Similarly, Building 664 stores mixed waste, which can contain U-238, Pu-239, Am-241, and other radionuclides. HPGe surveys near this building may show elevated activities of these radionuclides due to shine from this building.

2.2 SODIUM IODIDE SURVEYS

The NaI scintillation detector, also referred to as Field Instrument for Detection of Low Energy Radiation (FIDLER), is used for detecting gamma photons (EG&G 1993a). The detector consists of a single crystal of NaI to which a small amount of thallium has been added. The detector has a narrow field of view of approximately 1 foot in diameter when held 2 inches above the ground. This instrument is designed to measure the low-energy gamma rays and X-rays that are characteristic of americium and plutonium. The procedure for use of the FIDLER at RFETS is outlined in SOP FO.16 (EG&G 1992b).

NaI surveys were conducted at each sampling location in OU13 for health and safety purposes and to evaluate and compare NaI readings to HPGe results in each IHSS. Locations and discussions of the NaI surveys performed to further evaluate HPGe readings can be found in the OU13 *Technical Memorandum 1 Addendum to Field Sampling Plan* (DOE 1994a).

2.3 VISUAL INSPECTIONS

A site reconnaissance, or visual inspection, was conducted at each of the 15 IHSSs in OU13 to accomplish the following: characterize and document the physical conditions of each area, identify hazards that may exist, identify special needs or requirements for collecting samples at each area, and plan the OU sampling strategies.

Also identified during site reconnaissance were affected media such as stressed vegetation, (identified as plants that appeared to be wilting, had a loss of color compared to others of the same species nearby, were surrounded by bare patches of soil, showed a lack of vigor or lack of growth, etc.) soil staining, cracked concrete, and pavement/concrete staining. In IHSSs where a specific sampling grid was not specified by the OU13 RFI/RI Work Plan (DOE 1992a), surface-soil samples were located based on these visual inspections. Further information on identification and locations for the surface soil samples can be found in Technical Memorandum 1 (DOE 1994a). Sites selected for sampling were approved by DOE, EPA, and CDPHE as defined in Technical Memorandum 1.

2.4 SURFACE-SOIL SAMPLING

Surface-soil samples were collected from locations specified in Technical Memorandum 1 (DOE 1994a). A total of 107 surface-soil locations were sampled in OU13. No surface-soil sampling was performed for IHSSs 152, 169, 190, and 191. Table 2-1 summarizes the analytes for IHSS surface-soil sampling.

Two methods of collecting surface-soil samples were employed during Phase I sampling at OU13. In unpaved areas, the Rocky Flats (RF) Method was used to collect the sample, and in areas where pavement or concrete covered the ground surface, grab samples were

collected after cutting a hole through the asphalt or pavement with an electric coring device. Both grab sampling and RF Method sampling were conducted in accordance with ERPD SOP GT.08 (EG&G 1993b). The RF Method was modified in GT.08 to require a five-point rather than 10-point composite for soil sampling at IHSSs because there was no need for the extra volume of soil produced by a 10-point composite.

2.5 VERTICAL DEPTH SOIL PROFILE SAMPLING

The purpose of VSP sampling is to supplement and verify the field HPGe data by defining the vertical distribution of radionuclides that contribute to the gamma spectra in the top 6 inches of soil. VSP samples were collected at 18 locations in OU13 in accordance with ERPD SOP GT.08 (EG&G 1993b).

VSP sampling is accomplished by collecting discrete soil samples at 2-inch intervals corresponding to depths from 0 to 2 inches, 2 to 4 inches, and 4 to 6 inches (DOE 1992a). The samples are typically collected in exposed soil or gravel sites.

2.6 SOIL-GAS SURVEYS

Soil-gas samples were collected from locations specified in Section 7.0, Field Sampling Plan, of the OU13 RFI/RI Work Plan (DOE 1992a). A total of 579 locations were sampled in accordance with ERPD SOP GT.09 (EG&G 1992) and were analyzed using EPA Method 524.2.

Nineteen analytes and their corresponding target method detection limits (MDLs) specified in the OU13 RFI/RI Work Plan (DOE 1992a) are provided in Table 2-2. Analytes and

target MDLs in Table 2-2 are used for screening purposes in the summary discussion of this Data Summary.

Before soil-gas surveys were conducted, all sampling locations were cleared for underground utilities. Small-diameter stainless-steel probes were driven into the soil either hydraulically or with an electric rotary hammer to a depth of 5 feet below the ground surface, except in IHSS 128 where samples were collected at a depth of 15 feet. A vacuum was then applied to the probe to induce soil-vapor flow. The soil-gas samples were collected in adsorbent cartridges that were transported to a mobile laboratory and analyzed for volatile organic compounds (VOCs) (Table 2-2) according to EPA modified Method 524.2.

2.7 ASPHALT SAMPLING

Six locations were sampled for asphalt in OU13. These asphalt samples were collected at locations that exhibited radionuclide concentrations above background levels (based on the in situ HPGe survey data evaluation). Specifically, samples were collected from IHSSs 117.2 and 134 South. Samples were collected following the methodology specified in ERPD SOP GT.08 (EG&G 1993b). Samples were collected using a core drill and 4- to 6-inch-diameter bits. The asphalt/concrete was cored completely through to the underlying soil. The core was then removed, wrapped in aluminum foil, and shipped to RUST Geotech, Grand Junction, Colorado, for analysis. A listing of the radionuclides analyzed is presented in Table 2-3.

2.8 ADJACENT AND OVERLAP ANALYSES

Samples were analyzed for additional parameters in areas considered to be adjacent to or to overlap other IHSS areas according to the Integrated Field Sampling Plan (IFSP) (EG&G

1994c). Additional parameters were analyzed in samples collected from IHSSs 157.1 and 117.3 because of the proximity of adjacent IHSS boundaries.

2.9 LOCATION OF SURFACE-SOIL AND SOIL-GAS SAMPLING SITES

Maps from the OU13 RFI/RI Work Plan (DOE 1992a) and Technical Memorandum 1 (DOE 1994a) were used to locate surface-soil and soil-gas sample collection points. Fixed locations such as building corners and fences were used to locate the sample points. Measurements were made off the maps, and locations were determined with a tape and compass. Each location was flagged in the field.

Global Positioning System (GPS) information will be used to verify field locations. All sample location information will be uploaded into a database for inclusion in the Geographic Information System (GIS) software. At the production time of this Data Summary approximately 78 percent of the surface-soil locations and 50 percent of the soil-gas locations have been uploaded with the GPS system for OU13. None of this information was used in this Data Summary.

2.10 GEOGRAPHIC INFORMATION SYSTEM

All maps and spatially referenced data have been created in a GIS format using the ARC/INFO™ software. RFETS map coverages, including OU and IHSS outlines, were obtained from EG&G. Analytical data were imported into the software to spatially represent analyte concentrations.

3.0 DATA EVALUATION

This section presents the results of data collection for the initial phase of the Stage 1 activities for the OU13 Phase I RFI/RI. Data for individual IHSSs or IHSS groups are presented in Section 3.2. Historical and background information on the IHSSs and IHSS groups is detailed in the OU13 RFI/RI Work Plan (DOE 1992a) and the Historical Release Report (DOE 1992b).

3.1 DATA EVALUATION METHODS

Analytical results from the various sampling activities were obtained from the Rocky Flats Environmental Data System (RFEDS). Data for OU13 were generated on an IHSS-specific basis; however, analytical results for the various sampling activities are discussed by IHSS group as outlined in the OU13 Technical Memorandum 1 (DOE 1994a).

Sediment and surface-water samples were not proposed as part of the original OU13 RFI/RI Work Plan (DOE 1992a). At the request of CDPHE, surface-water and sediment sample locations identified for OU13 activities were incorporated into the proposed locations listed in the OU13 Technical Memorandum 1 (DOE 1994a). The surface-water and sediment sampling activity for the entire Industrial Area is part of the OU12 scope of work. Results of sediment sampling will be discussed further in a pending OU12 data summary.

3.1.1 High Purity Germanium Survey

In situ HPGe surveys were conducted at 70 locations in 15 OU13 IHSSs in accordance with draft SOP GT.30 (EG&G 1994a). The in situ HPGe survey for OU13 measured radioactivity at the pCi/g level in surface soil for K-40, Cs-137, Ra-226, Th-232, U-235, U-238, and Am-241. Plutonium-239 activities were measured at the nCi/g level.

Expected background activities were elevated based on background HPGe data, Rock Creek data collected during the OU1 Phase III Investigation in 1991 and the OU2 Phase II Investigation in 1993, and a literature search of background activities. These background values are shown in Table 3-1.

The in situ HPGe data for OU13 were compiled on an IHSS-specific basis; however, the results of this survey are discussed by IHSS group. As specified in the OU13 Technical Memorandum 1 (DOE 1994b), the OU13 IHSSs have been divided into the following groups:

- IHSS 117.1 and 197;
- IHSS 117.2, 158, and 169;
- IHSS 186;
- IHSS 128, 171, and 134(N and S);
- IHSS 148;
- IHSS 191 and 157.1;
- IHSS 152 and 117.3; and
- IHSS 190.

The purpose of the in situ HPGe survey was to identify hot spots missed by previous soil sampling, and to screen large areas potentially contaminated with a variety of radionuclides. The information was used to assist in identifying surface-soil sampling locations.

The HPGe in situ data collection assumptions are as follows:

- soil density = 1.5 grams per cubic centimeter (g/cm^3);
- soil moisture = 10 percent;
- vertical distribution = homogeneous;

- averaging depth = 3.0 cm; and
- air density = 0.001293 g/cm^3.

In general, the HPGe detector has high resolution and is considered extremely accurate in identifying specific radionuclides. However, in situ HPGe data may overestimate radionuclide activity in the soils due to the interference of shine from nearby buildings containing radionuclides.

Results are affected by other site characteristics such as irregular or sloping topography, soil moisture, soil density, and distribution of the sources throughout the soil. Hence, these factors, as well as many others, limit the accuracy of the in situ HPGe data. Thus, all such data should be treated as qualitative rather than quantitative, and be interpreted using the discretion appropriate for any screening data.

A brief description of the various radionuclides measured by in situ HPGe follows. Specific discussions on each IHSS group are then presented.

Potassium-40. K-40 is a naturally occurring radionuclide that was not used in significant quantities at RFETS. However, K-40 above background activities may be present in RFETS soils because of the use of Polar Melt® deicer, which is composed of potassium chloride (EG&G 1992c). Based on background activities identified in the literature search (Table 3-1), the range of reasonable background activities for K-40 is from 1.89 to 21.8 pCi/g.

Radium-226. Ra-226 is a naturally occurring radionuclide. Background values shown in Table 3-1 for this radionuclide are as high as 1.13 pCi/g. The Rock Creek $UTL_{99/99}$ for Ra-226 is 1.59 pCi/g. In situ HPGe data for Ra-226 were obtained primarily for in situ HPGe detector sourcing purposes and for comparison of the total activities of Ra-226 and U-238 in the surface soils.

Nothing in the history of the IHSSs at OU13 leads to the conclusion that Ra-226 might be present in excess of natural background concentrations at any of the OU13 IHSSs.

Thorium-232. Th-232 is the most abundant of the naturally occurring thorium isotopes. Thorium is not known to have been used in significant quantities for production purposes at RFETS. Background activities of Th-232 could be expected to range up to 1.35 pCi/g. In situ HPGe data for Th-232 were obtained primarily to source the in situ HPGe detector. Nothing in the history of the IHSSs at OU13 leads to the conclusion that Th-232 might be present in excess of natural background conditions due to radionuclide or hazardous waste contamination (DOE 1994a).

Uranium-238. U-238 is a radionuclide that was used at RFETS, especially in the 400-area buildings. Table 3-1 indicates that background activities of U-238 could be expected to be as high as 1.91 pCi/g based on wet-chemistry analysis from the Rock Creek area, while background values measured with in situ HPGe were as high as 2.3 pCi/g.

Uranium-238 activities above 2.3 pCi/g were further analyzed, and the ratio of Ra-226 activity to the U-238 activity was determined. In naturally occurring materials, these two radionuclides should be in secular equilibrium. At equilibrium, the total activity of Ra-226 and U-238 should be approximately equal (Cember 1978; Faure 1977) and the ratio of the activities should be near unity. The in situ HPGe data for background soils indicate that this ratio is less than unity, varying from 0.35 to 0.51. The limits of analytical capability of the HPGe method may account for the variation and a ratio of less than unity. For this evaluation, activity ratios of Ra-226 to U-238 that exceed 0.35 are considered to be indicative of naturally occurring U-238 activities. In summary, only U-238 activities that exceed 2.3 pCi/g and are present with Ra-226 in a ratio of less than 0.35 (radium to uranium) were identified as anthropogenic. Of the 21 such occurrences within OU13, shine from storage areas is believed to account for many of these

readings. Further discussion of these occurrences can be found within each respective IHSS group.

Uranium-235. U-235 is a radionuclide with a very low abundance in naturally occurring uranium. Background activities of U-235 could be expected to be as high as 0.2 pCi/g based on wet-chemistry analyses conducted in the Rock Creek area and 0.10 pCi/g for in situ HPGe data. Building 883 was the site of U-235 usage at RFETS.

Cesium-137. Cs-137 is a man-made radionuclide that is found in surface soils due to fallout from atmospheric testing of nuclear weapons. Soils that have remained undisturbed in recent years could have Cs-137 activities up to 1.37 pCi/g. Disturbed soils would have lower activities of Cs-137 because of the mixing of surface soils with less contaminated deeper soils. No data are available that suggest fission by-product materials were ever used in OU13. Therefore, all Cs-137 present is considered to have come from atmospheric fallout.

Americium-241. Am-241 is an anthropogenic radionuclide and is a daughter product of the radioactive decay of Pu-241. Americium has been detected historically at RFETS at above-background concentrations. For the purposes of this evaluation, only HPGe americium measurements above 0.1 pCi/g were considered to be above background. In addition, many of these locations were considered to be elevated because of shine from buildings that handled either plutonium- or plutonium- and americium-contaminated waste. Elevated americium readings within OU13 can be expected to result from shine from buildings such as Building 664 that store transuranic wastes. In situ HPGe survey locations and the specific activity data for Am-241 are presented on Plate 1. Results of the in situ HPGe survey indicated specific activities for Am-241 above those that would be expected from the history of uses and releases of Pu-239 and Am-241 within OU13. Elevated Am-241 activities can be caused by interference from a daughter (Th-234) of naturally occurring U-238. It is suspected that the software

program Nuclear Materials Analysis Program does not differentiate between the two isotopes Am-241 and Th-234. The energy level of Am-240 is about 3 KeV less than that of Th-234 and, as a result, some detections of americium may be Th-234 interference. Evaluation of the Am-241 and U-238 data should indicate how much of the interference from Th-234 is responsible for elevated Am-241 concentrations. Additionally, Am-241 measurements could be the result of interference from thorium. Plate 1 illustrates the location of elevated americium activity compared to OU13 IHSSs.

Plutonium-239. Pu-239 is a man-made radionuclide that has been used in numerous machining, casting, and chemical operations at RFETS. Plutonium has been detected historically at RFETS and is present at concentrations above background. The minimum detectable activity (MDA) of Pu-239 with the in situ HPGe detector used at RFETS are three orders of magnitude higher than with the laboratory wet chemistry method (nCi/g). Pu-239 values above the MDA of the in situ HPGe detector (0 nCi/g) are usually considered to be potentially above background. However, the Pu-239 HPGe results above 0 nCi/g for OU13 may be attributed to the influence of shine from the low-level waste storage areas that contain Pu-239-contaminated waste. One example is Building 664, which stores transuranic wastes.

Based on slightly elevated in situ HPGe results for Pu-239, three additional surface-soil samples and two additional vertical soil-profile samples were added to IHSS Group 117 and 197.

The in situ HPGe survey conducted for OU13 revealed concentrations of Am-241 that were higher than those concentrations historically found in this area and also higher than the concentration that might be expected based on review of the area history. Therefore, the veracity of the in situ HPGe survey was in question.

To determine the adequacy of the HPGe data, a comparison was made between that data and data collected by VSPs.

A total of 25 HPGe survey locations out of 43 total sites in OU13 detected Am-241. Of these 25 survey locations, 11 locations had VSP samples either co-located or within about 50 feet, notwithstanding HPGe station I-13. Only one location of the 11 also identified Am-241 in the VSP sample. This survey location is station I-13 in IHSS 186, which is roughly 100 feet northwest of VSP sample location VP30894. The in situ HPGe survey has a radius of influence of 50 feet, so correlation of HPGe station I-13 with VSP location VP30894 is tenuous. However, no other sample location is closer to HPGe station I-13. The in situ HPGe for this site reported Am-241 at 0.15 pCi/g; the VSP indicated Am-241 at levels of 2.88, less than 0.050 (MDA), and 0.14 pCi/g for soil depths of 0 to 2 inches, 2 to 4 inches, and 4 to 6 inches, respectively.

Therefore, little or no correlation seems to exist between Am-241 hits reported by the mobile HPGe survey and the VSP and surface soils analyzed by the laboratory (Table 3-2). While the veracity of the laboratory analysis of the VSP samples is also questionable, the difference between the mobile and laboratory HPGe analysis is more than an order of magnitude. Hence, the in situ HPGe results probably fail to accurately represent Am-241 activity at OU13.

3.1.2 Sodium Iodide Surveys

NaI surveys were performed at every soil-gas location in OU13 as part of the health and safety clearance. In addition, selected areas for NaI surveys were also identified based on in situ HPGe results. These surveys were evaluated and illustrated in the OU13 Technical Memorandum 1 (DOE 1994a).

For example, at the request of CDPHE, an area in IHSS 197 was selected for an NaI survey based on elevated HPGe readings. A grid 140 feet by 24 feet was used to further define the area of radioactivity (DOE 1994a).

The NaI surveys were conducted in accordance with SOP FO.16 (EG&G 1992a). Field notes and data logs for NaI detector results and additional information on the NaI surveys are detailed in the OU13 Technical Memorandum 1 (DOE 1994a).

3.1.3 Vertical Depth Soil Profiles

To supplement and verify the in situ HPGe results, at least two VSP samples were taken per IHSS or IHSS group. The VSPs are taken from the top 6 inches of soil, at depths of 0 to 2, 2 to 4, and 4 to 6 inches. These samples were collected only in exposed soil sites to determine the vertical distribution of gamma-emitting radionuclides contributing to the in situ HPGe survey readings. VSP samples were not collected under concrete or asphalt due to the shielding of these dense surface materials. The VSP samples were analyzed by laboratory HPGe. Analytical data, MDAs, and error terms from these analyses are included in Appendix A-2. To identify VSP values potentially above background, the error term was subtracted from the sample value and compared to background activities for surface soils identified in the OU6 Technical Memorandum No. 4, Chemicals of Concern, Human Health Risk Assessment, Walnut Creek Priority Drainage (EG&G 1994d).

3.1.4 Surface-Soil Sampling

Analytes for surface-soil sampling are summarized in Table 2-1. The analytical results of surface-soil sampling were used to characterize contamination at each IHSS by identifying detected analytes including those reported as estimated concentrations below the MDL,

examining the detection frequency, delineating locations and areas of detection, and identifying areas that require additional characterization. Areas of potential concern were identified by comparing reported concentrations with chemical-specific background levels and preliminary remediation goals (PRGs). Results of sampling in the Rock Creek area during the 1991 OU1 Phase III investigation and the 1993 OU2 Phase II investigation comprise the background database (EG&G 1994d). For each analyte, an upper tolerance limit (UTL) with 99 percent confidence and 99 percent coverage ($UTL_{99/99}$) was calculated assuming the background data were normally distributed (DOE 1994a). Surface-soil concentrations were compared to the reported $UTL_{99/99}$.

New background data for fallout radionuclide activities have been developed but were not available for this Data Summary. Table 3-3 contains these fallout radionuclides as they are presented in the *Background and Soils Characterization Program Report - Rocky Flats Environmental Technology Site* (EG&G 1995a).

PRGs were obtained from the *Programmatic Risk-Based Preliminary Remediation Goals for the Rocky Flats Plant* (DOE 1994b). Programmatic PRGs have been calculated for various scenarios at RFETS to obtain contaminant- and medium-specific levels of exposure that will protect human health. Ecological effects were not considered in the development of PRGs. For screening purposes, the residential PRGs were used because they are the most conservative concentrations among the various surface-soil exposure scenarios. Decisions on future land use will provide the basis for the PRGs that will be used to determine remediation levels.

If both a PRG and a background concentration were available for an analyte (e.g., for most of the inorganic analytes) the process was to make a comparison to background first, and then compare to the PRG. If a particular analyte exceeded background it was carried forward through the PRG comparison. If the analyte was present at less than background, it was dropped

from further consideration. This helped prevent characterization of existing background levels as site contamination and removed the consideration of potential risks associated with naturally occurring levels. Arsenic and beryllium PRGs are less than the background $UTL_{99/99}$ concentrations and were not identified for further evaluation unless background concentrations were exceeded. Background was assumed to be zero for organic analytes. PRGs are not available for lead, cobalt, cesium, lithium, aluminum, iron, magnesium, potassium, sodium, Cs-134, and gross alpha and beta.

An average concentration for the detected analytes was calculated from data for each IHSS using positive reported values including estimated, or "J" (for organics) and "B" (for metals) qualified concentrations, and using one-half the sample quantitation limit (SQL) for samples reported as non-detects. In determining the frequency of detection of a particular analyte, one duplicate sample result was selected over the other according to the following criteria:

- the higher of two positive values was used; or
- a positive value was used over a reported SQL; or
- the lower of two SQLs was used.

Tables presenting sampling results and summaries for each IHSS are presented in the Tables section of Volume I and in Appendix C.

Figures and plates that show surface-soil sampling locations and concentrations of analytes detected at the various IHSSs, respectively, have also been developed. These graphical representations of the data are cited throughout the report. Eleven plates have been prepared for this draft report. Each plate contains plotted concentrations of detected analytes. Inorganics shown are those concentrations that exceeded $UTL_{99/99}$ background levels. Organic analytes were grouped for ease in presentation. Organic analytes that exceed PRGs are identified separately.

Results of pH and total organic carbon (TOC) analyses were available and have been included with the IHSS data sets in Appendix C.

At the request of CDPHE, VOCs were added to the parameter list for surface-soil samples collected in IHSS Group 117.1 and 197. One surface-soil grab sample from IHSS 134 North was also identified for VOC and target analyte list (TAL) metal analysis.

3.1.5 Asphalt Sampling

Asphalt samples were collected from paved areas where elevated activities were previously identified by the HPGe and NaI surveys. This series of samples was collected to determine whether the levels of radioactivity detected were a result of surface contamination or a result of "breakthrough" from a radiological source below the asphalt. Seven asphalt samples were obtained from OU13, with the results listed in Appendix B. Results were compared to PRGs and surface-soil background concentrations (EG&G 1994d).

3.1.6 Data Quality Assessment

To evaluate achievement of data quality objectives (DQOs), the *Rocky Flats Procedure for Evaluation of ERM Data for Usability in Final Reports* (EG&G 1994e) was used. Although this guidance had not been completed at the time of the OU13 Work Plan preparation, this Data Summary document followed the guidance in evaluating surface-soils data. Measurements of data quality identified in this procedure include precision, accuracy, representativeness, comparability, and completeness (also referred to as PARCC parameters). Precision, accuracy and completeness are quantitative measures of data quality; representativeness and comparability are qualitative statements that express the degree to which sample data represent actual conditions and describe the confidence with which one data set may be compared to another. Comparison of real samples with quality control samples is an additional aspect of this

evaluation. After completing data evaluation, overall conclusions regarding the achievement of DQOs can be made and are provided at the end of this section. Before presenting the results of this evaluation, basic information about the DQOs for OU13 and a summary of validated data for OU13 are provided below. Summary tables are included as Appendix D.

Overview of DQOs for OU13. The OU13 RFI/RI Work Plan (DOE 1992a) identified DQOs for OU13 RFI/RI activities. The purpose of these objectives was to accomplish the following:

- Define the data needs for each of the RFI/RI tasks.
- Coordinate activities to support those needs.
- Ensure the quality and quantity of the resultant data.

These objectives were determined based on a three-stage process. The first stage involved identifying the types of decisions the data needed to support. Considerations included identification of the ultimate data users, evaluation of existing data, development of a site conceptual model, and identification of data objectives and decisions. The second stage involved identifying data uses and needs. Considerations included identifying data uses, data types, data quality needs, and data quantity needs; evaluating sampling/analysis options; and reviewing PARCC parameter information. The third stage involved designing a data collection program. More details on this process can be found in the OU13 RFI/RI Work Plan (DOE 1992a). As a result of this process, six major data objectives for OU13 were identified and are contained in Table 5-1 of the OU13 RFI/RI Work Plan.

Of the data objectives identified for OU13, two are of primary importance for evaluating the results of Stage 1 data collection activities:

- Establish the presence or absence of contaminants at each sampling site or IHSS.

- Identify the nature of contamination including affected media and the concentration, type, physical state, and quantity of contaminants.

Summary of Validated Data. All surface-soil samples were collected as specified in the OU13 RFI/RI Work Plan (DOE 1992a). A total of 118 surface-soil samples were collected within OU13 for analyses, 11 of which were field duplicates. Samples were sent to the RFETS subcontractor laboratory under the direction and management of RFETS personnel. Analyses were conducted as specified in the following documents: *General Radiochemistry and Routine Analytical Services Protocol (GRAASP)* (EG&G 1991); *EPA Contract Laboratory Program, Statement of Work for Inorganic Analysis, Multi-Media, Multi-Concentration* (EPA 1988); *EPA Contract Laboratory Program, Statement of Work for Organic Analysis, Multi-Media, Multi-Concentration* (EPA 1991); and *EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition* (EPA 1990). Analyses were completed for the following analytes:

- EPA Contract Laboratory Program (CLP) metals TAL (7/88);

- additional metals by CLP methods (cesium, lithium, molybdenum, strontium, and tin);

- total radiochemistry (Am-241, gross alpha, gross beta, Pu-239/240, tritium, U-233/234, U-235, and U-238);

- EPA CLP semivolatile organics;

- SW-846 volatile organics;

- pH; and
- percent solids.

After the analyses were completed, all data were sent by RFETS to an independent, third party subcontractor for data validation in accordance with the Rocky Flats Sitewide Quality Assurance Project Plan (EG&G 1994f). Procedures used to validate the data are specified in the national functional guidelines for data validation (EPA 1994 a,b). After the evaluation, validation codes were assigned to the data. The "V" validation code indicates that the data meet all validation criteria; an "A" code means that the data meet the primary validation criteria, but not all criteria; and the "R" indicates rejected data that do not meet the primary validation criteria (EPA 1994 a,b). All data rejected during the data validation process are presented in Table D-1.

The validation process was completed for all OU13 surface-soils data with the exception of those data for IHSS 157.1. Although data for this IHSS were not validated when this draft was written, these data were considered to be usable until and unless rejected during the upcoming data validation. No systematic analytical problems were observed for these data. The results of samples collected at IHSS 157.1 were reviewed and base/neutral acid (BNA) surrogate recoveries were found to be below 10 percent for the following five samples:

Location	Sample ID	Sample Collection Date	Parameter
SS301193	SSG1704JE	7-Jun 94	BNA CLP
SS301193	SSG1799JE	5-Aug 94	BNA CLP
SS301093	SSG1703JE	2-Jun 94	BNA CLP
SS301293	SSG1705JE	2-Jun 94	BNA CLP
SS301393	SSG1706JE	2-Jun 94	BNA CLP

It appears that the results of these analyses will be rejected; however, the DQO assessment was not adjusted on the basis of this finding.

PARCC Evaluation Process. The following sections, numbered 1 through 5, contain the results of the data evaluation using the five PARCC parameters:

1. Precision - Precision is a quantitative measure of data quality that refers to the reproducibility or degree of agreement among replicate or duplicate measurements of a parameter. The closer the numerical values of the measurement, the lower the relative percent difference (RPD) and the greater the precision (EG&G 1994e).

To evaluate precision as defined by the Evaluation of ERM data for Usability in Final Reports (EG&G 1994e), data for field-duplicate samples and their corresponding samples were assembled in Table D-2. This table only included data where at least one member of the pair had a detected concentration and both members were validated, non-rejected data. A total of 11 field duplicate surface-soil samples were collected and analyzed for the same parameters as the real samples. The OU13 RFI/RI Work Plan (DOE 1992a) specified that duplicate samples were to be collected at a frequency of one pair per 20 samples, or 5 percent. The actual duplicate collection frequency was 9 percent; thus, actual duplicate collection exceeded the minimum requirements established in the OU13 RFI/RI Work Plan.

To assess precision, the RPDs for each sample pair were calculated using the following equation:

$$RPD = \{[C_1 - C_2]/[(C_1 + C_2)/2]\} \times 100$$

where:

C_1 = Concentration of the analyte in the real sample

C_2 = Concentration of the analyte in the duplicate sample

For those samples where one of the pair was not detected, the RPD was considered not to be calculable (NC) and was not included in the accuracy evaluation. In accordance with the data evaluation guidance (EG&G 1994e), those samples with RPDs greater than 40 percent were not considered to be within accuracy goals. However, because the purpose of the Stage 1 sampling activities is to serve as a screening mechanism to focus future stages of investigation, these data are still considered usable for screening purposes. During decision making at individual IHSSs these data are considered to be estimated. In a few instances, some of the data are not considered to be usable, even with an "estimated" qualification attached to them. These data are those where there is an order of magnitude or greater difference between members of the sample pair in addition to having an RPD greater than 40 percent. These data are not considered to be of sufficient quality to be used for their intended purpose. These are as follows:

IHSS/Location	Real Samples	Duplicate	Analyte
117.2/SS305993	SSG1752JE	SSG1842JE	tritium
117.3/SS307993	SSG1773JE	SSG1832JE	tritium
157.1/SS300493	SSG1697JE	SSG1804JE	tritium
158/SS304593	SSG1738JE	SSG1820JE	copper
171/SS302493	SSG1717JE	SSG1808JE	tritium

To summarize the overall precision of the sample population, Table D-3 was created. The overall precision compliance goal for surface soils was 85 percent as specified in the evaluation guidance (EG&G 1994e). Table D-3 indicates that precision goals were not met by the following: cesium (metal), Am-241, gross beta, Pu-239/240, tritium, and U-235. However, cesium (metal) and tritium were primarily based on "J" qualified (estimated) data; thus, the reported results were close to the instrument detection level and would have a lower level of precision. The gross beta and U-235 data were at 82 percent and 83 percent overall precision, which is reasonably close to the 85 percent comparison value and they do not require any overall

qualification. Because only two semivolatile sample pairs were available it was not possible to thoroughly assess precision for this analyte group. Based on these two samples, 2-methylnaphthalene, acenaphthene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, carbazole, di-n-butyl phthalate, dibenzofuran, fluorene, naphthalene, and pyrene did not meet 85 percent precision goals. However, the evaluation for the semivolatiles is not significant because of the limited data set.

Overall, the data precision for the sample population is considered to be adequate for assessing the presence of the contaminants in OU13 at the screening level. No additional sampling is recommended based on the overall compliance with precision goals and only relatively minor deviations from these precision goals.

2. Accuracy - Accuracy is a measure of overestimation or underestimation of reported concentrations and is evaluated from the results of spiked samples. The procedure for determining accuracy will vary according to differences in the number of measurements and the precision of the estimates (EPA 1992).

As required in this report, accuracy is evaluated by comparing the required analytical method and required detection limit (RDL) with the actual method and its limit for each medium and analyte (EG&G 1994c).

The OU13 RFI/RI Work Plan (DOE 1992a) specified Analytical Levels IV and V for surface-soil samples following those methods identified in the GRRASP Parts A and B (EG&G 1991). Level IV is required for conventional analytes and requires use of EPA CLP methods with stringent quality assurance (QA) and quality control (QC). Level V is required for radionuclides and involves high-quality nonstandard analytical methods, particularly those identified in the GRRASP. Table 5-3 of the OU13 RFI/RI Work Plan (DOE 1992a) and Appendix B of the IFSP (EG&G 1994c) contained required detection limits (RDLs) for analytes to be evaluated. In

addition, Table 10-2 of the OU13 RFI/RI Work Plan (DOE 1992a) contained required analytical methods, RDLs, and DQOs for analyte groups. In summary, the OU13 RFI/RI Work Plan (DOE 1992a) required the EPA CLP methods for target compound list (TCL) volatiles and semivolatiles, TAL metals, and a few additional metals. The GRRASP procedures were required for radionuclide analysis. The appropriate analytical methods were used for all required analytes.

Table D-4 contains a summary of elevated detection limits that were identified as a result of comparing the RDL to the actual detection limits used for OU13 surface-soil sample analyses. As shown in the IHSS-specific tables, a significant number of analyses had detection limits above the required limits.

For the most part, TAL metals and additional metals had elevated detection limits at each IHSS. The detection limits reported by RFEDS corresponded to those numerical limits for water samples rather than soil samples. Further, concentrations below these detection limits are consistently reported. The possibility of erroneous detection limits in RFEDS data is being investigated. If a reporting error is determined *not* to have occurred, the metals data for all of the OU13 IHSSs requiring metals analyses will not be considered accurate enough to meet DQOs for OU13 and the IFSP (EG&G 1994c).

For those IHSSs requiring analyses for organics, elevated detection limits were identified for the following: 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, bromomethane, and vinyl acetate. With the exception of acetone, none of these compounds is known to have been used in production-related activities at RFETS or is expected to be a contaminant in the OU13 IHSSs. Acetone is known to have been used in significant quantities in production-related activities at RFETS, but it is highly volatile and therefore is not expected to be persistent in surface soils. Overall, the organic analyses are considered to be sufficient to meet the accuracy requirements for OU13 DQOs for purposes of screening areas of soil contamination. Use of the few analytes

with the elevated detection limits in risk assessments or for other statistical purposes may require some data qualification because of the elevated detection limits.

For those IHSSs requiring analyses for radionuclides, elevated detection limits were identified for Cs-137, Ra-226, and Ra-228 at IHSS 117.2; Pu-239/240 at IHSSs 117.2, 117.3, 134(S), 148, and 186; gross alpha at IHSSs 117.2, 157.1, 158, and 171; and tritium at IHSS 197. For all of these radionuclides, the elevated detection limits were still below the background comparison values with the exception of tritium at two sample locations. At IHSS 117.1, sample location SS10093, the detection limit for tritium was 1,000 picocuries per liter (pCi/L), and at IHSS 197, sample location SS309793, the detection limit for tritium was 600 pCi/L compared to the background comparison value of 500 pCi/L. At least one other tritium sample with detection limits below background was available in both of these IHSSs; thus, no additional sampling for tritium is required to meet DQOs. Although the detection limits for many radionuclides were above RDLs, the detection limits were still low enough to enable assessment of the nature and extent of contamination in surface soils in OU13.

3. Representativeness - Representativeness is a qualitative characteristic of data quality defined by the degree to which the sample data absolutely and exactly represent the characteristics of a target population. Reproducibility is accomplished by obtaining an adequate number of samples from appropriate locations within the medium of interest (EG&G 1994e). Representativeness is evaluated by comparing the actual sample types and quantities collected with those stated in the OU13 RFI/RI Work Plan (DOE 1992a) per medium and analytical suite and/or physical measurement.

Table D-5 summarizes a comparison of samples required in the OU13 RFI/RI Work Plan (DOE 1992a) and Technical Memorandum 1 (DOE 1994a) versus the actual samples collected and analyzed. During the field sampling activities, additional samples were collected as directed by

EG&G. The quantity of samples collected and the types of analyses conducted meet the DQO requirements of the OU13 RFI/RI Work Plan and Technical Memorandum 1.

4. Completeness - Completeness is a quantitative measure of data quality expressed as the percentage of valid or acceptable data obtained from a measurement system. Evaluating completeness involves reviewing analytical data with respect to matrix type and analytical suite for real samples and for QC samples (EG&G 1994e). The numbers of real samples and duplicates should comply with those specified in the OU13 RFI/RI Work Plan (DOE 1992a).

The following formula was used to calculate data completeness for each analytical parameter:

$$\text{Completeness} = DP_u = (DP_t - DP_n) / DP_t \times 100$$

where:

DP_u = Percentage of usable data points

DP_n = Nonusable data points

DP_t = Total number of data points

The OU13 RFI/RI Work Plan (DOE 1992a) did not specify data completeness percentages for the surface-soil analysis. However, as shown in Table D-6, the completeness of the data were found to be greater than 99 percent. DQO guidance provided by the EPA (EPA 1987) states that environmental projects of this nature should require completeness goals of 80 to 85 percent. OU13 completeness percentages are well above these completeness goals.

5. Comparability - Comparability is a qualitative measure defined as the confidence with which one data set can be compared to another. For data sets to be comparable, they should have common protocols used for collection or synthesis of the samples, common matrix types (soil or water), common temporal considerations (periodical, seasonal, event-related), and comparable

spatial distributions (three-dimensional) (EG&G 1994e). Evaluation of comparability requires comparison of real samples with other real samples and comparison of real samples with background data.

The OU13 sample collection activities were conducted in accordance with the SOPs that were clearly identified in the OU13 RFI/RI Work Plan's Field Sampling Plan in Table 6-3 (DOE 1992a). Field notes taken during surface-soils sample collection indicate that these SOPs were followed. The SOPs specified the depths and soil quantities for surface-soil sampling. Similar protocols were followed with regard to sample locations within each IHSS or IHSS group. Specifically, 11 samples were taken in each IHSS or IHSS group in areas of likely contamination based on historical information, HPGe detections, and visual inspections. The remainder of the samples were randomly placed. Thus, the procedures followed were similar for each IHSS. The samples were collected during June, July, and August of 1994; thus, no seasonal effects are expected. Based on this information, the data collected are expected to be comparable to each other.

Background soils data that are expected to be comparable to these OU13 surface-soils data include the Rock Creek surface-soils data collected as part of RI/FS activities for OU1 in 1991 and OU2 in 1993. These sample collection activities followed standard procedures for surface-soil sample collection during RI/FS work (EG&G 1995a). Additional background data, which are pending approval for usage, include surface-soils data collected during the Background Soils Characterization Program (BSCP), which followed similar sampling methods and analytical techniques as the OU projects at RFETS (EG&G 1995a). These BSCP data are expected to be more representative for fallout radionuclides than those for Rock Creek because of a larger sample population located in an area slightly more remote from RFETS (EG&G 1995a). However, the 0- to 6-inch soil profile samples taken for this OU13 study are not readily comparable to the data provided in the Background Geochemical Characterization Report (DOE 1993) for the Rocky Flats Alluvium.

Comparison of Real Samples with Quality Control Samples. Identification of contaminants present in QC field samples and comparison of these contaminant concentrations to concentrations in real samples is useful to assess whether proper QC was used in the field. This evaluation is similar to that performed in the laboratory with laboratory blanks, which may result in data for organics being "B" qualified due to contaminant presence in the laboratory blank. For the OU13 field blanks, any contaminants detected in the field blanks have already been taken into account in the validation code assigned to the validated data. No data were rejected due to contamination in laboratory or field blanks although some samples were "B" qualified. Thus, the pertinent QC field samples for purposes of this evaluation are rinsates.

A total of 28 equipment rinsate blanks were collected and analyzed to determine the efficiency of the decontamination process and to ensure that no cross-contamination occurred between sampling locations. The frequency specified for equipment rinsate blanks in the OU13 RFI/RI Work Plan (DOE 1992a) was met. Table D-7 contains a summary of the contaminants detected in the rinsate samples compared to concentrations of the contaminant in real samples collected in the same batch as the corresponding rinsate sample.

To assess whether the contaminant concentration detected in the real sample was a "true detect," a series of decisions was made. If the detected analyte was a common laboratory contaminant and the real sample concentration was less than 10 times the rinsate concentration, then the potential contaminant was considered to be a laboratory contaminant in the real sample. Common laboratory contaminants were considered to include compounds such as acetone and methylene chloride. If the detected analyte was not a common laboratory contaminant and the real sample concentration was less than five times the rinsate concentration, then the potential contaminant was considered to be a laboratory contaminant in the real sample. For OU13, no common laboratory contaminants were identified in rinsate samples, so the decision-making criteria, or "threshold value," was five times the contaminant concentration detected in the rinsate sample.

At the end of Table D-7, a summary table of the false (non-true) detects is provided. As shown in this portion of the table, the only false detections were tritium in several samples in IHSSs 128, 134S, 158, and 171. These false detections (i.e. sample detections less than five times the reported concentration in the rinsate or blank) should be taken into consideration when interpreting data for tritium in these IHSSs. Overall, the comparison of rinsate samples with real surface-soil samples shows that (1) a high level of quality control was used in the field sampling activities, and (2) most of the reported detections in the real samples are considered to be true detections.

Conclusions of the DQO Evaluation. As discussed in the introduction to this section, there are two primary DQOs defined in the OU13 RFI/RI Work Plan (DOE 1992a) that are pertinent to data collected during Stage 1 sampling. Given these objectives and the evaluation of PARCC parameters, the overall conclusion with regard to DQOs is that the activities conducted during Stage 1 surface-soil sampling activities achieved their goals with the following exceptions:

- Accuracy requirements for the TAL metals and additional metals were not met. The possibility of an RFEDs reporting error is being investigated as a possible explanation of this problem. The detection limits for these analytes corresponded to RDLs for water analyses rather than soil analyses.

- Tritium was detected in rinsate samples in IHSSs 128, 134S, 158, and 171. Several false detections for tritium were reported in real samples corresponding to those rinsate samples. These false detections should be taken into account when evaluating tritium data in those IHSSs.

Given these two qualifications, the data are sufficiently precise, accurate, representative, complete, and comparable to screen areas of contamination within OU13. Although some

individual samples have been qualified or rejected, the overall results of the surface-soils sampling program are acceptable.

3.1.7 Soil-Gas Survey

Results of the soil-gas survey were used as a screening technique to identify VOCs that exceeded the target detection limit of 1.0 micrograms per liter (μg/L). The target detection limit of 1.0 μg/L and the target compounds specified in the OU13 RFI/RI Work Plan (DOE 1992a) are listed in Section 2.0, Table 2-2 of this Data Summary. Soil-gas plates present concentrations that exceed the target detection limit of 1.0 μg/L. All sample results are listed in Appendix E. Appendix E-1 lists all valid data. E-2 lists rejected data. E-3 lists detected concentrations. E-4 lists analytes detected by IHSS. All discussions of soil-gas results for OU13, including nature and extent, are in this section.

Detection limits of 0.1 μg/L were used as guidelines for the mobile laboratory. Field-laboratory chemists flagged all data associated with method blank contaminants with a "B." These data were assessed and no significant bias was found for blank contaminants. In any case where an analyte in a blank was detected above the action level of 1.0 μg/L, the task manager requested resampling for all associated sample locations. The mobile laboratory reported all analytical results. Values found to be outside the linear calibration range were flagged as "J," indicating an estimation by the field chemists.

Typical field procedures included collecting only a 1-liter volume of soil gas for most of the sample locations. However, at locations where substantially higher concentrations of VOCs were suspected, 100-milliliter (mL) and 10-mL samples were collected in addition to the 1-liter sample.

All sample results were evaluated by the onsite task manager to ensure the data generated by the mobile laboratory during the soil-gas survey met DQOs as specified in the Quality Assurance Addendum, Section 10.0 of the OU13 RFI/RI Work Plan (DOE 1992a). In addition, the mobile laboratory operations and procedures were audited by CDPHE and DOE chemists. These audit findings primarily addressed the calibration criteria of plus or minus (±) 50 percent. The auditors noted that the SW-846 methodology specifying ±30 percent was not followed by the laboratory personnel. After review of the actual calibration data, the field laboratory chemists determined that a majority of calibration check compounds met the ±30 percent criteria. Because of the complexity of the soil gases, it was not always possible to meet the more stringent criteria. No formal data validation is required for Level II field analyses (EPA 1992). The data generated for the soil-gas survey met their intended use by providing a preliminary assessment for site characterization.

Duplicates, other QC samples, resamples, and various dilutions were analyzed during the soil-gas investigation at OU13. The data assessment for soil-gas data included a comparison of the primary real sample with its corresponding duplicate and/or dilution sample analysis. One sample was selected from each unique sample location based on the following criteria:

- Resamples are selected over the real sample if the original analysis was not valid.

- If the duplicate or dilution sample contained the same number of compounds detected as the real sample, or no compounds were detected in either sample, the primary sample was selected.

- The real, duplicate, and/or dilution sample was selected over other samples from a unique location when the number of compounds detected in that sample was higher.

- Multiple samples from a unique location were evaluated together when one sample contained more detected compounds, and any additional sample(s) contained significantly higher concentrations of detected compounds.

Appendix E-3 indicates which analytical result was used with an "at" symbol (@).

A comparison of RPD was not calculated because the soil-gas data are screening-level data (EPA 1992).

One hundred eighty-six of the soil-gas locations were not sampled. The sites were not sampled for a variety of reasons. In many cases, utility clearances could not be obtained because of underground pipes, tanks, or electrical lines. Some locations were inaccessible due to their location under Conexes™ or trailers. Other sites were not sampled because the Geoprobe encountered refusal either due to a high vacuum or saturated soil. A high vacuum occurs when the vacuum pump on the Geoprobe has a change in pressure of more than 12 inches of mercury, making it impossible to obtain a volume of air that is reliable. Whenever possible the location was moved in order not to have to abandon the site. However this was not possible in all cases.

Data from 46 sample locations were rejected because internal response standards were outside laboratory criteria. Rejected data are shown in Table E-2. Resampling was done and the results are shown in Table E-1 with all the soil-gas data. Resampled data are identified with an "R" at the end of the sample identification number.

In the following sections, soil-gas data are presented in tables and on plates that display all data that exceed the target detection limit of 1.0 μg/L, except for methane and hydrogen sulfide. For methane, values reported are those that exceed the instrument detection level of 20 parts per million (ppm) and estimated values of 10 ppm. For hydrogen sulfide, values reported are those that exceed the instrument detection level of 5 ppm.

3.2 IHSS GROUP 117.1 AND 197 - NORTH CHEMICAL STORAGE SITE AND SCRAP METAL SITES - 500 AREA

Detailed descriptions, historical information, and background for this IHSS group are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.2.1 High Purity Germanium Survey

Seventeen HPGe survey locations were monitored in IHSS Group 117.1 and 197. Seven stations had Pu-239 activities above the MDA, ranging from 0.4 nCi/g to 27.2 nCi/g. Fifteen stations had Am-241 activities above 0.1 pCi/g, ranging from 0.3 pCi/g to 468 pCi/g. Results can be found in Appendix A-1.

The survey location that reported the highest Pu-239 and Am-241 activities, Station 10F, also had U-235 and U-238 above background activities (with a Ra-226/U-238 ratio of less than 0.35 and U-238 exceeding the HPGe background of 2.3 pCi/L). Stations 5D and 9X also reported elevated Am-241, Pu-239, U-235, and U-238 activities. Stations C and 9Y had Am-241 and U-238 above background, as well as a Ra-226/U-238 ratio of less than 0.35; two other survey locations had Am-241 and U-235 activities above background.

Nothing in the history of this IHSS group suggests the presence of Am-241. It is believed that the elevated Am-241 activities noted at these HPGe survey locations are due to shine from Buildings 569 (a crate-counting facility), 559 (a plutonium analytical laboratory), and 528 (the waste-holding pit for Building 559) (EG&G 1990; EG&G 1992e). Plate 1 demonstrates that Am-241 activities are extremely elevated in the vicinity of Building 569 and gradually decrease with distance from the building. Based on this pattern of Am-241 readings, it is expected that materials contained in Building 569 are significantly influencing HPGe measurements. Building 569 is a crate-counting facility that could reasonably contain radioactive materials. An

NaI survey conducted in support of OU14 work clearly showed that Building 569 was a significant source of radiation, with gamma counts as high as 10,206 counts per minute (cpm). HPGe Station 10F, located about 100 feet southeast of IHSS 197, had the highest reported activities for Am-241, Pu-239, U-238, and U-235 in OU13. However, this HPGe station is within 50 feet of Building 569. HPGe Stations 9X and 9Y are also outside of IHSS 197, but reported elevated Am-241, Pu-239, U-238, and U-235 activities (Station 9X only) that can probably be attributed to shine from Building 569. HPGe stations within IHSS 197, including Stations F, G, and 5D, are probably strongly influenced by shine emanating from Building 569. Elevated Am-241 and Pu-239 results at HPGe Stations 5C and 5E are probably due to shine from Building 559, which is within 50 feet and 100 feet of the survey locations, respectively.

The remaining HPGe survey locations with elevated Am-241 activities indicate a trend of increasing activity primarily toward Building 569 and somewhat toward Building 559. This may be attributed to the shine from these sources. Radiological results from surface-soil sampling are presented in Section 3.2.3.

Supplemental NaI (FIDLER) surveys were also conducted in an area where plutonium was detected by the HPGe survey as discussed in Section 3.1.1.

An evaluation of the NaI survey results indicates a range of net count readings with IHSSs 117.1 and 197 from below background to 1,973 cpm. This confirms the elevated HPGe readings for this IHSS. In addition, an NaI survey was performed in the southeastern portion of IHSS 197 between the Protected Area fences. The background reading for this survey was 2,478 cpm. Intermittent FIDLER readings were also obtained between the Protected Area fences at IHSS 117.1 (DOE 1994a). Because the HPGe results detected plutonium in IHSS 197, two additional VSP samples and three additional surface-soil samples have been collected in addition to those originally proposed in the OU13 RFI/RI Work Plan (DOE 1992a).

Several metal storage sheds and Connexes™ of RCRA Storage Area No. 1, which stores hazardous waste, are within IHSS 197. These will be removed during the site characterization process and additional HPGe readings will be obtained from the area of the displaced sheds.

Plate 1 displays the americium concentrations. HPGe locations for IHSSs 117.1 and 197 are illustrated on Plate 1, Americium Specific Activity Map.

3.2.2 Vertical Soil Profiles

Four VSP sample sites were located in the area of IHSSs 117.1 and 197. Americium-241 and Pu-239 activities were not elevated above MDAs. U-235 was present in only two samples above MDAs at any location or any depth. These samples were the 0- to 2-inch sample F-13R/SS309993/VP31894 (0.168 pCi/g) and the 4- to 6-inch sample D-13/SS310293/VP31594 (0.174 pCi/g). These two activities for U-235 are well below the background concentration for this radionuclide (0.1983 pCi/g).

3.2.3 Surface-Soil Sampling

Fourteen surface-soil samples were collected from locations within IHSS Group 117.1 and 197. Surface-soil sample locations were placed randomly. Areas of stressed vegetation or soil staining were not observed. A duplicate sample was obtained from Location SS309793 in IHSS 197. Complete surface-soil analytical results are included in Appendix C.

Tables 3-4 and 3-5 summarize the detected analytes.

Tables 3-6 and 3-7 list detected constituents, reported concentrations, and sample locations. The tables also provide the MDL as given in the OU13 RFI/RI Work Plan (DOE 1992a), background

concentrations, and PRGs, and indicate sample analytes that exceed either of the reference concentrations.

Surface-soil sample locations for IHSS Group 117.1 and 197 are shown in Figure 3-1, and concentrations are illustrated on Plate 2.

Four surface-soil samples were collected within the IHSS 197 boundary (Locations SS309693, SS309793, SS309893, and SS309993), nine surface-soil samples were collected within IHSS 117.1 (Locations SS308993, SS309193, SS309203, SS309393, SS309493, SS309593, SS310093, SS310193, and SS310293), and one surface-soil sample was collected from the area where IHSSs 117.1 and 197 overlap (Location SS309093). Two of the surface-soil samples taken from IHSS 197 were collected from beneath the asphalt pavement (Locations SS309893 and SS309993).

Thirty-one analytes were detected at IHSS Group 117.1 and 197, including 24 inorganics, six radiological analytes, and two organics. The organics detected in this IHSS group are toluene and chloroform, both VOCs.

Five inorganic analytes exceeded background at a minimum of one sample location throughout IHSS Group 117.1 and 197: copper, lead, silver, zinc, and Pu 239/240. Mercury was detected in one surface-soil sample at the background concentration of 0.2 milligrams per kilogram (mg/kg). Selenium was also detected at its background concentration of 1.4 mg/kg. Of the analytes detected above background, only lead does not have a PRG available.

3.2.4 Soil-Gas Survey

The soil-gas survey was conducted on a 20-foot grid at 99 soil-gas locations in IHSS 117.1 and at 40 locations in IHSS 197. Figure 3-2 is a plot of soil-gas locations for both IHSSs. Soil-gas

results are presented in Appendix E. Table E-3 summarizes the detected analytes. Plate 3 provides sampling locations and analytically determined values that exceed 1.0 μg/L.

Initial samples from 37 locations in IHSS 117.1 were rejected because internal response standards were outside laboratory criteria. New sample numbers were assigned to the sites. Data for the resampled sites are included in Appendices E-1 and E-3.

After examining the soil-gas locations where concentrations above the detection limits were found during screening, additional soil-gas sample locations were added in order to determine the extent of contamination. Four soil-gas sample locations were added to the north portion of IHSS 117.1 and one (SG216294) was added to the northeast portion of the IHSS. The northeastern edge of the IHSS borders the fence of the Protected Area; thus, obtaining clearance to sample in this area is difficult. Therefore, Location SG216294 was relocated from IHSS 117.1 to the other side of the Protected Area fence in IHSS 197. The location numbers are listed in Appendix E and the analytical results are included with the other soil-gas data for this IHSS.

The soil-gas data show elevated concentrations of fuel constituents, including benzene, toluene, ethylbenzene, and chlorinated hydrocarbon solvents such as PCE, TCE, and carbon tetrachloride. The soil-gas plot on Plate 3 shows that the chlorinated hydrocarbon solvents are generally located in the central portion of IHSS 117.1 between Building 223 and the Protected Area perimeter fence. The source of the chlorinated hydrocarbons is probably the scrap metal and machining turnings that were stored in this area until the Property Utilization and Disposal Storage Yard was opened in 1974. Chlorinated hydrocarbons are also found along the southern boundary of IHSS 117.1 and the northern end of IHSS 197. The halogenated hydrocarbons are major components in degreasers and paint strippers. The elevated fuel constituent concentrations are localized along the southern border of IHSS 117.1 near Building 549, adjacent to Sage Street, and in the southern portion of IHSS 197 between the Protected Area perimeter fence and

Seventh Street. The presence of fuel constituents along a major street and in the vicinity of buried construction debris is not surprising. The maximum concentrations of the fuel constituents benzene and toluene are less than 10 μg/L.

Acetone is present as an isolated detection in one or more samples. Acetone is a common laboratory contaminant and was never detected in samples from this IHSS in concentrations greater than 2.0 μg/L.

3.2.5 Asphalt Sampling

Asphalt samples were collected at two locations in IHSS 197 (Locations SS309893 and SS309993). Based on a comparison to background $UTL_{99/99}$, one sample (Location SS309893) showed silver (59.5 mg/kg) to be elevated. However, this asphalt sample, located near the southern boundary of IHSS 197, did not exceed the PRG for silver. No other metals showed elevated concentrations at these two locations. Radionuclides were not analyzed in asphalt samples from these two locations. Complete analytical results for asphalt samples are included in Appendix B.

3.3 IHSS GROUP 117.2, 158, 169, and 190 - MIDDLE CHEMICAL STORAGE SITE, BUILDING 551 RADIOACTIVE SITE, AND WASTE PEROXIDE DRUM BURIAL

Detailed descriptions, historical information, and background for this IHSS group are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.3.1 High Purity Germanium Survey

Eleven HPGe survey locations, Stations O through W, YY, and 9Z, were monitored in IHSSs 117.2 and 158. In accordance with the OU13 RFI/RI Work Plan (DOE 1992a), HPGe readings

were not taken at IHSS 169 because hydrogen peroxide is the only chemical reported present. HPGe surveys are designed to detect only radionuclide activities in soils. Plutonium-239 was detected at 0.7 nCi/g at Station 9Z. Americium-241 was detected at eight of the 11 stations with values ranging from 0.3 pCi/g to 14.6 pCi/g. The maximum Am-241 activity was found at Station 9Z, which contained the Pu-239 and is located about 150 feet from the east boundary at IHSS 117.2. Station 9Z is probably strongly influenced by shine from Building 569 (EG&G 1990). As discussed for IHSS 117.1, Plate 1 clearly demonstrates a trend of decreasing Am-241 activities with distance from the building. Furthermore, NaI results for OU14 clearly showed Building 569 to be a source of elevated gamma counts in this area. Uranium-238 was found at Station O above the screening criterion at 2.3 pCi/g and with a ratio of R-226 to U-238 less than 0.35. Uranium-235 was detected above background at 0.1 pCi/g within IHSS 117.2 at Station Q.

Two NaI surveys were also performed within IHSS 117.2 at HPGe Station Q where Am-241 was found at 6.3 pCi/g. The NaI survey results indicated a net count of 400 cpm in this area, well below the background reading for this survey of 1,630 cpm. HPGe survey locations for IHSSs 117.2 and 158 are illustrated on Plate 1, the Americium Specific Activity Map.

3.3.2 Vertical Soil Profiles

Four VSP sample sites were located in the area of IHSSs 117.2, 158, and 169. Am-241, Pu-239, and U-235 activities were not elevated above MDAs at any location or any depth.

3.3.3 Surface-Soil Sampling

Twenty-two surface-soil samples were collected from 22 locations at IHSS 158 and IHSS 117.2. Surface-soil sample locations were placed near stressed vegetation. There were no surface-soil samples taken from IHSS 169. Two duplicate samples were taken from IHSSs 158 and 117.2,

one at Location SS304593 (IHSS 158), and one at Location SS305893 (IHSS 117.2). Complete analytical results are included in Appendix C. Tables 3-8 and 3-9 summarize the detected analytes.

Tables 3-10 and 3-11 list detected constituents and their reported concentrations by sample location, the MDL as given in the OU13 RFI/RI Work Plan (DOE 1992a), background concentrations, and PRGs. Concentrations greater than background and PRGs are appropriately indicated.

Surface-soil sample locations are shown in Figure 3-3, and concentrations above background are illustrated on Plate 4.

Eleven surface-soil samples were collected within IHSS 158 (Locations SS303693, SS303793, SS303893, SS303993, SS304093, SS304193, SS304293, SS304393, SS304493, SS304593, and SS304693).

Of the 11 surface-soil samples that were collected within IHSS 117.2, two were obtained within the storage tent in the northern half of the IHSS (Locations SS300193 and SS300293). Three surface-soil samples were collected within the outside storage area in the southern half of IHSS 117.2 (Locations SS305893, SS305993, and SS306093). The remaining six surface-soil samples were collected outside of the storage tent in the northern half of IHSS 117.2 (Locations SS306193, SS306293, SS306393, SS306493, SS306593, and SS306693).

Thirty-eight analytes were detected within IHSSs 117.2 and 158, including 25 inorganics and 13 radiological analytes.

Thirteen analytes exceeded background at a minimum of one sample location throughout IHSSs 117.2 and 158: calcium, chromium, cobalt, copper, lead, nickel, zinc, Am-241, Pu-239/240, Ra-226, U-235, U-238, and U-233/234.

Of analytes exceeding background, lead, and cobalt do not have PRGs available.

Beryllium exceeded its PRG at Location SS304393 within IHSS 158, immediately west of and exterior to Building 551.

3.3.4 Basefill Samples

Basefill samples were taken at two locations in IHSS 117.2 (surface-soil Locations SS300193 and SS300293). The purpose of collecting these samples was to quantify the presence of contamination in this material overlying the local soil at IHSS 117.2. Basefill has been observed at a number of surface-soil sampling locations throughout the plantsite, and is present at thicknesses ranging from 0 to 8 inches. When this change in the soil horizon was encountered during surface-soil sampling, the top soil interval was sampled as basefill and the underlying local soil interval was sampled as surface soil. Because the deposition of basefill is considerably more recent than the deposition of local soils, its contamination history is different. Therefore, not only is it necessary to isolate basefill from the native soil samples, it is also important to characterize any recent contamination that may be present in this overlying material.

Two basefill samples were collected at two separate locations within the storage tent in the northern half of IHSS 117.2 (Locations SS3000193 and SS3000293) at depths (beneath asphalt) of 3 to 6 inches and 3.5 to 8 inches, respectively. Both samples were analyzed for metals and radionuclides. None of the analytes exceeded background $UTL_{99/99}$ concentrations. Complete analytical results for the basefill samples are included in Appendix C.

3.3.5 Soil-Gas Survey

The soil-gas survey was conducted on a 20-foot grid in accordance with the OU13 RFI/RI Work Plan (DOE 1992a). One hundred forty-four soil-gas locations in IHSS 117.2 and 83 locations in IHSS 158 were sampled. No soil-gas samples were collected for IHSS 169. Figure 3-4 presents soil-gas locations for IHSSs 117.2 and 158. Soil-gas concentrations exceeding the target detection limit of 1.0 μg/L are exhibited on Plate 5. A summary of analytes that exceed detection limits is presented in Table E-2.

Nine soil-gas sample locations from IHSS 117.2 were rejected because internal response standards were outside laboratory criteria. Rejected data are listed in Appendix E-2. Resampling sites are included in Appendices A-1 and A-3.

After examining the soil-gas locations where concentrations above the detections limits were found, 43 sample locations were added around IHSSs 117.2 and 158 in order to determine the extent of contamination. Fourteen locations were added to the west of IHSS 117.2, 16 locations to the east of the IHSS, seven locations to the north of the IHSS, and five locations to the north of IHSS 158. The location numbers are listed in Appendix E and the analytical results are included with the other soil-gas data for this IHSS.

In accordance with the OU13 RFI/RI Work Plan (DOE 1992a), soil-gas samples were not taken at IHSS 169.

The soil-gas data indicate that there are two families of gases residing within the soils at this group of IHSSs: fuel components and chlorinated hydrocarbon solvents (Plate 5).

BTEX has widespread distribution in the north-central and southern portions of IHSS 117.2 and along the eastern border of IHSS 158. These areas are associated with the storage of scrap

metal and machining wastes (IHSS 117.2) and operations at the Building 551 warehouse that receives and distributes office supplies, chemicals, motor oil, etc. (IHSS 158). The fuel components generally correspond to the locations used for the storage of drums and scrap metal.

Elevated concentrations of chlorinated hydrocarbon solvents and their breakdown products, including PCE, TCE, and vinyl chloride, are generally limited to the northern, northeastern, and southeastern portions of IHSS 158, and the northern and southern ends of IHSS 117.2 At several locations the chlorinated hydrocarbons overlap with the fuel constituents in this southern area. The storage of machining waste drums and their associated cutting oils and degreasers is a likely source of chlorinated hydrocarbons in the southern area. Elevated concentrations in the northern portion of IHSS 158 may be attributed to leakage from waste boxes described in the OU13 RFI/RI Work Plan (DOE 1992a).

Several soil-gas samples showed measurable acetone. These samples were mostly isolated and did not show a discernible pattern. Laboratory contamination probably accounts for the measured acetone concentrations.

3.3.6 Asphalt Sampling

Asphalt samples were collected at two locations within the storage tent in the northern half of IHSS 117.2 (Locations SS3000193 and SS3000293). No analytes were detected above background $UTL_{99/99}$.

Complete analytical results for asphalt samples are included in Appendix B.

3.4 IHSS 186 - VALVE VAULT 12

Detailed descriptions, historical information, and background for this IHSS are in the OU13 RFI/RI Work Plan (DOE 1992a) and HRR (DOE 1992b).

3.4.1 High Purity Germanium Survey

Two HPGe survey locations were monitored at IHSS 186. Plutonium was not detected but Am-241 was detected at one location with an activity of 0.2 pCi/g. No other radionuclide was found above background in this IHSS. These results were further supported by a NaI detector survey before surface-soil and soil-gas collection took place. The HPGe survey locations used for IHSS 186 are illustrated on Plate 1, the Americium Specific Activity Map.

3.4.2 Vertical Soil Profiles

Two VSP sample sites were located in the area of IHSS 186. Pu-239 was not elevated above MDAs at either location or at any depth. However, Am-241 was present above background at two separate depths from sample site I-13/SS305593/VP30894. The 0- to 2-inch-deep sample (2.88 pCi/g) exceeded the PRG (2.37 pCi/g) for this isotope. The U-235 activity (0.254 pCi/g) at the 4- to 6-inch below ground surface level at site I-13/SS305598/V30894 exceeded both the background concentration (0.1983 pCi/g) and the PRG.

3.4.3 Surface-Soil Sampling

Surface-soil samples were collected from 11 locations in IHSS 186. There were no areas of stressed vegetation or soil staining noted in this IHSS, thus surface-soil sample locations were randomly placed. A duplicate sample was obtained from Location SS305693. Complete analytical results are included in Appendix C.

Table 3-12 summarizes the detected analytes. Table 3-13 lists constituents, detected concentrations, sample locations, the MDL concentrations as given in the OU13 RFI/RI Work Plan (DOE 1992a), background concentrations, and PRGs. Sample concentrations that exceed either of the reference concentrations are identified in Table 3-13.

Surface-soil sample locations for IHSS 186 are shown in Figure 3-6, and concentrations are illustrated on Plate 7. All 11 surface-soil samples were collected from within IHSS 186's boundaries.

Based on the history of the original process waste line between Valve Vault 12 and Valve Vault 13, only radionuclides were analyzed on surface-soil samples obtained from IHSS 186. Americium-241, gross beta, Pu-239/240, and U-238 exceeded background concentrations at IHSS 186.

Of the analytes exceeding background, only gross beta does not have an available PRG.

Pu-239/240 exceeded both the PRG and background levels at Location SS305593, immediately adjacent to the north side of Building 549.

3.4.4 Soil-Gas Survey

The soil-gas survey was conducted on a 20-foot grid. Sixty-nine soil-gas locations were sampled. Plate 6 is a plot of the soil-gas locations for IHSS 186 with concentrations above 1.0 μg/L. Appendix E-3 lists all of the detected concentrations and identifies detected concentrations shown on Plate 6.

Chlorinated hydrocarbons were detected above 1.0 μg/L at six locations on the southern end of the IHSS. Five of the locations are in the southeastern corner.

Benzene was observed in concentrations of 1.4 μg/L at Location SG189194 at the south end of IHSS 186. The other fuel compounds were not present above 1.0 μg/L in this IHSS.

3.4.5 Adjacent and Overlapping IHSSs

IHSS 186 overlaps with two other IHSSs in OUs 8 and 14 within the Industrial Area (Figure 3-7). IHSS 172 in OU8 is the Central Avenue Waste Spill that was contaminated by a leaking drum that was transported from the 903 Pad to Building 771. The drum had contained carbon tetrachloride, percholoroethylene, uranium, and plutonium. IHSS 156.1 in OU14 is a contaminated soil pile that was subsequently removed. Before removal the soil pile exhibited 3 to 704 disintegrations per minute per gram. Based on the IFSP (EG&G 1994c) additional in situ HPGe radiological readings were collected for overlap analysis. The in situ HPGe locations J-13, I-13, 4V-8, and H-13 were located in the vicinity of these IHSSs (Plate 1). Americium-241 was detected at one location at a specific activity of 0.2 pCi/g.

3.5 IHSS GROUPS 128, 171, AND 134(N & S) - OIL BURN PIT, NO. 1 WASTE LEAK, SOLVENT BURNING SITE, AND LITHIUM METAL DESTRUCTION SITES

Detailed descriptions, historical information, and background for this IHSS Group can be found in the OU13 RFI/RI Work Plan (DOE 1992a) and HRR (DOE 1992b). During the review of surface-soil sample locations for this IHSS group with the regulatory agencies, it was agreed that the area between IHSSs 134N and 134S and between IHSS 171 and 134S would also be investigated. The area between IHSS 134N and 134S is currently used as a vehicle storage area.

The OU13 RFI/RI Work Plan (DOE 1992a) was modified because of an incident during soil-gas sampling. On January 4, 1995, the soil-gas crew was sampling at Location SG163094 in IHSS 128 (Figure 3-8). At a depth approximately 4 to 10 feet below ground surface a thick, brown-

black sludge was observed on the soil-gas rods when they were removed from the hole. To further investigate the sludge at this location, a geoprobe tool was used to sample the sludge on February 27, 1995. The sludge sample was analyzed for VOCs, semivolatile compounds, and metals.

3.5.1 High Purity Germanium Survey

Five HPGe survey locations, Stations X through BB, were monitored in this IHSS group, which includes IHSSs 128, 171, 134 (North and South), and the area in between IHSS 171 and IHSS 134 South. Pu-239 and Am-241 were not detected at any of these stations. The in situ HPGe survey did not indicate any other radionuclides above background activities. These results were further supported by a NaI survey.

The HPGe survey locations for IHSSs 128, 171, and 134 (North and South) are shown on Plate 1, the Americium Specific Activity Map.

3.5.2 Vertical Soil Profiles

Two VSP sample sites were located in the area of these IHSSs. Am-241 and Pu-239 were not elevated above MDAs at either location or at any depth. Uranium-235 was detected in the single 4- to 6-inch-deep sample from site X-13/SS303093/VP30494 at a concentration of 0.22 pCi/g, which is above the background concentration of 0.1983 pCi/g.

3.5.3 Surface-Soil Sampling

Twenty-three surface-soil samples were collected from 22 locations in IHSS Group 128, 134N, 134(S), and 171. Surface-soil sample locations were placed near areas of stressed vegetation. Two duplicate samples were obtained from Locations SS302393 and SS302493 in IHSS 171, and

one duplicate sample was taken from Location SS302993 in IHSS 134S. Complete analytical results are included in Appendix C. Tables 3-14, 3-15, 3-16, 3-17, and 3-18 summarize the detected analytes.

Tables 3-19, 3-20, 3-21, 3-22, and 3-23 list detected constituents, reported concentrations, sample locations, and MDLs as given in the OU13 RFI/RI Work Plan (DOE 1992a), show background concentrations and PRGs, and indicate which sample analytes exceed either of the reference concentrations.

Surface-soil sample locations for IHSS Group 128, 134N, 134S, and 171 are shown in Figure 3-8, and concentrations are illustrated on Plate 7.

Thirty-one analytes were detected at IHSS Group 128, 134N, 134S, and 171. These analytes include 23 inorganics and eight radiological analytes. Concentrations of organics analyzed at location SS310393 were non-detectable.

IHSS 134N was the only IHSS within this group for which surface-soil samples were analyzed for volatile organics in addition to TAL metals, radiological analytes, and additional metals. Surface-soil samples from IHSSs 128, 134S, and 171 were only analyzed for lithium and magnesium and radiological analytes.

Thirteen analytes exceeded background for at least one sample location throughout IHSS Group 128, 134N, 134S, and 171. TAL metals exceeding background at IHSS 134N include calcium, copper, iron, magnesium, nickel, and sodium. Strontium also exceeded background at IHSS 134N. Magnesium exceeded background levels at Location SS301493, outside established IHSS boundaries. Within the IHSS group as a whole, Am-241, gross beta, Pu-239/240, U-233/234, and U-238 exceeded background at a minimum of two samples locations.

Of the 12 analytes detected above background levels, four (calcium, iron, magnesium, and gross beta) have no associated PRG. No analytes detected within IHSS Group 128, 134N, 134S, and 171 exceeded both background and PRG levels.

3.5.4 Sludge Sampling

In IHSS 128, sludge was observed on a soil-gas probe during routine soil-gas sampling. A geoprobe sample, BHG2254JE, was collected at this location and was analyzed for VOCs, semivolatile compounds, and metals. Analytical results are presented in Table 3-24. Forty-three analytes were detected in the sludge sample BHG225495.

Cadmium, nickel, and zinc exceeded background concentrations but not their associated PRGs. Thallium exceeded background concentrations but does not have an associated PRG.

No semivolatiles exceeded PRGs. There are several SVOCs that have no PRGs.

Volatile organics concentrations that exceed the PRGs are methylene chloride with an estimated concentration of 2,000 μg/L, TCE with an estimated concentration of 860 μg/L, and PCE in a concentration of 100,000 μg/L.

3.5.5 Soil-Gas Survey

The soil-gas survey was conducted on a 20-foot grid in accordance with the OU13 RFI/RI Work Plan (DOE 1992a). One soil-gas location was sampled in IHSS 128, 14 locations in IHSS 134N, 27 locations in IHSS 134S, and 31 soil-gas locations in IHSS 171. Figure 3-9 presents soil-gas locations for this IHSS group.

Three sample locations from IHSS 134S were rejected because internal response standards were outside laboratory criteria. All soil gas results except rejected data are presented in Appendix E-1 including resampled sites. Appendix E-2 lists rejected data. Appendix E-3 lists detected concentrations and identifies values used on Plate 8.

Plate 8 contains plots of the soil gas. The soil-gas data show elevated concentrations of both fuel constituents and chlorinated hydrocarbon solvents within the footprint of IHSSs 134N and 171. The halogenated hydrocarbon solvents are more prevalent in the eastern portions of the two coincident IHSSs. Fuel components (BTEX) were more prevalent in the northern portion of IHSS 128 and occur in isolated samples throughout the remaining IHSSs. Four isolated soil-gas samples within IHSS 134N contained minor acetone concentrations up to 2 μg/L. Five samples collected in the gap between IHSSs 134N and 134S contained benzene and PCE, respectively. Many of the soil-gas samples collected from the eastern portion of IHSS 134S contained elevated concentrations of the various BTEX fuel constituents. There were eight chlorinated hydrocarbon detections in IHSS 134S, one in the northeast corner and the rest east of a diagonal from the northeast corner to the southwest corner. This group of IHSSs was the former location of firefighter training. Waste solvents and fuels were used to fuel the conflagrations that were part of the training exercises. The solvents and fuels were simply dumped on the ground and it is apparent that some of the material infiltrated into the subsurface before the fires could consume them.

3.5.6 Area between IHSS 134N and 134S

Five soil-gas locations between IHSSs 134N and 134S were sampled. These soil-gas sample locations include SG166694, SG166794, SG166894, SG166994, and SG167094. The laboratory data for these locations are shown in Appendix E. These locations are presented in Figure 3-9.

In the area between IHSS 134N and 134S, benzene was observed at a concentration of 5.5 μg/L at Location SG166894. Acetone was also detected at 10 μg/L and PCE at 28 μg/L at Location SG167094.

Additional soil-gas locations were added to the area around IHSSs 134N and 134S, and the area outside of established IHSS boundaries in order to determine the extent of contamination. Seventeen additional soil-gas locations were sampled. Two soil-gas locations were added at the west end of IHSS 134N. Two locations were added to the east end of IHSS 134N. Seven sampling locations were added to the area outside of established IHSS boundaries. Four locations were added to the east of IHSS 134S and two sampling locations to the south of IHSS 134S. The laboratory data for these samples are included in Appendix E. Figure 3-9 presents the additional soil-gas locations.

At the two soil-gas locations added to the west end of IHSS 134N, three analytes were found to exceed the detection limits. Acetone was detected at Location SG216394 at a concentration of 2.2 μg/L. Benzene was observed at 1.3 μg/L at location SG216494. Toluene was present at a concentration of 1.1 μg/L at Location SG216394.

Two soil-gas locations were added to the east of IHSS 134N. Vinyl chloride was detected at 7.9 μg/L at Location SG212994.

Seven soil-gas sampling locations were added to the area outside of established IHSS boundaries. At Location SG213294, benzene was detected at 1.2 μg/L, and PCE was detected at a concentration of 4 μg/L.

Four soil-gas sampling locations were added to the east of IHSS 134S. No analytes were found to exceed the detection limits.

Two soil-gas locations to the south of IHSS 134S were added for contaminant plume delineation. Acetone was found at Location SG216794 at a concentration of 1.5 μg/L. Toluene was observed at location SG216894 at a concentration of 14 μg/L. These elevated concentrations are presented on Plate 8.

3.5.7 Asphalt Sampling

Asphalt samples were collected at two locations in IHSS 134S (Locations SS302693 and SS303593). A duplicate sample was obtained from Location SS302693. No sample concentrations exceeded background $UTL_{99/99}$ or PRGs.

At Location SS303593, located in the northwest corner of IHSS 134S, zinc was detected above background concentration (106 mg/kg). Uranium-233/234 was detected above background activity but did not exceed its PRG. U-238 was detected both above background and above the PRG for this radionuclide. Complete analytical results for asphalt samples are included in Appendix B.

3.6 IHSS 148 - WASTE SPILLS

Detailed descriptions, historical information, and background for this IHSS are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.6.1 High Purity Germanium Survey

The HPGe survey data for the four survey locations within IHSS 148 provided no evidence to indicate anomalous activities for Pu-239 or Am-241 at this IHSS. The in situ HPGe survey did not indicate any other radionuclides above background activities. These results were further supported by a NaI detector survey before surface-soil and soil-gas sample collection took place.

HPGe survey locations for IHSS 148 are illustrated on Plate 1, the Americium Specific Activity Map.

3.6.2 Vertical Soil Profiles

Two VSP sample sites were located in the area of this IHSS (Appendix A-2). Americium-241 was not elevated above MDAs at either location or at any depth. Plutonium was below the MDA at all depths for the two sites. Uranium-235 was below the MDA at site 3B-13/SS306893/VP31294, but was present above the MDA at the 0- to 2-inch depth (0.168 pCi/g) as well as the 2- to 4-inch depth (0.222 pCi/g) at site 3C-13/SS306993/VP31194. The sample from the 2- to 4-inch depth exceeds the background concentration (0.1983 pCi/g) for U-235.

3.6.3 Surface-Soil Sampling

Surface-soil samples were collected from 11 locations within and around the perimeter of IHSS 148. A duplicate sample was obtained from Location SS306993. Complete analytical results are included in Appendix C. Table 3-25 summarizes the detected analytes.

Table 3-26 lists detected constituents and their reported concentrations, the MDL as given in the OU13 RFI/RI Work Plan (DOE 1992a), background concentrations and PRGs, and indicates which sample analytes exceed either of the reference concentrations.

Surface-soil sample locations for IHSS 148 are shown in Figure 3-10, and concentrations are illustrated on Plate 9.

Ten surface-soil samples were collected outside the IHSS boundary (Locations SS306793, SS306993, SS307093, SS307193, SS307293, SS307393, SS307493, SS307593, SS307693, and SS307793) and one surface-soil sample was obtained within IHSS 148 (Location SS306893).

Two of the surface-soil samples taken from the area around IHSS 148 were collected from beneath an asphalt layer (Locations SS306793 and SS307293).

Thirty-four analytes were detected at IHSS 148, including 26 inorganics, and eight radionuclides. Ten analytes exceeded background at a minimum of one sample location throughout IHSS 148: chromium, cobalt, copper, lead, nickel, zinc, Am-241, Pu-239/240, U-233/234, and U-238. Of these analytes, cobalt, and lead do not have established PRGs.

3.6.4 Soil-Gas Survey

The soil-gas survey was conducted on a 25-foot grid in accordance with the OU13 RFI/RF Work Plan (DOE 1992a). Sixty-four soil-gas locations were sampled. Figure 3-11 is a plot of soil-gas locations for IHSS 148.

Total xylenes were observed in two locations with a concentration up to 43 μg/L. Elevated soil-gas concentrations are presented on Plate 9.

Appendix E-1 lists all valid soil-gas data. Appendix E-2 lists rejected data, and E-3 presents detected concentrations and identifies concentrations used on Plate 9.

Of the soil-gas samples collected in the vicinity of IHSS 148, 13 contained VOCs in excess of the 1 μg/L detection limit. Five samples contained one or more of the BTEX fuel constituents. Four BTEX-contaminated samples are from the area surrounding Building 123, the health physics laboratories, which is in the shape of an inverted U. The remaining BTEX-contaminated samples (SG171194 and SG171294) came from areas immediately north and south of the building. Trichlorofluoromethane was found in nine samples scattered around the IHSS at levels up to 2.6 μg/L. A sample contaminated with a small amount (1.5 μg/L) of PCE was collected to the east of Building 123. It has been documented that the disposal of organic extraction

liquids used in radionuclide analyses consisted of allowing them to evaporate from the sand in the vicinity of the laboratory building (DOE 1992a). It may be that some of these liquids infiltrated before evaporation was complete.

3.7 IHSS GROUP 157.1 and 191 - NORTH AREA RADIOACTIVE SITE AND HYDROGEN PEROXIDE SPILL SITE

Detailed descriptions, historical information, and background for this IHSS are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.7.1 High Purity Germanium Survey

The HPGe survey data for the six survey locations within IHSS Group 157.1 and 191 provided no evidence of anomalous activities for Pu-239 and Am-241. At Stations DD, EE, and GG, U-238 activities exceed 2.3 pCi/g, ranging from 2.5 to 2.7 pCi/g, and are present with Ra-226/U-238 ratios of less than 0.35. These three stations may be influenced by shine from Building 444 which handled U-238. No other radionuclide was found above background in this IHSS. These results were further supported by the NaI location survey before surface-soil and soil-gas collection. HPGe survey locations for IHSSs 157.1 and 191 are illustrated on Plate 1, the Americium Specific Activity Map.

3.7.2 Vertical Soil Profiles

Two VSP sample sites were located in the area of these IHSSs. Am-241 and Pu-239 were not elevated above background at either location or at any depth, with the exception of Am-241 at the 0- to 2-inch depth at site FF-13/SS300493/VP30194. At this site Am-241 was detected at 0.1 pCi/g, which is well below the PRG of 2.37 pCi/g. Uranium-235 was present above background only at the 0- to 2-inch depths at sites DD-13/SS300893/VP30294 and FF-

13/SS300493/VP30194, but both samples had U-235 concentrations below the maximum background concentration.

3.7.3 Surface-Soil Sampling

At the time of document preparation, the surface-soil data for IHSS 157.1 were only 43 percent validated. The analytical data were examined to best identify positive detections or nondetects within the nonvalidated portion. Analytical results for IHSS 157.1 are included in Appendix C. There are no surface-soil data for IHSS 191.

Table 3-27 summarizes the detected analytes. Table 3-28 lists detected constituents and their reported concentrations by sample location. The table also provides the MDL as given in the OU13 RFI/RI Work Plan (DOE 1992a) and shows background and PRGs, indicating which sample analytes exceed either of the reference concentrations.

Twelve surface-soil samples were collected from 11 sample locations in IHSS 157.1 (Locations SS300393, SS300493, SS300593, SS300693, SS300793, SS300893, SS300993, SS301093, SS301193, SS301293, and SS301393). The twelfth surface-soil sample was obtained from a sample location that had already been sampled (SS301193) in order to collect additional volume for semivolatile organic compounds (SVOC) reanalysis. Stressed vegetation or stained soils were not observed in this IHSS group (DOE 1994a). Two sets of duplicate samples were obtained from Locations SS300493 and SS300893. No surface-soil samples were taken from IHSS 191. Analytical results are included in Appendix C. Surface-soil sample locations for IHSS 157.1 are shown in Figure 3-12, and concentrations are illustrated on Plate 10.

Seven inorganic analytes, including copper, lead, zinc, Am-241, Pu-239/240, U-233/234, and U-238, exceeded background at a minimum of one sample location throughout IHSS 157.1. Of these analytes that exceeded background, only lead does not have an established PRG.

Of the 28 organics detected in surface-soil samples 10 do not have established PRGs. However, five detected SVOCs were PAHs that exceeded their respective PRGs. Three surface-soil samples contained concentrations of benzo(a)anthracene above the PRG, five samples contained concentrations of benzo(b)fluoranthene above the PRG, five samples contained dibenzo(a,h)anthracene above the PRG, and three samples contained indeno(1,2,3-cd)pyrene above the PRG. Benzo(a)pyrene exceeded its PRG in 12 of 14 surface-soil samples.

3.7.4 Soil-Gas Survey

The soil-gas survey was conducted on a 20-foot grid. Sixty-four soil-gas locations were sampled. Figure 3-13 presents soil-gas locations for IHSS 157.1. Elevated concentrations of soil gas are presented on Plate 10.

Among the soil-gas samples collected within the area of IHSS 157.1, three contained PCE and one contained trichlorofluoromethane in excess of the 1 μg/L detection limit. Two of these samples (SG1771994 and SG177294) are in the vicinity of tank 240 at the southern boundary of the IHSS. The final sample (SG178894) is located in the south-central portion of the IHSS near Building 428. The maximum PCE concentration is 2.1 μg/L. The isolated nature of the occurrences and low concentrations indicate that the presence of a chlorinated hydrocarbon is probably due to small, isolated spills of a metal degreaser or similar product.

In accordance with the OU13 RFI/RI Work Plan (DOE 1992a), soil-gas samples were not taken at IHSS 191.

3.7.5 Adjacent and Overlapping IHSSs

IHSS 157.1 overlaps one IHSS within OU12 (Figure 3-12). IHSS 187 of OU12 is a sulfuric acid spill. Additional pH analysis on four surface soil samples (SS301393, SS301093,

SS301193, SS300993) (Plate 10) was recommended to be added in IHSS 157.1 according to the IFSP (EG&G 1994c). An evaluation of the pH results for these surface soil samples indicates a range from 8.37 to 9.47.

3.8 IHSS GROUP 117.3 AND 152 - SOUTH CHEMICAL STORAGE SITE AND FUEL TANK 221 SPILLS SITE

Detailed descriptions, historical information, and background for this IHSS are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.8.1 High Purity Germanium Survey

Six HPGe survey locations, K through N and 5A and 5B, were monitored in IHSS Group 117.3 and 152. Am-241 was detected above background at all stations in this IHSS group, ranging from 0.2 to 0.8 pCi/g. Pu-239 was not detected above its MDL.

This IHSS group lies between two sources of significant shine. Building 569 is located about 600 feet to the northeast, and Building 664 about 500 feet to the south. As previously mentioned in IHSSs 117.1 and 117.2, Building 569 has been shown to be a significant source of shine in this area. Evidence suggesting this building as a source of shine includes the pattern of decreasing Am-241 activities with distance from the building. Building 664 is a waste storing and shipping facility (EG&G 1990) that is known to have stored radioactive mixed-waste, including uranium- and plutonium-contaminated materials (DOE 1992a). A similar pattern of decreasing Am-241 activities is also shown on Plate 1 with distance from this building. It is unclear whether these two sources could contribute to the Am-241 activities reported, but the trend appears to be consistent with Am-241 activities steadily decreasing from these buildings to the mid-point between them. The history of this area would not indicate such an extensive and uniformly distributed activity for Am-241.

Two stations indicated U-238 above 2.3 pCi/g (2.4 and 2.7 pCi/g), and with a ratio of Ra-226/U-238 of less than 0.35 pCi/g. Both of these survey locations may be influenced by shine from Building 444, which handled U-238 (EG&G 1994g). These trends may actually be within background as the HPGe gamma-radiation detector poorly quantifies activities. The U-238 values only slightly exceed the expected background. All other radionuclides screened were below background activities. HPGe locations for IHSSs 117.3 and 152 are illustrated on Plate 1, the Americium Specific Activity Map.

3.8.2 Vertical Soil Profiles

Four VSP sample sites were located in the area of these IHSSs. Appendix A-2 indicates that Am-241, Pu-239, and U-235 activities were not elevated above MDAs.

3.8.3 Surface-Soil Sampling

Surface-soil samples were collected from 11 locations in IHSS 117.3. Surface-soil sample locations were placed randomly in this IHSS because areas of stressed vegetation or soil staining were not noted. A duplicate sample was obtained from Location SS307993 in IHSS 117.3. Complete analytical results for surface-soil samples collected at IHSS 117.3 are included in Appendix C. There were no surface-soil samples obtained from IHSS 152.

Table 3-29 summarizes the detected analytes. Table 3-30 lists detected constituents, reported concentrations, sample locations, background concentrations, and PRGs. It also indicates which sample analyte concentration exceeds either of the reference concentrations.

Surface-soil sample locations for IHSS 117.3 are shown in Figure 3-14, and concentrations are illustrated on Plate 11.

Eleven surface-soil samples were collected from Locations SS307893, SS307993, SS308193, SS308293, SS308393, SS308493, SS308593, SS308693, SS308793, and SS308893 within IHSS 117.3. Two of the surface-soil samples were collected from beneath an asphalt layer (SS308793 and SS308893).

Thirty-two analytes were detected at IHSS 117.3, including 24 inorganics and eight radionuclides. No organics were found at detectable levels.

Six of 32 detected analytes (lead, selenium, zinc, Pu-239/240, U-233/234, and U-238) exceeded background at a minimum of one sample location throughout IHSS 117.3.

None of the samples exceeded established PRGs. However, lead and cobalt have no established PRG.

3.8.4 Soil-Gas Survey

The soil-gas survey was conducted on a 45-foot grid in accordance with the OU13 RFI/RI Work Plan (DOE 1992a). Twenty-seven soil-gas locations were sampled in IHSS 117.3 and 13 locations were sampled in IHSS 152. Figure 3-15 presents soil-gas locations for IHSS 117.3.

Eleven soil-gas samples were collected within the area of IHSS 152 and 34 within IHSS 117.3 (Plate 11). Two of these (SG160894 and SG157994) contained 1.1 μg/L of benzene. The locations of these samples are isolated and the concentrations are slightly elevated above the respective detection levels. These soil-gas data do not represent a manifestation of significant VOC contamination in the subsurface.

3.8.5 Adjacent and Overlapping IHSSs

IHSS 117.3 is adjacent to IHSS 160 of OU14 and overlaps with IHSS 172 of OU8 (Figure 3-15). IHSS 160 is a radioactive spill from leaking waste drums and boxes. Uranium, plutonium, PCBs, PCE, carbon disulfide, and 1,1,1- trichloroethene were contained in the drums and boxes. IHSS 172 of OU8 is the Central Avenue Waste Spill that was contaminated by a leaking drum that was transported from the 903 Pad to Building 771. The drum had contained carbon tetrachloride, percholoroethylene, uranium, and plutonium. According to the IFSP (EG&G 1994c), total uranium, total plutonium, gross alpha, and gross beta analyses were added to two surface-soil sample locations SS307993 and SS307893 at the southern edge of IHSS 117.3 (Plate 12) to evaluate the proximity to OU14 IHSS 160. In situ radiation surveys were recommended for evaluation of the overlap of IHSS 172 of OU8. IHSS 160 of OU14 added TAL metals to its analyte list for surface-soil samples located within 100 feet of IHSS 117.3. In situ HPGe locations K-13, L-13, M-13, and N-13 were located within the vicinity of IHSS 117.3 (Plate 1).

3.9 IHSS 190 - CAUSTIC LEAK

Detailed descriptions, historical information, and background for this IHSS are in the OU13 RFI/RI Work Plan (DOE 1992a) and the HRR (DOE 1992b).

3.9.1 High Purity Germanium Survey

Sixteen HPGe survey locations were monitored in IHSS 190. Pu-239 was not detected above background at any of these survey locations. Americium-241 was detected at nine stations ranging from 0.3 to 3.4 pCi/g. Nothing in the history of this IHSS would indicate that Am-241 should be expected. It is thought that the elevated readings at these stations are due to shine

from buildings or storage areas along the Central Avenue ditch that handled and stored waste contaminated with Am-241.

HPGe Station TT had the highest activity of U-238 in OU13, in addition to having U-235 and Am-241 above background. This station is located within 50 feet of the 904 Pad Pondcrete Storage Tent, which is a low-level mixed waste interim storage facility (DOE 1992b). This mixed low-level radioactive waste probably contains considerable activities of Am-241, U-235, and U-238, and therefore may account for the elevated activities near the storage tent. The elevated radionuclide activities at HPGe Stations RR, SS, and UU are also probably due to shine from this contaminated waste stored at this unit.

HPGe Stations UU, VV, WW, and XX each reported Am-241 above background and are located within 50 feet of the 903 Pad. The 903 Pad is a known source of Am-241 (DOE 1992b). Therefore, it is likely that the elevated activities are due to shine from this source.

Americium-241 was not detected above background in the center of this long, narrow IHSS (which is a ditch along Central Avenue). However, Am-241 was detected using HPGe at the headwater of the ditch at the west end of IHSS 190. These stations, including II, JJ, and KK, are located between two sources of significant shine, Building 569 about 400 feet to the north, and Building 664 about 800 feet to the southwest. It is unclear whether these two sources could contribute to the Am-241 activities reported, but the trend seems to be consistent, with Am-241 activities steadily decreasing from the buildings to the area of IHSS 190. See IHSS 117.3 for more information about the probable influence of shine from these two buildings.

The historical release in this IHSS would not suggest that Am-241 should be expected. However, the ditch is a conduit for other releases, which could contain Am-241.

HPGe Stations KK, LL, MM, and NN had U-238 activities ranging from 3.8 to 13.1 pCi/g. Nothing in the history of this IHSS indicates that U-238 should be expected; therefore, it is believed that the elevated U-238 activities noted at these survey locations may be due to shine from buildings in the 800 area that processed enriched and depleted uranium (EG&G 1994g). Elevated U-238 activities will be investigated as part of the future sediment sampling in the industrial area for the OU12 RFI/RI effort.

Two survey locations (Stations MM and TT) had U-235 above the background (0.09 pCi/g), at 0.12 pCi/g and 0.60 pCi/g. Station MM may have been influenced by shine from Building 883 which fabricated enriched uranium parts (EG&G 1994g), and Station TT may have been influenced by shine from the 904 Pad Saltcrete Storage as discussed previously.

An NaI survey was also performed at IHSS 190. An evaluation of the NaI survey results indicates a net count range in readings from below background to 9,419 cpm. Radiological Engineering of EG&G (DOE 1994a) was immediately notified of the 9,419 cpm reading. Radiological Engineering concluded that no radiological risk to personnel is associated with this area. The background readings obtained for these surveys were 3,298 and 2,237 cpm.

Neither VSP samples nor surficial-soil samples were collected for IHSS 190.

3.9.2 Soil-Gas Survey

In accordance with the OU13 RFI/RI Work Plan (DOE 1992a), soil-gas samples were not collected from within IHSS 190.

3.9.3 Adjacent and Overlapping IHSSs

IHSS 190 overlaps with IHSS 172 of OU8, an OU9 pipeline, OU10 IHSS 129, and OU14 IHSS 162 (Plate 1). IHSS 172 is the Central Avenue Waste Spill that was contaminated by a leaking drum as it was being transported from the 903 Pad to Building 771. The drum contained carbon tetrachloride, percholoroethylene, uranium, and plutonium. OU10 IHSS 129, an underground storage tank, contained fuel oil, number 2 diesel, wastewater and compressor oil, solvent, and trace amounts of 1,1,1-TCA. IHSS 162 of OU14 is a radioactive site of an unknown source. No additional sampling was recommended in the IFSP (EG&G 1994c) to evaluate these overlapping IHSSs.

4.0 STATISTICAL ASSESSMENT OF SURFACE-SOIL DATA

The following sections explain the statistical methods used for data screening and the assessment of whether IHSSs show evidence of contamination and the hazardous constituents that create this contamination.

Although the sampling design and the number of samples for OU13 were intended to determine with a 95 percent confidence whether at least one quarter of an individual IHSS was contaminated at a concentration in excess of the PRGs or background, it is possible to analyze the data collected to determine the sufficiency of the sampling effort to characterize the IHSS. It is important to note that the original statistical design was not intended to sufficiently characterize the entire IHSS and that additional sampling was always planned. The test selected to evaluate the sufficiency of the number of samples collected is the prespecified relative error test (Gilbert 1987). This test is designed for normally distributed data sets and few of the OU13 IHSS data sets are normally distributed or, indeed, even lognormally distributed. However, the results of the test can be used as an indicator of the sufficiency of the sampling effort to meet specific goals.

4.1 DATA SCREENING

The OU13 RFI/RI Work Plan (DOE 1992a) bases the number of surface-soil samples to be collected on the hypothesis that it is necessary to have a 95 percent probability of finding one contaminated sample in an IHSS that has 25 percent of its area contaminated. An underlying assumption is that the samples are independent of one another. The formula used in this calculation is the following:

$$P=1-(1-f)^n$$

where P is the probability of success, f is the fraction of the site contaminated, and n is the number of independent samples. Solving the equation for n and substituting a probability of 95 percent confidence and the area contaminated at 25 percent requires that 11 samples be collected for each IHSS. Subsequently, 11 samples were collected for each IHSS in OU13 with the exceptions of IHSS 117.1 (10 samples), IHSS 128 (one sample), IHSS 134(N) (three samples), IHSS 171 (five samples), and IHSS 197 (four samples), because they overlap with other IHSSs. If overlap occurs, 11 samples were collected within the IHSS group. At these sites, concrete or asphalt pavement prevented more independent samples from being collected and also interfered with the random distribution of sample collection. In addition, several of these IHSSs are collocated, and the total number of samples in the area meets or exceeds the target of 11 samples.

This screening method provides that *any measurement* in excess of background or PRGs is an indication of contamination. As discussed earlier, it is important to note that arsenic is present in concentrations in excess of the PRGs in seven of the 12 OU13 IHSSs sampled, but it is never present in concentrations in excess of background. Therefore, although arsenic has been listed as an exceedance of PRG, it is naturally occurring.

4.2 PARAMETRIC STATISTICAL ANALYSES

The evaluation of the sufficiency of the sampling effort to determine whether the mean concentration of the sample population is within a specified limit of the actual population mean is accomplished by calculating the number of samples needed to meet a prespecified relative error with a desired degree of confidence. This evaluation is accomplished via the following formula (Gilbert 1987):

$$n = \left(\frac{Z_{1-\alpha/2}\eta}{d_r} \right)^2$$

where:

n = number of samples required;

$Z_{1-\alpha/2}$ = standard deviate from a normal population at a specified confidence (α);

η = coefficient of variation (σ/μ)—σ is the standard deviation and μ is the population mean; and

d_r = relative error ($|\bar{x}-\mu|/\mu$)

For the purpose of this evaluation, the following conditions were examined: 90 and 95 percent confidence that the sample mean did not deviate from the IHSS population mean by more than 20, 30, or 50 percent. Each of the evaluation tables in the following sections contain the calculated number of samples required and a comparison to the number of samples collected.

The screening of the sampling data was accomplished through a series of processes:

1. Only those constituents that were present in concentrations exceeding their background $UTL_{99/99}$ or PRGs were evaluated. Arsenic is the only constituent for which the PRG was controlling.

2. The higher concentrations from duplicates were used in the statistical analysis.

3. For contaminants with fewer than 15 percent nondetects, one half of the detection limit was substituted. No analysis was conducted on constituents with greater than 15 percent nondetects.

4. Estimated concentrations—qualified "J"—were given the same weight as nonqualified data.

5. Rejected data—qualified "R"—were not used.

4.2.1 IHSS Group 117.1 and 197 - North Chemical Storage Site and Scrap Metal Sites - 500 Area

Fourteen surface-soil samples were collected within the confines of IHSSs 117.1 and 197. Table 4-1 contains the results of the sufficiency testing for this area. Coefficients of variation (η) in excess of 1 are usually considered an indication that the data are not normally distributed. Further evaluation using the Shapiro-Wilk test statistic supported this observation. Thus, the evaluation of sampling sufficiency can only be used as an indicator of sufficiency for the non-normally distributed constituents.

Arsenic and selenium were sufficiently sampled to demonstrate that there is a 95 percent confidence that the difference between the sample population mean and the mean concentration within these IHSSs is less than or equal to 20 percent of the total population mean. The number of lead samples collected was sufficient to provide a 95 percent confidence that the difference between the sample and total population means are less than 30 percent and the zinc samples provide a 90 percent confidence of the same difference. Copper has been sampled sufficiently to provide a 90 percent confidence that the differences in the sample population mean and the mean concentration within these IHSSs are less than or equal to 50 percent of the total population mean. The number of silver and Pu-239/240 samples is sufficient to provide a 95 percent confidence that the difference between the sample mean and the total IHSS population mean is within 85 percent of the population mean.

The initial sampling effort has only been sufficient to characterize the entire area of this IHSS group for two constituents. However, because the maximum measured concentrations are at least an order of magnitude less than the PRGs, and based on the assumption that the area sampled is homogenous, it is unlikely that the planned further sampling to determine the three-dimensional distribution of contaminants will encounter surface concentrations in excess of the PRGs. These data, in combination with an evaluation of historical use, currently existing data from other sources or reports, and professional judgment, would indicate that extensive additional surface-soil sampling is not justified.

4.2.2 IHSS Group 117.2, 158, and 169 - Middle Chemical Storage Site, Building 551 Radioactive Site, and Waste Peroxide Drum Burial

Eleven surface-soil samples were collected in IHSSs 117.2 and 158 and no samples were collected in IHSS 169. The sufficiency statistics tests are summarized in Tables 4-2 and 4-3 for IHSSs 117.2 and 158, respectively.

Arsenic was sufficiently sampled to demonstrate that there is a 95 percent confidence that the difference between the sample population mean and the mean concentration within these IHSSs is less than or equal to 20 percent of the total population mean. The Ra-226 data indicate that similar conclusions can be drawn about the sufficiency of its sampling. However, because there were only two samples collected for Ra-226 analyses, the fact that the measured activities were relatively close together may be chance and not an artifact of the activity range of the sample population. This observation points out the weakness of applying statistical methods to a very small (n = 2) sample population. Cobalt has been sampled sufficiently to provide a 90 percent confidence that the sample population mean lies within 20 percent of the population mean and nickel and chromium provide a 95 percent confidence that the difference between the sample and population means is 30 percent. The 11 lead samples indicate that the difference between the

sample and population means is 30 percent (90 percent confidence). The data for Pu-239/240 provide a 95 percent confidence that the difference between the sample and population means is 50 percent. Zinc and Am-241 provide a 90 percent confidence that the measured mean concentration is within 50 percent of the mean concentration for IHSS 117.2.

Only three of the 11 samples collected within IHSS 158 contained detectable beryllium and nickel, so no attempt was made to evaluate their sufficiency. The samples analyzed for U-233/234 and U-238 were sufficient to provide a 95 percent confidence that the difference between the sample and population mean is less than 20 and 30 percent, respectively. The samples analyzed for cobalt, lead, and U-235 were sufficient to provide a 95 percent confidence that the difference between the sample and population mean is less than 50 percent. For the remaining analytes—calcium, chromium, copper, zinc, and Pu-239/240—the distributions are non-normal and the estimation of sufficiency is less than a 90 percent confidence that the difference in the means is less than 50 percent.

4.2.3 IHSS 186 - Valve Vault 12

Samples collected from IHSS 186 were analyzed for the target radionuclide suite. Four radionuclides were measured in activities in excess of their respective backgrounds: Am-241, gross beta, Pu-239/240, and U-238 (Table 4-4). Sufficient samples were collected to provide a 95 percent confidence that the difference between the sample and population means is less than 20 percent. The analyses of gross beta and Pu-239/240 provide a 95 percent confidence that the mean concentration of the sample population and the IHSS population are within 100 percent of the value of the IHSS population mean. The large difference calculated for these last two constituents reflects the non-normality of the current sample data set.

4.2.4 IHSS Group 128, 134(N & S), and 171 - Oil Burn Pit No. 1 Waste Leak, Solvent Burning Ground, and Lithium Metal Destruction Site

Of the nine samples collected within IHSSs 128, 134N, and 171, one (IHSS 134N) was analyzed for the modified TAL metals and the remainder were analyzed for the target radionuclides (Table 4-5). Therefore, only the radionuclides with activities in excess of their respective backgrounds were tested for sufficiency of sampling. Sufficient samples were analyzed for Pu-239/240 to provide a 90 percent confidence that the difference between the sample mean and the total population mean is no greater than 30 percent and that the difference for Am-241 is no more than 50 percent.

Eleven samples were collected from IHSS 134S and analyzed for target radionuclides. Five of the radionuclides (Am-241, gross beta, Pu-239/240, U-233/234, and U-238) were measured with activities in excess of their respective backgrounds and were tested for sufficiency of the sampling design (Table 4-6). The gross beta and U-238 samples were sufficient to provide a 95 percent confidence that the differences in the means is less than 20 percent. Sampling for U-233/234 provided a 90 percent confidence that the difference in the sample population mean and total population mean is no greater than 20 percent. Sampling for Am-241 and Pu-239/240 indicate that the difference between the sample and total population means are no greater than 50 percent with a 95 and 90 percent confidence, respectively.

4.2.5 IHSS 148 - Waste Spills

The 11 surface-soil samples analyzed from this IHSS contained eight metals (arsenic, chromium, cobalt, copper, lead, nickel, strontium, and zinc) and four radionuclides (Am-241, Pu-239/240, U-233/234, and U-238) in excess of their respective background or PRG concentrations and activities. The sufficiency evaluation is summarized in Table 4-7. Arsenic, U-233/234, and U-

238 had sufficient samples to provide a 95 percent confidence that the differences between the sample and total population means are less than 20 percent. Chromium, cobalt, lead, nickel, Am-241, and Pu-239/240 sampling was sufficient to provide a 95 percent confidence that the differences in the respective means were less than 30 percent, and strontium sampling provides a 90 percent confidence in the same difference. A sufficient number of copper samples was collected to provide a 95 percent confidence that the difference in the sample and total population means was less than 50 percent. The zinc samples were able to provide a 95 percent confidence that the difference in the means was less than 80 percent.

There are two reasons why collecting additional samples in order to increase the confidence in the estimation and to further constrain the differences in the means is not justified. The maximum measured concentrations are seldom as much as one-tenth of the PRGs and thus are well below concentrations that would require remediation. Also, the statistical test being conducted on the data is designed for normally distributed data and many of the constituents are not normally distributed and, thus, the test statistic is only an indication of sufficiency.

4.2.6 IHSS Group 157.1 and 191 - North Area Radioactive Tank and Hydrogen Peroxide Spill

Eleven samples were collected from IHSS 157.1. The samples were analyzed for SVOCs, the modified TAL metals list, and target radionuclides. The results of sufficiency testing are summarized in Table 4-8. Of the five SVOCs—all PAHs—only one (dibenzo(a,h)anthracene) had a measured concentration population that was close to being normally distributed and the results of those samples indicate that there were a sufficient number of samples collected to provide a 90 percent confidence of the difference in the means being less than 50 percent. The remainder of the PAHs—benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and

indeno(1,2,3-cd)pyrene—were sampled sufficiently for a 95 percent confidence that the differences in the means are less than 80 percent.

Four metals were present in concentrations in excess of their respective background or PRGs—arsenic, copper, lead, and zinc. Sufficient samples were collected for arsenic and zinc to provide a 95 percent confidence that the difference in the respective means were less than 20 percent. There is a 90 percent confidence that the difference between the mean lead concentration of the sample population and the mean concentration of the total population in less than 50 percent. Within this IHSS, copper concentrations do not appear to be normally distributed and the estimate of the sampling sufficiency is that there is a 90 percent confidence that the difference in the sample and population means is less than 60 percent.

Four of the radionuclides (Am-241, Pu-239/240, U-233/234, and U-238) were measured with activities in excess of their respective backgrounds and were tested for sufficiency of the sampling design (Table 4-8). The U-233/234 activity measurements were sufficient to provide a 90 percent confidence that the difference between the sample mean and the total population mean is 20 percent or less. The U-238 data are sufficient to provide a 90 percent confidence that the difference in the means is less than 30 percent. Finally, the Am-241 and Pu-239/240 data are sufficient to provide a 95 percent confidence that the differences between the mean activities of the sample populations and the total populations within the IHSS are less than 50 percent.

4.2.7 IHSS Group 117.3 and 152 - South Chemical Storage Site and Fuel-Oil Tank

There were no surface-soil samples collected at IHSS 152. Table 4-9 contains the sufficiency evaluation for the samples collected within IHSS 117.3. Five metals (arsenic, cobalt, lead, selenium, and zinc) were measured in concentrations in excess of their background or PRG

concentrations. In addition, three radionuclides had elevated activities: Pu-239/240, U-233/234, and U-238. Arsenic, selenium, U-233/234, and U-238 were all sampled sufficiently to provide a 90 percent confidence that the differences between the sample means and the total population means are 20 percent or less. Lead and Pu-239/240 samples provide a 90 percent confidence that the differences in the mean activities of the sample populations and the total populations within the IHSS are less than 30 percent. The final two constituents, cobalt and zinc, have non-normal distributions and the sufficiency statistic indicates that, with a 90 percent confidence, the estimated differences in sample and total population means are less than 60 percent.

4.2.8 IHSS 190 - Caustic Leak

No surface-soil samples were collected within IHSS 190.

4.3 DATA ASSESSMENT CONCLUSIONS

The following sections discuss the findings of the initial sampling of surface soils at OU13 IHSSs. The samples collected were analyzed for the full RFETS radionuclide suite and most of the samples were analyzed for the amended TAL metals plus lithium and magnesium. Samples from three IHSSs were analyzed for VOCs (IHSSs 117.1, 134N, and 197) and those from one IHSS (157.1) were analyzed for SVOCs. The analyte lists were based on the historical use of the facilities within the various IHSSs.

Table 4-10 is a listing of the constituents exceeding either PRGs or background by IHSS number.

4.3.1 IHSS Group 117.1 and 197 - North Chemical Storage Site and Scrap Metal Sites - 500 Area

Ten surface-soil samples were collected within IHSS 117.1 and an additional four and one duplicate within IHSS 197. The IHSS 117.1 samples were analyzed for the TAL metals plus lithium, molybdenum, and strontium; the VOCs; and the total activities for the RFETS radionuclide target list. Five constituents were present in concentrations in excess of background in at least one sample. Those constituents are copper, lead, mercury, selenium, and zinc. Copper is present in concentrations in excess of background in four of the 10 samples. However, all of the measured copper concentrations are less than the PRG of 11,000 mg/kg. The lead concentration was elevated above background in one sample (SS3310293: 75.9 mg/kg). A different sample, SS309393, contained mercury at the background concentration (0.2 mg/kg), which coincides with the MDL. One sample (SS309493) of the four analyzed for selenium contained a concentration equal to the background concentration (1.40 mg/kg), but three orders of magnitude less than the PRG of 1,370 mg/kg. Silver was measured in one sample (SS309193) at a concentration of 10.1 mg/kg, which is in excess of the background concentration of 10.0 mg/kg but significantly less than the PRG of 1,370 mg/kg. Zinc was found to be present in concentrations in excess of background in six of the 10 samples analyzed, but all zinc values are less than established PRGs.

The IHSS 197 samples had three constituents that exceeded background concentrations: copper, silver, and zinc. Copper and silver were present at Location SS309993 in concentrations in excess of their respective background concentrations of 27.3 and 10.0 mg/kg but below their established PRGs. Two other sample locations (SS309693 and SS309793) contained zinc in excess of the background concentration of 86.6 mg/kg, but less than the established PRG.

Among the radionuclide measurements, two samples (SS309293 and SS310293) contained Pu-239/240 activities in excess of the background of 0.1312 pCi/g at 0.43 and 0.16 pCi/g, respectively. These activities are less than the Pu-239/240 PRG of 3.42 pCi/g.

4.3.2 IHSS Group 117.2, 158, and 169 - Middle Chemical Storage Site, Building 551 Radioactive Site, and Waste Peroxide Drum Burial

A total of 11 surface-soil samples and one duplicate were collected within the area of IHSS Group 117.2. These samples were analyzed for the TAL metals plus cesium, lithium, molybdenum, and strontium and the total activities for the RFETS radionuclide target list. Five metallic constituents exceeded background concentrations in one or more of these samples. Those constituents are chromium, lead, nickel, and zinc. Chromium was present at one sample location (SS306493) in excess of the background (24.8 mg/kg) but less than the PRG (962 mg/kg). This same sample contained a nickel concentration in excess of background (28 vs 26.9 mg/kg). The lead concentration at a different sample location (SS306193) was 62.8 mg/kg, which is slightly in excess of the background concentration of 61.4 mg/kg. There is no PRG for lead. Six of the 11 soil samples contained zinc in the range of 144 to 497 mg/kg. These concentrations are in excess of the background (86.6 mg/kg) but much lower than the PRG of 8,230 mg/kg.

Three radionuclides were detected in surface-soil samples from IHSS 117.2: Am-241, Pu-239/240, and Ra-226. Five samples contained excess Am-241 with activities in the range of 0.067 to 0.169 pCi/g versus a background of 0.0634 pCi/g and a PRG of 2.37 pCi/g. Two samples contained Pu-239/240 in the range of 0.177 to 0.225 pCi/g compared to the background of 0.1321 pCi/g and the PRG of 3.42 pCi/g. One sample (SS300293) of the two analyzed contained Ra-226 in excess of the background (1.587 pCi/g) at 1.775 pCi/g, but less than the PRG of 2.28 pCi/g.

Eleven samples and one duplicate were collected from the area of IHSS 158. These samples were analyzed for the TAL metals plus cesium, lithium, molybdenum, and strontium and the total activities for the RFETS radionuclide target list. Seven metallic constituents exceeded background concentrations in one or more of these samples. Those constituents are arsenic, calcium, chromium, cobalt, copper, lead, nickel, and zinc. One sample location (SS303993) contained calcium, chromium, cobalt, and zinc concentrations in excess of their respective background concentrations but below the PRGs. Two locations, SS304493 and SS304593, contained copper in excess of the 27.3 mg/kg background concentrations but below the PRG of 11,000 mg/kg. Five of the locations contained zinc concentrations in excess of the background concentration of 86.6 mg/kg, but less than the established PRG.

Five radionuclides were detected in surface-soil samples from IHSS 158: Am-241, Pu-239/240, U-233/234, U-235, and U-238. Four samples contained excess Am-241 with activities in the range of 0.077 to 0.254 pCi/g, above the background of 0.0634 pCi/g but below the PRG of 2.37 pCi/g. Four samples contained Pu-239/240 in the range of 0.139 to 0.642 pCi/g, greater than the background of 0.1321 pCi/g, but less than the PRG of 3.42 pCi/g. One sample (SS300293) of the two analyzed contained U-233/234 in excess of the background (1.769 pCi/g) at 1.846 pCi/g, but less than the PRG of 44.7 pCi/g. One other sample, SS304393, had a measured activity for U-235 of 0.372 pCi/g, which is in excess of background (0.1983 pCi/g) and the PRG (0.173 pCi/g). Sample SS304193 contained U-238 (4.132 pCi/g) in excess of background but less than the established PRG. The background and PRG for U-238 are 1.912 and 0.8 pCi/g, respectively.

Because hydrogen peroxide (H_2O_2) very quickly degrades to oxygen (O_2) and water (H_2O) in the near surface environment, and because IHSS 169 is a reported waste peroxide drum burial area, no samples were collected.

The initial sampling design indicates that at least 25 percent of the area of the IHSSs contain metals and radionuclides described above at levels above reference concentrations. It may be necessary to collect additional surface-soil samples in a quantity sufficient to establish the validity of a parametric statistical test. Analytes for these additional samples would include metals and radionuclides detected above reference concentrations during the Stage 1 surface-soil investigation. These analytically determined values will be compared to appropriate PRGs and any exceedances noted. Further comparisons will be made following the precepts outlined in Section 4.2.

4.3.3 IHSS 186 - Valve Vault 12

A total of 11 surface-soil samples and one duplicate sample were collected from IHSS 186. All of these samples were analyzed for the target radionuclides and four were present in activities exceeding background: Am-241, gross beta, Pu-239/240, and U-238. Only one of the samples did not contain excess Am 241: SS305193. The range of Am-241 activities is 0.076 to 1.464 pCi/g with a background of 0.0634 pCi/g and a PRG of 2.37 pCi/g. The gross beta activity was in excess of background (55.35 pCi/g) in two samples: SS305193 (57.55 pCi/g) and SS305393 (58.25 pCi/g). There is no gross beta PRG. Eight of the 11 samples contained excess Pu-239/240. The range of activities is 0.226 to 7.663 pCi/g versus a background of 0.1321 pCi/g and the PRG of 3.42 pCi/g. Five of 11 samples contained excess U-238 (range 1.973 to 3.53 pCi/g). The background and PRG for U-238 are 1.912 and 46.0 pCi/g, respectively.

The initial sampling design indicates that at least 25 percent of the area of the IHSSs contain metals and radionuclides described above at levels above reference concentrations. It may be necessary to collect additional surface-soil samples in a quantity sufficient to establish the validity of a parametric statistical test. Analytes for these additional samples would include metals and radionuclides detected above reference concentrations during the Stage 1 surface-soil

investigation. These analytically determined values will be compared to appropriate PRGs and any exceedances noted. Further comparisons will be made following the precepts outlined in Section 4.2.

4.3.4 IHSS Group 128, 134, and 171 - Oil Burn Pit No. 1 Waste Leak, Solvent Burning Ground, and Lithium Metal Destruction Site

Because the area of Oil Burn Pit No. 1 (IHSS 128) is co-located with IHSS 134N and both are covered by the road bed and road surface of Sage Avenue, only one surface-soil sample was taken. The sample was collected by coring a hole through the asphalt road surface and boring down through the roadbed fill. This sample was analyzed for the total target radionuclide activities and the concentrations of lithium and magnesium. None of the measured concentrations or activities exceeded the PRG or background concentrations.

Three samples were collected from the magnesium metal disposal site (IHSS 134N) away from the roadbed of Sage Avenue. All three samples were analyzed for magnesium and lithium, two of the three were analyzed for their radionuclide activities, and the third was analyzed for the TAL metals. Two of the sample locations had magnesium concentrations in excess of its background concentration of 7,012 mg/kg: SS302193 measured 8,020 mg/kg and SS310393 measured 18,400 mg/kg. (Magnesium has no established PRG.) In addition, the latter sample had concentrations of the following metals in excess of their respective background concentrations (measurement-mg/kg/background-mg/kg) but less than PRGs (for those chemicals with a PRG): calcium (18,100/13,573), copper (72/27.3), iron (31,700/28,160), nickel (30.3/26.9), sodium (2,850/1,108), and strontium (413/90.1).

Americium-241 and Pu-239/240 both exceeded background activities in the IHSS 134 N samples. The activity of Am-241 exceeded background (0.0634 pCi/g) in both samples analyzed from this

IHSS. Americium-241 activities ranged from 0.066 to 0.202 pCi/g. The PRG is 2.37 pCi/g. One sample (SS302093) contained Pu-239/240 at an activity level of 0.183 pCi/g, which is less than background.

Eleven samples and one duplicate were collected from the lithium metal disposal area of IHSS 134S. All were analyzed for lithium plus the target radionuclides. Five radionuclides were present in activities in excess of background within IHSS 134S: Am-241, gross beta, Pu-239/240, U-233/234, and U-238. Four of 11 samples exceeded the Am-241 background (0.0634 pCi/g) with a range from 0.065 to 0.116 pCi/g but was less than the PRG of 2.37 pCi/g. Two samples contain gross beta activities in excess of the background value of 44.56 pCi/g: SS302693 (58.06 pCi/g) and SS303593 (59.17 pCi/g). Five of 11 samples contained Pu-239/240 with a range from 0.135 to 0.465 pCi/g, exceeding the background of 0.1312 pCi/g, but less than the PRG of 3.42 pCi/g. Four samples exceeded the U-233/234 background (1.769 pCi/g) with a range from 1.785 to 3.5 pCi/g, but were less than the PRG of 44.7 pCi/g. Three of the samples exceeded the background for U-238 (1.912 pCi/g). The range for these samples is from 1.945 to 2.894 pCi/g. All of these values are an order of magnitude less than the PRG of 46.0 pCi/g.

Five samples were collected from the area of IHSS 171, the solvent burning ground. The samples were analyzed for the target radionuclides. One sample (SS302493) exceeded the background for both Am-241 (0.0634 pCi/g) and Pu-239/240 (0.1321 pCi/g) but were less than the PRGs. The measured activities are 0.121 and 0.135 pCi/g, respectively.

Three surface-soil samples were collected from areas within OU13 IHSSs that were not associated with an identified IHSS but were located between 134N and 134S. One of these sample locations (SS301493) contained magnesium in concentrations exceeding the background value of 7,011 mg/kg. Two radionuclides, Am-241 and Pu-239/240, were present in the non-

IHSS samples. All three samples contained Pu-239/240 in excess of the background activity of 0.1321 pCi/g (range 0.136 to 1.744 pCi/g). Two of the samples exceeded the Am-241 background (0.0634 pCi/g) but were less than the PRG. Samples SS301493 and SS301693 had activities of 0.291 and 0.252 pCi/g, respectively.

The initial sampling design indicates that at least 25 percent of the area of the IHSSs contain metals and radionuclides described above at levels above reference concentrations. For this evaluation, however, one metal, arsenic, is not considered. (See Section 3.1.) It may be necessary to collect additional surface-soil samples in a quantity sufficient to establish the validity of a parametric statistical test. Analytes for these additional samples would include metals and radionuclides detected above reference concentrations during the Stage 1 surface-soil investigation.

4.3.5 IHSS 148 - Waste Spills

Eleven samples and one duplicate sample were collected within the area of IHSS 148. These samples were analyzed for the TAL metals plus cesium, lithium, molybdenum, and strontium and the total activities for the RFETS radionuclide target list. Five metallic constituents exceeded background concentrations. Those constituents were chromium, cobalt, copper, lead, nickel, and zinc. Chromium was present in concentrations in excess of background, but less than the PRG at seven of the 11 sample locations, with a range from 33.8 to 95.6 mg/kg. Cobalt was present at location SS306793 slightly in excess of the background concentration of 24.8 mg/kg (28.7 mg/kg). (Cobalt has no PRG.) Three of the 11 copper concentrations exceeded background, but were less than the PRG. Six of the sample locations exceeded the background concentration of lead, which has no PRG. Two sample locations exceeded the nickel background concentration but were less than the PRG. Six locations had zinc present in excess of background but less than the PRG.

Four radionuclides were detected in surface soil samples from IHSS 158: Am-241, Pu-239/240, U-233/234, and U-238. Five samples contained excess Am-241 with activities in the range from 0.092 to 0.197 pCi/g versus a background of 0.0634 pCi/g and a PRG of 2.37 pCi/g. Three samples contained Pu-239/240 in the range from 0.152 to 0.169 pCi/g compared to the background of 0.1321 pCi/g and the PRG of 3.42 pCi/g. Four samples contained U-233/234 in excess of the background (1.769 pCi/g) with the range from 1.769 to 2.04 pCi/g, but less than the PRG of 44.7 pCi/g. One sample contained excess U-238 (2.14 pCi/g). The background and PRG for U-238 are 1.912 and 46.0 pCi/g, respectively.

The initial sampling design indicates that at least 25 percent of the area of the IHSSs contain metals and radionuclides described above at levels above reference concentrations. It may be necessary to collect additional surface-soil samples in a quantity sufficient to establish the validity of a parametric statistical test. Analytes for these additional samples would include metals and radionuclides detected above reference concentrations during the Stage 1 surface-soil investigation.

4.3.6 IHSS Group 157.1 and 191 - North Area Radioactive Tank and Hydrogen Peroxide Spill

A total of 11 surface-soil samples and two duplicates were collected within the area of IHSS 157.1. These samples were analyzed for the TAL metals plus cesium, lithium, molybdenum, and strontium; SVOCs; and total activities for the RFETS radionuclide target list. Three metallic constituents exceeded background concentrations in one or more of these samples. Those constituents are copper, lead, and zinc. Copper was present at 143 mg/kg at sample location SS300393, which exceeds the background concentration but is less than the PRG. Lead, with no PRG, exceeded the background at two locations (SS300493 and SS301193). Zinc exceeded the background at two other locations (SS300993 and SS301293), but not the PRG.

Five SVOCs exceed the PRGs: benzo(a)anthrancene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Of the nine samples analyzed for SVOCs, PRGs were exceeded in eight by benzo(a)pyrene, three by benzo(b)fluoranthene and dibenzo(a,h)anthracene, and two contained other compounds.

Four radionuclides were detected in surface-soil samples from IHSS 157.1: Am-241, Pu-239/240, U-233/234, and U-238. Two samples contained excess Am-241 with activities in the range from 0.067 to 0.081 pCi/g, exceeding the background of 0.0634 pCi/g but not exceeding the PRG of 2.37 pCi/g. One sample (SS300493) contained Pu-239/240 at 0.195 pCi/g, which exceeds the background of 0.1321 pCi/g, but not the PRG of 3.42 pCi/g. Four samples contained U-233/234 in excess of background with the range from 1.98 to 3.242 pCi/g, but less than the PRG of 44.7 pCi/g. Three samples contained excess U-238 (range 3.975 to 5.265 pCi/g). The background and PRG for U-238 are 1.912 and 46.0 pCi/g, respectively.

Based on the data presented above, it may be necessary to collect additional surface-soil samples. Analytes for these additional samples would include those metals, organics, and radionuclides detected above reference concentrations during the Stage 1 surface-soil investigation.

4.3.7 IHSS Group 117.3 and 152 - South Chemical Storage Site and Fuel-Oil Tank

Eleven surface-soil samples and one duplicate were collected within the area of IHSS Group 117.3. These samples were analyzed for the TAL metals plus cesium, lithium, molybdenum, and strontium and the total activities for the RFETS radionuclide target list. Four metallic constituents exceeded background concentrations in one or more of these samples. Those constituents are cobalt, lead, selenium, and zinc. Cobalt was present at one sample location (SS308893) at a concentration of 53.5 mg/kg, which is in excess of the background concentration of 24.8 mg/kg. There is no PRG for cobalt. Two of the 11 samples contained

lead concentrations in excess of the background concentration of 61.4 mg/kg: SS308193 measured 90.6 mg/kg and SS308493 measured 78.5 mg/kg. (Lead has no PRG.) One sample location (SS308593) had a selenium concentration slightly in excess of the background concentration of 1.40 mg/kg at 1.50 mg/kg. The zinc concentrations exceeded background (86.6 mg/kg) in seven of the 11 samples collected. The range of zinc concentrations in these seven samples was from 126 to 1580 mg/kg—all less than the PRG of 8230 mg/kg.

Three radionuclides were detected in surface-soil samples from IHSS 117.3: Pu-239/240, U-233/234, and U-238. Four samples contained Pu-239/240 in the range of 0.169 to 0.385 pCi/g compared to the background of 0.1321 pCi/g and the PRG of 3.42 pCi/g. Two samples contained U-233/234 in excess of the background (1.769 pCi/g) with the range from 2.087 to 2.261 pCi/g, but less than the PRG of 44.7 pCi/g. One sample contained concentrations of U-238 (SS308893) at greater than the background but less than its PRG.

The initial sampling design indicates that at least 25 percent of the area of the IHSSs contain metals and radionuclides described above at levels above reference concentrations. It may be necessary to collect additional surface-soil samples in a quantity sufficient to establish the validity of a parametric statistical test. Analytes for these additional samples would include metals and radionuclides detected above reference concentrations during the Stage I surface-soil investigation.

No surface-soil samples were collected within the area of IHSS 152.

4.3.8 IHSS 190 - Caustic Leak

No surface-soil samples were collected in the vicinity of this reported leak of sodium hydroxide.

5.0 PRELIMINARY EVALUATION OF NATURE AND EXTENT OF CONTAMINATION

This section uses the surface-soil and soil-gas data to generate a preliminary evaluation of the nature and extent of contamination at each IHSS or IHSS group. Factors affecting the fate and transport of hazardous constituents in the environment are first introduced and discussed in general terms. The type of contaminants and apparent migration pathways at each site are then used to characterize the nature and extent of contamination. This information is then used to make recommendations for further investigation.

5.1 MECHANISMS OF CHEMICAL FATE AND TRANSPORT

An evaluation of the fate and transport of the chemicals detected at a specified IHSS aids in predicting potential exposure pathways and helps link sources with contaminated media. When a chemical is released to the environment, the chemical fate may be one of the following:

- transport (e.g., surface-water or groundwater flow as dissolved species or adsorbed on suspended sediment, and/or adsorbed on airborne particulates migrating through the atmosphere);
- physical transformation (e.g., evaporation, adsorption, or precipitation);
- chemical transformation (e.g., photolysis, hydrolysis, oxidation, or reduction);
- biological transformation (e.g., biodegradation); and/or
- accumulation in environmental media via various chemical and physical mechanisms.

The mineralogical and chemical characteristics of the IHSS environment and the physiochemical characteristics of the specific constituents control the chemical fate and transport of individual constituents of concern. Soil characteristics such as mineralogy, particle size, moisture content, organic carbon content, and cation exchange capacity greatly influence chemical migration. Other site characteristics that are considered in the characterization of the physical setting and discussed in the OU13 RFI/RI Work Plan (DOE 1992a) are as follows:

- climate (e.g., temperature and precipitation);
- meteorology (e.g., wind speed and direction);
- geologic setting (e.g., location and characterization of underlying strata);
- vegetation (e.g., unvegetated, forested, grassy);
- soil type (e.g., sandy, clayey, organic, acid, basic);
- groundwater hydrology (e.g., depth, direction, and flow regime); and
- surface water hydrology (e.g., type, flow rates, and chemistry).

The OU13 investigation did not collect surface soil samples for physical characterization. Because the soil types and fill materials are the same throughout the Industrial Area, data collected during the OU10 investigation will be used in this investigation. The specific gravity, percent moisture, bulk density, TOC, and pH are used to qualitatively describe the potential for contaminant transport through subsurface media. In addition, these properties are used in estimating various transport coefficients for contaminants in saturated and unsaturated media. Representative soil type samples from OU10 were analyzed for the following:

Soil Moisture Content. Soil moisture content is expressed as a ratio (percent) of mass of water present in the sample to a mass of sample after it has been dried at 105° C. The soil moisture content controls the mass of a constituent of concern that can be dissolved in vadose zone fluids.

Grain-Size Distribution. Grain-size distribution, also referred to as particle-size distribution, is a proportional measurement of various sizes of primary soil particles. The mineralogy of the various size fractions control the soil-moisture interactions. Constituents of concern can be concentrated in specific size fractions, which can aid in remediation.

Soil Bulk Density. Soil bulk density is the ratio of the mass of oven-dried solids to a bulk volume of solids plus pore space. The measurement of bulk density allows one to estimate the volume available for soil gas and pore fluids and aids in the prediction of mass transport through the soil column.

The specific gravity of most soils is approximately 2.65 because of the density of quartz and feldspar, common soil minerals. The average specific gravity for peat-rich soils is much lower—organic material is porous and carbonaceous compounds are less dense. The bulk density of most soils ranges from 1.0 gm cm^{-3} for clays to 1.8 gm cm^{-3} for sands (Carter 1993). Because Rocky Flats is located very near the Front Range of the central Rocky Mountains, the native surface soil is alluvium that varies greatly in grain size and sand or clay content. Often the surface material at the RFETS Industrial Area was fill instead of native soil. Fill material typically exhibits a more even grain size and a lower clay content.

The OU10 surface-soil samples were characterized for specific gravity by American Society for Testing and Materials (ASTM) Method D854, texture by ASTM Method D422, percent moisture by ASTM Method D2216 (ASTM 1992), and bulk density by the Clod Method (Black 1965). Additionally, four surface-soil samples at each OU10 IHSS were chosen for analysis of TOC and pH (EG&G 1995b).

Soil matrix texture was classified using ASTM Method D422. The soil matrix with particles greater than 2 millimeters (mm) in diameter ranges from a sand or loamy sand to a sandy clayey

loam or loam. An overall average of 74 percent sand was estimated for the OU10 IHSSs (EG&G 1995b).

Soil pH influences chemical speciation reactions, species oxidation-reduction, ligand exchange, chemical precipitation, and adsorption on soil matrix. These mechanisms are dependent on the contaminant or mixture of contaminants present and the moisture content of the soil. The results of TOC analyses provide the organic content of the soil. The organic content of the soil influences chemical accumulation of the soil through adsorption and chemical reduction and reduces the movement of susceptible chemicals.

Chemical persistence in the environment is influenced by various physical, chemical, and biological processes that can affect the chemical or transform it as it moves through air, soil, or water systems. These processes include photolysis, hydrolysis, volatilization, adsorption, bioaccumulation, and biotransformation or biodegradation. As discussed in Section 3.0, contaminants found at OU13 IHSSs are primarily PAHs, VOCs, metals, and radionuclides. The following paragraphs provide chemical-specific information related to contaminant fate and transport. The information was obtained from chemical-specific toxicological profiles available from the Agency for Toxic Substances and Disease Registry (ATSDR) (1990) and other resources.

5.1.1 Polynuclear Aromatic Hydrocarbons

PAHs are a class of compounds consisting of substituted and unsubstituted polycyclic aromatic rings commonly formed by the incomplete combustion of coal, oil, garbage, or other organic materials. PAHs occur in crude oil, coal, coal-tar, and road and roofing tars. Their chemical, physical, and biological properties vary with their molecular weight and structure. Solubility generally decreases with increasing molecular weight. Less soluble PAHs remain in the soil and are not readily flushed out by infiltrating water.

Adsorption on organic material in soil, as well as prolonged residence as a complex free phase, is a common fate for the PAHs. Adsorption can impede the migration of PAHs to groundwater, particularly in soils with high organic content. The degree of adsorption will depend on the amount of organic matter in the specific medium and the particular PAH's affinity to organic matter. Atmospheric transport of PAHs may occur by adsorption onto particulate matter that becomes airborne. Biodegradation is probably the ultimate fate of PAHs in soil.

PAHs are quickly metabolized and eliminated from most biological organisms. Bioaccumulation, especially in vertebrate organisms, is usually short-term and is not considered an important process. Higher molecular weight PAHs are degraded slowly by microbes. Microbes appear to degrade PAHs much more completely than mammals. The half-life of PAHs in soils can range from a few days for the low molecular weight PAHs to several years for the high molecular weight molecules.

5.1.2 Volatile Organic Compounds

Characteristics of the most commonly detected VOCs in soil-gas samples are discussed below.

Acetone. Acetone is a commonly used non-persistent solvent. If released to soil, acetone will volatilize or dissolve into soil moisture that can be transported to the groundwater. It is highly water-soluble, which will limit evaporation in a moist environment. Acetone is aliphatic and biodegrades readily. In the atmosphere, acetone will be lost through photolysis and reaction with photochemically produced hydroxyl radicals. Acetone does not adsorb appreciably to soil.

Benzene. Benzene is both an industrial solvent and a fuel component. It is a colorless liquid with a sweet odor and a high vapor pressure. Benzene is found in nature as a component of crude oil. It will rapidly evaporate from soil surfaces, but is highly mobile in soil systems and will leach to groundwater. It is somewhat soluble in water (log K_{ow} equals 2.1) and can be a co-

solvent with alcohol, chloroform, acetone, carbon tetrachloride, and ether. Adsorption onto organic matter may be significant under conditions of constant exposure. Adsorption is one of the probable removal mechanisms in both surface water and groundwater along with microbial degradation. Atmospheric destruction of benzene via photolysis is a common fate process. The rate of benzene biodegradation may be enhanced by the presence of other hydrocarbons. The potential for bioconcentration is low.

1,2-Dichloroethene. 1,2-DCE is a highly flammable, colorless liquid with a sharp, harsh odor. It is used most often in solvents and may occur as a breakdown product (through microbial degradation) of common industrial solvents such as TCE, PCE, and 1,1,1-trichloroethane (1,1,1-TCA). Evidence for microbial degradation is generally found by the increasing concentrations of 1,2-DCE at increasing distances from source areas of parent compounds.

If released to soil, 1,2-DCE will evaporate or seep into soil and eventually leach to groundwater. It normally will biodegrade slowly in groundwater where it has a half-life of 13 to 48 weeks. 1,2-DCE does not significantly bioconcentrate in aquatic organisms. The chemical apparently does not adsorb significantly on soil or sediment.

Ethylbenzene. Ethylbenzene is a naturally occurring compound in crude oil and is a component of automotive and aviation fuels. It is used as a solvent and is a feed stock in the production of styrene. Ethylbenzene is a colorless liquid that is soluble in ethyl alcohol and ethyl ether. Evaporation is probably the major route of elimination from surface water. Subsequent atmospheric reactions, especially photooxidation, are responsible for its fate. It is photochemically reduced in the atmosphere to ethylphenol, benzaldehyde, acetophenone, and ethylnitro benzene. Ethylbenzene rapidly evaporates from water and soil systems and will biodegrade if an acclimation period for microorganisms is provided. A significant amount of ethylbenzene may be adsorbed by organic material in sediment or soil. Leaching to groundwater can occur in soils with a low organic matter content.

Tetrachloroethene. PCE is a colorless liquid widely used for dry cleaning fabrics and for degreasing metals. It is also used as a raw material for making other chemicals. It has a sharp, sweet odor and is corrosive to some metals in the presence of water. Evaporation is an important environmental fate process for PCE and it will eventually undergo photooxidation in the atmosphere. It is miscible with hexane, alcohol, benzene, chloroform, and most oils, but is not water soluble. In soils with a low organic matter content, PCE will migrate to the groundwater. In soils with high levels of organics, PCE adsorbs to these materials. It is unclear whether PCE that is bound to organic material can be degraded by microorganisms. Biodegradation to trichloroethene, then to dichloroethene (DCE), and, finally, to vinyl chloride will occur under anaerobic conditions.

Toluene. Toluene is a clear liquid that is often used as an industrial solvent and is a component of fuels. It is a naturally occurring compound in crude oil. Evaporation and biodegradation are the major fate processes for toluene. Photooxidation is the primary atmospheric fate of toluene. Benzaldehyde is reported to be the principal product of photooxidation. Adsorption is significant in carbonaceous soils. Bioaccumulation has not been reported as being an important fate mechanism.

1,1,1-Trichloroethane. 1,1,1-TCA is widely used as a solvent to dissolve other organic substances, such as glue and paint. In industry it is widely used to remove oil or grease from manufactured metal parts. The compound 1,1,1-TCA also occurs as a biodegradation product of 1,1,2,2-tetrachloroethane. At normal temperatures, 1,1,1-TCA is a nonflammable, colorless, and volatile liquid (Merck 1989). Because of its volatile nature, transport from surface soils to the atmosphere occurs rapidly. Photooxidation reactions with hydroxyl radicals is probably the principal fate process in the atmosphere. Although there are substantial differences in reported solubility in the literature, the solubility is relatively high among the chlorinated hydrocarbons.

Soil sorption is not expected to be sufficiently strong to prevent the migration of 1,1,1-TCA to groundwater. Decomposition of 1,1,1-TCA by hydrolysis can occur, which results in the production of acetic acid. Methane-producing bacteria may anaerobically dechlorinate 1,1,1-TCA to 1,1-DCA and then to chloroethane (ATSDR 1990).

Trichloroethene. TCE is a stable, nonflammable, colorless, and volatile liquid at ambient temperatures (Merck 1989). It is used as a solvent for resins, oils, rubber, paints, and varnishes. It is also used for solvent extraction of food stuffs (i.e., decaffeinating coffee), degreasing metals, dry cleaning, and manufacturing of other organic chemicals and pharmaceuticals (Merck 1989). TCE may result from the biodegradation of either PCE or tetrachloroethane (PCA).

At near surface temperatures, TCE rapidly evaporates. Once in the atmosphere, it reacts with hydroxyl radicals to produce hydrochloric acid, carbon monoxide, carbon dioxide, and carboxylic acid. The amount of volatilization is not affected by soil sorption (EPA 1985). TCE does, however, readily adsorb to organic materials and can be bioaccumulated. Because TCE is very soluble (1,100 milligrams per liter [mg/L]), it will dissolve in vadose zone soil moisture and migrate to groundwater. Under anaerobic conditions, TCE biodegrades first to DCE and subsequently to vinyl chloride; it can be a significant source for these compounds.

Xylene. Xylene occurs both naturally in crude oil and as manufactured chemical. Typical uses are in the production of benzoic acid, perfumes, and insect repellents. It is also used as a solvent for herbicides and enamel paints. Xylene is a clear liquid under normal environmental conditions and can be corrosive to some plastics and rubber.

Evaporation is the major fate and transport process for xylene. Photooxidation of xylene occurs in the atmosphere by compounds such as nitrophenols, aerosols, and benzaldehydes. It does not

bioconcentrate in aquatic organisms. Xylene is moderately soluble in water and can leach into the groundwater in areas of high concentration.

5.1.3 Metals

Metals concentrations in the environment may be affected by transport, speciation, and partitioning processes. Included are degradation of organometallic complexes and alteration of metallic species in the environment. Metal compounds released to unsaturated surface soils will most commonly be in the form of simple or complex ions that will either complex with ligands in solution or become adsorbed onto soil particles. The persistence of metals in solution is dependent on the metal species, pH, Eh, and complexing ions. Species transformation in the environment may alter the solubility and ultimate fate of the metal. In most cases, metallic species will either form strong surface complexes with iron or manganese oxide minerals or clays, or will precipitate as an independent phase oxide, carbonate, or sulfate mineral in the soil.

5.1.4 Radionuclides

The radioactive species of interest at RFETS are all metallic. They would be released into the environment as either metal particulates (e.g., Pu^0), metal oxide particulates (e.g., PuO_2), or simple or complex ions in solution (e.g., Pu^{3+}, $Pu[OH]_5^-$). Thus, the fate and transport mechanisms discussed in the previous section on metals are applicable to the radionuclides.

5.2 SUMMARY OF IHSS-SPECIFIC FINDINGS

The nature and extent of contamination at each IHSS or IHSS group, with the exception of soil-gas results, is characterized in the following subsections. Soil-gas nature and extent is included with the results discussion in Section 3. Information from the data summary and the graphical

presentation of the data in the attached plates were used to delineate areas of concern and examine contaminant migration at each IHSS.

5.2.1 IHSS Group 117.1 and 197 - North Chemical Storage Site and Scrap Metal Sites - 500 Area

The surface soil contamination within this group of IHSSs is limited to six metals, including copper, lead, mercury, selenium, silver, and zinc, and the radionuclides Pu-239/240. Plate 2 presents analytical results for surface soil. Two metals, copper and zinc, were present in excess of background concentrations in multiple samples in both of these IHSSs. The elevated copper concentrations are in the central portion of IHSS 117.1 near Building 223 and along the Protected Area perimeter fence in both IHSS 117.1 and 197. Zinc concentrations are elevated in most of the samples surrounding Buildings 223 and 549 in IHSS 117.1 and along the Protected Area perimeter fence in IHSS 197. The elevated copper and zinc concentrations are within the area that was used for scrap metal storage in the past. Scrap electrical wire and galvanized iron sheeting or construction materials are the probable source of the low levels of copper and zinc contamination. Mercury was measured at its detection limit in one isolated sample and selenium and silver were measured at their respective background concentrations in two other isolated samples. Lead was measured in excess of background (75.9 mg/kg versus a background of 61.4 mg/kg) in one sample along the Protected Area perimeter fence that was also high in copper and zinc.

Plutonium-239/240 were measured in activities in excess of background (0.1321 pCi/g) at two locations in the vicinity of Building 223 in IHSS 117.1. Radiological activities are shown on Plate 2. The corresponding HPGe gamma spectroscopy measurements did not indicate the presence of Pu-239/240. The location to the southeast of Building 223 had a Pu-239/240 activity of 0.16 pCi/g and the location immediately to the west of the building measured 0.43 pCi/g. Both of these values are an order of magnitude less than the PRG of 3.42 pCi/g.

5.2.2 IHSS Group 117.2, 158, and 169 - Middle Chemical Storage Site, Building 551 Radioactive Site, and Waste Peroxide Drum Burial

Seven metals (calcium, chromium, cobalt, copper, lead, nickel, and zinc) and five radionuclides (Am-241, Pu-239/240, U-233/234, U-235, and U-238) are present in concentrations in excess of background concentrations in the surface-soil samples collected from IHSSs 117.2 and 158. Plate 4 presents surface-soil results. No surface-soil samples were collected from IHSS 169. Several of the metallic contaminants (calcium, chromium, cobalt, copper, lead, and nickel) were found in one or two isolated samples. The elevated calcium concentration may either be an artifact of sampling (i.e., inadvertent inclusion of a caliche [$CACO_3$] fragment) or an isolated fragment of calcium metal that was used to produce plutonium metal. The other metals would be expected to be found in an area that was used for the storage and shipment of scrap metal: chromium and nickel from stainless-steel machining waste, copper from scrap electrical wire, and lead from batteries or seals.

The most widely distributed metal is zinc. Elevated zinc concentrations were measured around the periphery of both IHSS 117.2 and 158. Because galvanized sheet iron is a common construction material, construction scrap is probably the source of the zinc in this area.

Among the radionuclides with elevated activities, four radionuclides (Ra-226, U-233/234, U-235, and U-238) were each found in one isolated surface-soil sample at relatively low activities. Americium-241 and Pu-239/240 are more widely distributed, and occur together in about half of the samples (Plate 5). Americium-241 activities are elevated above background concentration activities along the western side of Building 551 in IHSS 158 and along the eastern border of IHSS 117.2. Plutonium-239/240 activities were recorded above background activities along the western side of Building 551 and in the northern portion of IHSS 117.2. These areas have been described in the OU13 RFI/RI Work Plan (DOE 1992a) as those in which boxes of radioactive

waste have leaked during transfer to disposal sites. The relative activities at locations where both radionuclides are present indicate that they probably came from a single source.

5.2.3 IHSS 186 - Valve Vault 12

Plate 4 is a plot of all of the detected contaminants of concern in IHSS 186, Valve Vault 12. Because the investigation in this IHSS was conducted in response to documentation of a break in one of the process waste lines, only radionuclide analyses were performed on the surface-soil samples. Americium-241, gross beta, Pu-239/240, and U-238 were present, with activities in excess of their background. Two samples (SS305193 and SS305393) had gross beta activities slightly (within 10 percent) in excess of the background of 55.35 pCi/g. These are adjacent samples southwest of tank 231B. The elevated U-238 activities are below its PRG and are limited to the western arm of the U-shaped IHSS. The Am-241 activities are elevated in all of the samples in the western arm and across the bottom of the "U." With the exception of two samples (SS304993 and SS304951) in the western arm of the "U," the distribution of Pu-239/240 is the same as that of Am-241. The Pu-239/240 activity in one sample (SS305593) exceeds both the background (0.1321 pCi/g) and the PRG (3.42 pCi/g) values. The radionuclides found in this IHSS may have originated from the process waste solutions that were released in 1986 when the process waste line broke.

5.2.4 IHSS Group 128, 171, and 134 - Oil Burn Pit No. 1, Solvent Burning Ground, and Lithium Metal Destruction Site

Plate 7 contains plots of the metals and radionuclide data for the IHSS group 128, 171, and 134. An evaluation of the analytical results of the surface-soil sample collected within IHSS 128 indicated that there were no concentrations of radionuclides detected above background concentrations. Five surface soil samples were collected within the footprint of IHSS 171 and three within that of 134N. Seven metals (calcium, copper, iron, magnesium, nickel, sodium,

and strontium) were present in elevated concentrations in the 134N sample (SS310393). Calcium and iron exceed background levels by 20 percent and 12 percent respectively, and are probably present due to the "nugget effect" in which a sample may have included small fragments of natural caliche and goethite (rust), and thus have elevated concentrations of the principal constituents, calcium and iron. IHSS 134N is a location where magnesium metal was burned. This activity would leave magnesium oxide (MgO) as a by-product. Copper concentrations greater than background are common in the vicinity of the Industrial Area, probably from scrap electrical wire. The elevated concentration of sodium is somewhat unusual in that most sodium compounds are either soluble or are silicate minerals that resist the acid attack used for extraction during soils analyses. The source of the nickel in excess of background concentrations (30.3 versus 26.9 mg/kg) may be surface corrosion from one of the stainless steel pans that were used to hold solvents for combustion during fire extinguisher training. Strontium is, like calcium, an alkaline earth metal and it also can make up a major portion of caliche. The origin of the strontium is not known.

Two surface-soil samples, SS302093 and SS302493, from IHSSs 134N and 171 contained Am-241 and Pu-239/240 activities in excess of their respective backgrounds but below PRGs. Both samples were located in the northern portion of the IHSSs near Sage Street. Five radionuclide species (Am-241, gross beta, Pu-239/240, U-233/234, and U-238) were found with activities above background but below PRGs in the surface soil-samples from IHSS 134S (Plate 8). Two samples near Building 331 have elevated gross beta activities (SS302693 and SS303593). The elevated gross beta activity has been attributed to the use of a commercial deicing product, Polar Melt™. Polar Melt™ is a potassium chloride product and the additional K-40 from runoff to the soil should increase the beta activity. As expected, plutonium and americium are found in the same samples with the exception of two samples that contain plutonium only, and the parent U-238 and the daughter U-233/234 are found together in two samples. In one sample, U-233/234 is found alone (SS303493) and in another sample, it is found with Am-241 and Pu-239/240

(SS303093). The presence of these radionuclides indicates that the lithium and oils burned in this area were contaminated at the time that they were combusted.

5.2.5 IHSS 148 - Waste Spills

Plate 9 provides analytical results from the 11 surface-soil samples collected within the footprint of IHSS 148. Seven metals (arsenic, chromium, cobalt, copper, lead, nickel, strontium, and zinc) were present in elevated concentrations in one or more of these samples. Chromium is present in elevated concentrations (maximum, 95.6 mg/kg) in eight of the 11 samples. A cobalt concentration slightly in excess of background (28.7 versus 24.8 mg/kg) was found in one sample to the south of Building 123. This sample (SS306793) did not contain elevated concentrations of any other metals and the origin of the cobalt is not known. Elevated copper concentrations (maximum, 145 mg/kg) were detected in two samples from area within the center of the U and one sample adjacent to the building to the north. Lead concentrations are elevated in the surface soils throughout the IHSS. Two surface-soil samples next to the building showed elevated nickel concentrations: SS306993 and SS307493. One sample (SS307693) contained strontium exceeding the background concentration (94.7 versus 90.1 mg/kg). This probably represents an outlier in the range of naturally occurring concentrations. Elevated zinc concentrations were found in seven of the 11 samples collected (range 113 to 1,220 mg/kg, background 86.6 mg/kg).

Four radionuclides had activities above background but below PRGs in the surface-soil samples collected from IHSS 148: Am-241, Pu-239/240, U-233/234, and U-238. The Am-241, Pu-239/240, and U-238 are found, either singly or in pairs, in the samples collected to the north and east of Building 123. The U-233/234 was confined to samples collected within the central area between the building's wings. These radionuclides were probably contributed to the environment when contaminated isopropyl ether waste was disposed of by dumping it on the

ground and allowing it to evaporate, as was the reported practice during the early days of operations at RFETS (DOE 1992a).

5.2.6 IHSS Group 157.1 and 191 - North Area Radioactive Site and Hydrogen Peroxide Spill

The soil samples collected within IHSS 157.1 were analyzed for SVOCs, a modified list of TAL metals, and the RFETS target radionuclides. Five PAHs from the SVOC suite were detected in the surface soil samples: benzo(a)anthracene, benzo(b)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Benzo(b)pyrene was found in concentrations ranging from 120 to 4,400 μg/kg in 10 of the 11 samples collected (Plate 10). Two of those samples also contained benzo(b)fluoranthene and dibenzo(a,h)anthracene (SS301193 and SS301293) and two contained the full suite of all five PAHs (SS300393 and SS300493). The PAHs are common constituents of coal tar and asphalt (Verschueren 1983). Much of the area within which IHSS 157.1 resides is paved and the PAHs could be potentially associated with dust that has been generated by the abrasion of the road surface.

Three metals (copper, lead, and zinc) were measured in concentrations in excess of their background values (Plate 11) in surface-soil samples. The copper concentration was elevated in one isolated sample at the north end of the IHSS near Central Avenue (SS300393). The concentration (143 mg/kg) is more than five times the background UTL (27.3 mg/kg) but about 1 percent of the PRG (11,000 mg/kg). This isolated incidence of contamination is probably due to the presence of grains or fillings of copper or brass construction waste. Two isolated surface-soil samples (SS300493 and SS301193) contained elevated concentrations of lead. The wide use of lead bricks and sheeting for gamma ray shielding will generate significant quantities of metallic lead and lead oxide dust. This fugitive dust may account for localized areas of contamination. Two different samples (SS300993 and SS301293) contained slightly elevated concentrations of zinc (89.5 and 101 mg/kg versus a background value of 86.6 mg/kg).

Although there is no documented use of zinc in the production processes, galvanized construction materials are widely used within the Industrial Area as fences, street light poles, process-line supports, etc. The widespread zinc contamination is probably attributable to these construction materials.

Four radionuclides had elevated activities in the surface-soil samples collected from IHSS 157.1: Am-241, Pu-239/240, U-233/234, and U-238. One sample (SS300393) contained only Am-241 and one (SS301293) contained only Pu-239/240. The other samples contained two or more of the radionuclides. There is not a pattern in the distributions or the associations of radionuclides within this IHSS and the majority of the IHSS contains at least low levels of contamination. The main building in this area is the laundry (Building 442), which has handled both contaminated and uncontaminated clothing for many years (DOE 1992a). The most probable source of the radionuclide contamination is fugitive dust or cleaning solutions from the laundry.

5.2.7 IHSS Group 152 and 117.3 - Fuel Oil Tank and South Chemical Storage Tank

Four metals were detected in the surface-soil samples collected in IHSS 117.3: cobalt, lead, selenium, and zinc. Plate 11 provides analytical results for concentrations above background. Selenium was detected in one sample (SS308593) with a concentration slightly in excess of the background UTL (1.5 versus 1.4 mg/kg). The measured selenium concentration is sufficiently close to the background UTL that it is probably an outlier in the naturally occurring population. The concentration of cobalt was elevated (53.5 mg/kg) in a sample that was collected near the south Central Avenue ditch downstream of the IHSS. There is no recorded use of cobalt in the industrial processes at RFETS. The origin of the elevated cobalt concentration is unknown. Two samples (SS308193 and SS308493) contained elevated concentrations of lead. The wide use of lead bricks and sheeting for gamma-ray shielding will generate significant quantities of metallic lead and lead oxide dust. This fugitive dust may account for localized areas of contamination. Seven of the 11 samples collected contained elevated concentrations of zinc.

Although there is no documented use of zinc in the production processes, galvanized construction materials are widely used within the Industrial Area as fences, street light poles, process-line supports, etc. The widespread zinc contamination is probably attributable to these construction materials.

Three radionuclides had elevated activities above background but below PRGs in the surface soil samples collected from IHSS 157.1: Pu-239/240, U-233/234, and U-238. Two samples taken near the south Central Avenue ditch (SS308793 and SS308893) contained elevated activities of U-233/234 and one of those (SS308893) also contained excess U-238. These are natural isotopes of uranium and the measured activities are within the range of counting error for the measurement of background. The measured uranium activities are probably within the population of background measurements. The most widely spread radionuclide within IHSS 117.3 is Pu-239/240. Elevated activities were measured in four of the 11 samples (Plate 8). There was a documented spill of contaminated oil from a glove box that had been removed from Building 776 (DOE 1992a). Building 776 is one of the facilities in which plutonium was processed; thus, this oil spill is the probable source of the contamination in IHSS 117.3.

5.2.8 IHSS 190 - Caustic Leak

No soil-gas or surface-soil samples were collected within this IHSS.

6.0 RECOMMENDATIONS

This Data Summary presents the Stage 1 nonintrusive data and provides recommendations for subsequent stages of the RFI/RI. Recommendations for each IHSS are based on the results of nonintrusive or limited-intrusive screening level surveys conducted for the Stage 1 investigations. Analytical and survey data were summarized and assessed in Sections 3.0 and 4.0. A preliminary evaluation of the nature and extent of contamination at each IHSS was presented in Section 5.0.

The following paragraphs provide information on the IHSS remediation category evaluation process completed in the Proposed Plan for Reorganization and Remediation of the Industrial Area Operable Units (EG&G 1994a). The remediation categories and results of the Stage 1 investigations are the basis for general recommendations for each IHSS. Recommendations for additional investigations are consistent with the intrusive Stage 1 investigation presented in the OU13 RFI/RI Work Plan (DOE 1992a).

Based on the assessment of Stage 1 surface-soil data presented in Section 4.2, it appears that the data generated during the course of this investigation are generally sufficient for statistical characterization of the means for most parameters in each of the IHSSs (at least to the 95 percent confidence [$\alpha = 0.05$] that the sample mean and the total population mean are within 80 percent of the value of the population mean [$d_r = 0.8$]).

Because the focus of this investigation was on surficial materials and shallow soil gas, it must be recognized that intrusive investigations into the subsurface are a natural progression in the characterization of the OU13 IHSSs. The data collected during this campaign are intended to

focus these further investigations into the subsurface distribution of the various constituents of concern.

6.1 IHSS GROUP 117.1 AND 197 - NORTH CHEMICAL STORAGE SITE AND SCRAP METAL SITES - 500 AREA

The soil-gas data indicate low concentrations of both fuel constituents and chlorinated hydrocarbon solvents. All of the measured shallow soil-gas concentrations are sufficiently low that there is no suggestion that they are in equilibrium with free-phase product or with soil moisture that is saturated with hydrocarbons. Elevated concentrations, including one for chlorinated hydrocarbon solvents (SG121394) and one for fuel constituents (SG132994), that could be explored further are isolated and contaminants were not detected in adjacent sampling locations. These locations are in the north-central and southern portions of IHSS 197.

None of the metal concentrations above background within these IHSSs are within an order of magnitude of their respective PRGs. The nonintrusive surface-soil investigation has established, with a 95 percent confidence level, that at least 25 percent of the area of these IHSSs is contaminated with metals and radionuclides detected above background concentrations. Therefore, it is recommended that further sampling not be conducted for delineation of the surface-soil metal contamination. However, consideration may be given to collecting approximately 20 surface-soil samples to characterize the statistical distribution of contaminants in these IHSSs.

The only additional sampling recommended for these IHSSs is to delineate the subsurface contamination. It is proposed to drill a minimum of three boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The locations of these boreholes would be in areas that currently show surface contamination. In addition, groundwater

samples should be collected from the two existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a).

6.2 IHSS GROUP 117.2, 158, AND 169 - MIDDLE CHEMICAL STORAGE SITE, BUILDING 551 RADIOACTIVE SITE, AND WASTE PEROXIDE DRUM BURIAL

The widespread soil-gas contamination, which includes methane, fuel constituents, and chlorinated hydrocarbons, suggests a source in the vicinity. While there are few measured concentrations that are sufficiently high to suggest the existence of free-phase product, the distribution should be investigated further. It is proposed to drill a minimum of four boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The locations of these boreholes would be in areas that currently show elevated soil-gas contamination (Plate 6). In addition, groundwater samples should be collected from the four existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a).

None of the elevated metal concentrations of samples collected within these IHSSs are within an order of magnitude of their respective PRGs. The nonintrusive surface-soil investigation has established, with a 95 percent confidence, that at least 25 percent of the area of these IHSSs is contaminated with metals and radionuclides detected above background concentrations. In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents, more surface-soil samples will need to be collected (Section 4.2). Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in these IHSSs. The distribution of metals with depth can be investigated by analyzing the samples from the exploratory boreholes recommended above.

6.3 IHSS 186 - VALVE VAULT 12

The soil-gas concentrations were low (less than 2 μg/L) and isolated. There is no reason to pursue soil-gas characterization further.

The radionuclides were the only other family of constituents for which analyses were conducted. Elevated activities of Am-241, Pu-239/240, and U-238 were widespread within this IHSS. To determine the distribution of radionuclides in the subsurface, it is recommended that two boreholes be drilled to the water table and that samples of soil and groundwater be collected for radionuclide analyses. In addition, groundwater samples should be collected from the two existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a). One of the boreholes should be located in the southeastern portion of the IHSS and the other in the southwestern portion. The nonintrusive surface-soil investigation has established, with a 95 percent confidence, that at least 25 percent of the area of the IHSS is contaminated with radionuclides detected above background concentrations. In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents, more surface soil samples will need to be collected. Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in this IHSS.

6.4 IHSS 128, 134N, 134S, AND 171 - OIL BURN PIT NO. 1 WASTE LEAK, SOLVENT BURNING GROUND, AND LITHIUM METAL DESTRUCTION SITE

The widespread fuel and solvent contamination associated with these IHSSs demands that the subsurface distribution of the VOCs be determined. Although the current soil-gas concentrations are relatively low, records show that the training exercises involved dumping the fuel out onto

the ground before ignition. This should have allowed some infiltration. It is proposed to drill a minimum of four boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The locations of these boreholes would be in areas that currently show elevated soil-gas contamination—two in the north, within IHSSs 128 and 134N, and two in the south, within IHSS 134S. The samples from these boreholes will also be analyzed for their radionuclide activities in order to determine whether the contaminated liquids carried radionuclides to depth. In addition, groundwater samples will be collected from the four existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a).

The nonintrusive surface soil investigation has established, with a 95 percent confidence, that at least 25 percent of the area of these IHSSs is contaminated with metals and radionuclides detected above background concentrations, thus demonstrating that contaminants are site-generated. A comparison to PRGs was not made because several detected constituents have no PRGs. In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents, more surface-soil samples will need to be collected (Section 4.2). Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in those IHSSs.

6.5 IHSS 148 - WASTE SPILLS

The area on the north side of Building 123 contained elevated concentrations of solvents in the soil gas, and metals and radionuclides in the soil. In addition, the soils on the east side of the building contain elevated concentrations of Pu-239/240 and several metals. It is proposed to drill a minimum of two boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The samples from these boreholes will also be analyzed

for their radionuclide activities and metals concentrations in order to determine the subsurface distribution of these species.

The nonintrusive surface-soil investigation has established, with a 95 percent confidence, that at least 25 percent of the IHSS area is contaminated with metals and radionuclides detected above background concentrations. In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents, more surface-soil samples will need to be collected (Section 4.2). Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in this IHSS.

6.6 IHSS GROUP 157.1 AND 191 - NORTH AREA RADIOACTIVE SITE AND HYDROGEN PEROXIDE SPILL

Elevated concentrations of several PAHs were found in the southwestern corner of IHSS 157.1. This area was also the location of the only soil-gas contamination, although the soil-gas contaminant is PCE and not the BTEX compounds that are normally associated with heavy PAH contamination. Uranium isotope contamination is relatively widespread around this IHSS and there are isolated, low-activity detections of Am-241 and Pu-239/240. The elevated metals measurements are also isolated and do not show a pattern that would indicate significant overall contamination. It is proposed to drill a minimum of two boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The samples from these boreholes will also be analyzed for their radionuclide activities and metals concentrations in order to determine the subsurface distribution of these species. The two boreholes should be located in the southwestern and eastern portions of the IHSS. In addition, groundwater samples

should be collected from the three existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a).

The nonintrusive surface-soil investigation has established, with a 95 percent confidence, that at least 25 percent of the area of these IHSSs is contaminated with metals and radionuclides detected above background concentrations. In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents and the PAHs, more surface-soil samples will need to be collected (Section 4.2). A comparison to PRGs was not made because several constituents have no PRGs. Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in these IHSSs.

6.7 HSS GROUP 152 AND 117.3 - FUEL OIL TANK AND SOUTH CHEMICAL STORAGE TANK

Only two soil-gas samples contained VOC contamination, and the concentrations were less than one μg/L above the detection limit of the instrumentation. In order to evaluate the distribution of radionuclides and metals in the subsurface, it is proposed to drill a minimum of two boreholes to the water table, sample the soil gas at 5-foot intervals, and collect soil and groundwater samples. The samples from these boreholes will also be analyzed for their radionuclide activities and metals concentrations in order to determine the subsurface distribution of these species. The two boreholes should be located in the northwestern and eastern portions of the IHSS. In addition, groundwater samples should be collected from the two existing monitoring wells in accordance with the OU13 RFI/RI Work Plan (DOE 1992a).

Both Pu-239/240 and zinc were detected in most of the surface-soil samples collected, but the activities/concentrations were at least an order of magnitude below their respective PRGs. The nonintrusive surface-soil investigation has established with a 95 percent confidence that at least 25 percent of the area of the IHSSs is contaminated with metals and radionuclides detected above background concentrations.

In the event that it becomes necessary to meet a set parametric statistical condition (e.g., 95 percent confidence that the difference between the sample mean and total population mean is less than 20 percent) for all metallic constituents and the PAHs, more surface-soil samples will need to be collected (Section 4.2). Approximately 20 surface-soil samples need to be collected and analyzed for previously detected contaminants to characterize the statistical distribution of contaminants in these IHSSs.

6.8 IHSS 190 - CAUSTIC LEAK

No further sampling is recommended for this area.

6.9 NO FURTHER ACTION IHSSs

The *Process for Determining the Remediation Category of IHSSs* (ICF Kaiser Engineers 1994), which was developed to support ER-2000 accelerated actions initiative, defines the No Further Action (NFA) Category as IHSSs for which sufficient information currently exists to indicate that RI/FS, RFI/RI, or IM/IRA is not necessary. There are three IHSSs that have been designated for NFA in OU13 based on the nonintrusive investigations specified in the OU13 RFI/RI Work Plan (DOE 1992a). The following paragraphs describe each of the three IHSSs and the rationale for the NFA determination.

IHSS 169. The OU13 RFI/RI Work Plan (DOE 1992a) describes this IHSS as an area where a 55-gallon hydrogen peroxide drum may have been buried in the chemical storage area east of Building 551. The drum burial is not well documented and may not have occurred. According to the Work Plan, the location of the drum burial may be in IHSS 191. Both the Work Plan and Technical Memorandum 1 (DOE 1994a) concluded that, regardless of the location of the drum burial, a release or potential release of hydrogen peroxide does not constitute a threat to human health or the environment. ICF Kaiser Engineers (1994) reported that the exposure potential was low, current environmental quality is satisfactory, and potential for contaminant migration is low. Because hydrogen peroxide (H_2O_2) degrades to oxygen and water in the near-surface environment, samples were not collected to characterize IHSS 169 for the nonintrusive investigations.

IHSS 190. According to the OU13 RFI/RI Work Plan (DOE 1992a), IHSS 190 is described as an area where there have been two documented releases from a raw material caustic storage tank located near the southeast corner of Building 443. The releases occurred in 1978 and 1989. The caustic material was sodium hydroxide, and alum was used to neutralize both releases. According to the Work Plan, all of the sodium hydroxide from the second release was contained in the tank's secondary containment basin. The only part of this IHSS recommended for further investigation is the Central Avenue Ditch, which is located in a portion of IHSS 190 and may have been impacted by the first caustic release in 1978. The Work Plan recommended no further investigation of the IHSS. ICF Kaiser Engineers (1994) reported that the exposure potential is low, the current environmental quality is satisfactory, and the potential for migration is low. The portion of IHSS 190 that includes the Central Avenue Ditch will be investigated separately as part of the surface-water and sediment sampling effort managed under OU12. The constituents expected to be present in soils or groundwater as a result of the releases are aluminum, sodium, and sulfate. These are naturally occurring constituents, and previous

investigations in the area indicate that groundwater concentrations of these constituents are within normal background ranges.

IHSS 191. IHSS 191 is the result of a 55-gallon drum of hydrogen peroxide falling from a pallet during transportation, bursting, and draining its contents into a culvert at the corner of Fifth Street and Central Avenue. This incident occurred in 1981. The Fire Department hosed down the area, allowing the diluted hydrogen peroxide to drain into a containment hole, required by proper spill management procedures. ICF Kaiser Engineers (1994) reported that the exposure potential was low, current environmental quality is satisfactory, and potential for contaminant migration is low. Because hydrogen peroxide (H_2O_2) degrades to oxygen and water in the near-surface environment, samples were not collected to characterize IHSS 191 for the nonintrusive investigations.

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TABLE 2-1
Operable Unit 13 - Analytes for Surface Soil Samples from Each OU13 IHSS
Rocky Flats Environmental Technology Site

IHSS #	Total Rads		TAL Metals		BNACLP		VOA		Lithium		Magnesium		Molybdenum		Cesium		Strontium		Tin		pH	
	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.	Req.	Rcvd.
117.1	X	X	X	X			X	X		X				X				X				
117.2	X	X	X	X						X				X		X		X				
117.3	X	X	X	X						X				X		X		X			X (partial)	*
128	X	X							X	X	X	X		X				X				
134N	X	X	X	X			X	X	X	X	X	X										
134S	X	X							X	X												
148	X	X	X	X						X				X		X		X				
157.1	X	X	X	X	X	X*				X				X		X		X		X	X	X
158	X	X	X	X						X				X		X		X				
171	X	X							X	X	X	X										
186	X	X																				
197	X	X	X	X			X	X		X				X				X				
NOIHSS	X	X							X	X	X	X										

Notes:
* Data received but not validated

NOTE: NO SURFACE SOIL SAMPLING WAS PERFORMED FOR IHSSs 152, 169, 190, & 191

BNACLP = Base/neutral and acid extractable organics/Contract Laboratory Program
IHSS = Individual Hazardous Substance Site
pH = Measure of Acidity and Alkalinity
Req. = Required
Rcvd. = Received
TAL = Target Analyte List
VOA = Volatile Organic Analyte

Analytes Not Required By Work Plan For This IHSS

Analytical results received and included in data evaluation for Data Summary No. 2

TABLE 2-2
OU13 Soil-Gas Target Analytes
Rocky Flats Environmental Technology Site

Sample Type	Target Detection Limit (µg/L)
1,1,1-Trichloroethane	1
1,1-Dichloroethane	1
2-Butanone	1
Acetone	1
Benzene	1
Carbon Disulfide	1
Carbon Tetrachloride	1
Chloroform	1
cis-1,2-dichloroethene	1
Ethylbenzene	1
Hydrogen Sulfide	5 (ppm)
Methane	20 (ppm)
Methylene Chloride	1
Styrene	1
Tetrachloroethene	1
Toluene	1
Total Xylenes	1
Trichloroethene	1
Vinyl Chloride	1

Notes:

OU = Operable Unit
ppm = parts per million
µg/L = micrograms per liter

TABLE 2-3
Analytes for OU13 Asphalt Samples
Rocky Flats Environmental Technology Site

Isotope
Cesium-134
Cesium-137
Amercuim-241
Plutonium-238
Plutonium-239 & 240
Strontium-89
Strontium-90
Uranium-234
Uranium-235
Uranium-238

TABLE 3-1
Background Activities of Specific Radionuclides

Radionuclides	Background Activities Identified in Literature Search (pCi/g)	Source	Rock Creek Background Upper Tolerance Limit[1] ($UTL_{999/99}$) (pCi/g)	Max. HPGe Activity From Background RFETS Survey[2] (pCi/g)
Potassium-40	1.89-21.8	Henderson (1982) Faure (1977) NCRP (1987)	NR	12.8
Radium-226	0.017-1.0	Henderson (1982) EG&G (1992d) NCRP (1987)	1.59	1.13
Thorium-232	0.99-1.35	Henderson (1982) NCRP (1987)	NR	1.25
Uranium-238	1.08-1.78	Henderson (1982) NCRP (1987)	1.91	2.30
Uranium-235	0.01-0.09	NCRP (1987) EG&G (1992d)	0.20	0.10
Cesium-137	0.01-1.37	Henderson (1987) EG&G -EM (1990) EG&G (1992b) Faure (1977)	NR	0.84
Americium-241	0.01-0.05	EG&G (1992d) CDH (1992) Henderson (1987)	0.06	0.10
Plutonium-239/240	0.009-0.05	EG&G (1992d) CDH (1992) Henderson (1987)	0.13 pCi/g	††

†† HPGe technology only capable of measuring plutonium-239 in the nanocurie-per gram (nCi/g) range.
NR = Not Reported

1. DOE 1994d
2. Appendix A-1

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS 158 S-13/SS304693	IHSS 158 T-13/SS303893	IHSS 158 U-13/SS304093/VP30694	IHSS 158 V-13/SS304393/VP30594	IHSS 158 YY13/SS304593	IHSS 117.2 O-13/SS305993	IHSS 117.2 P-13/SS306293
HPGe SURVEY (pCi/g)							
AMERICIUM-241	0.33	0.51	0	0	0	1.67	3.64
PLUTONIUM-239	0	0	0	0	0	0	0
THORIUM-232	1.23	1.31	1.11	1.01	1.63	1.44	1.4
URANIUM-238	1.9	2.3	2	1.8	2.4	2.8	2.4
URANIUM-235	0.07	0.03	0.04	0.07	0.07	0.06	0.06
HPGe 0-2" (pCi/g)							
TOTAL ACTIVITY			17.4	23.7			
AMERICIUM-241			<0.059	<0.216			
PLUTONIUM-239			<1.23E5	<9.28E4			
THORIUM-234			1.37	2.75			
URANIUM-237			<0.052	<0.082			
URANIUM-235			<0.165	<0.122			
HPGe 2-4" (pCi/g)							
TOTAL ACTIVITY			42.5	36.8			
AMERICIUM-241			<0.521	<0.156			
PLUTONIUM-239			<1.49E5	<5.33E4			
THORIUM-234			<3.23	<1.32			
URANIUM-237			<0.101	<0.086			
URANIUM-235			<0.216	<0.110			
HPGe 4-6" (pCi/g)							
TOTAL ACTIVITY			86.4	34.6			
AMERICIUM-241			<0.204	<0.066			
PLUTONIUM-239			<9.65E4	<1.03E5			
THORIUM-234			3.06	1.42			
URANIUM-237			<.0.070	<0.083			
URANIUM-235			<0.168	<0.130			
SOIL SAMPLE							
AMERICIUM-241	0.009 :V	0.184 :Y	0.032 :Y	0.042 :V	0.044 :V	0.132 :Y	0.116 :Y
GROSS ALPHA	18.93 :V	28.650 :Y	26.5 :Y	18.9V	20.59 :V	33.9 :Y	22.820 :Y
GROSS BETA	34.78:V	49.460 :Y	41.92 :Y	33.99:V	43.74 :V	47.17 :Y	44.350 :Y
PLUTONIUM-239/240	0.00 :V	0.006 :Y	0.08 :Y	.18:V	0.139 :V	0.09 :Y	0.077 :Y
TRITIUM	11.54 :J:V	52.190 :Y	43.280 :Y	-52.9:J:V	-86.6 :J:V	-27.10 :Y	-68.600 :Y
URANIUM-233,-234	1.099 :V	1.753 :Y	1.404 :Y	0.914:V	1.242 :V	1.722 :Y	1.184 :Y
URANIUM-235	0.043 :V	0.125 :Y	0.067 :Y	0.372:V	0.039 J:V	0.087 :Y	0.054 :Y
URANIUM-238	1.16 :V	1.570 :Y	1.609 :Y	0.863:V	1.136 :V	1.537 :Y	1.114 :Y
SPATIAL RELATIONSHIP *	40' NE	20' SW	30' SSE	55' SE	80' NE	20' SW	30' N

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS 117.2 Q-13/SS306193/VP31094	IHSS 117.2 R-13/SS305893/VP30994	IHSS 117.2 W-13/SS306593	IHSS 157.1 and 191 CC-13/SS301393	IHSS 157.1 and 191 DD-13/SS300893/VP30294	IHSS 157.1 and 191 EE-13/SS301193
HPGe SURVEY (pCi/g)						
AMERICIUM-241	6.28	0.85	0.91	0	0	0
PLUTONIUM-239	0	0	0	0	0	0
THORIUM-232	1.74	1.27	1.51	1.46	1.23	1.39
URANIUM-238	2.4	1.9	2.3	2.3	2.7	2.5
URANIUM-235	0.1	0.05	0.08	0.07	0.07	0.08
HPGe 0-2" (pCi/g)						
TOTAL ACTIVITY	33.1	47.2			43.9	
AMERICIUM-241	<0.338	<0.113			<0.059	
PLUTONIUM-239	<1.15E5	<6.93E4			<1.06E5	
THORIUM-234	<3.62	1.84			<0.669	
URANIUM-237	<0.131	<0.086			<0.077	
URANIUM-235	<0.196	<0.159			0.152	
HPGe 2-4" (pCi/g)						
TOTAL ACTIVITY	43.6	36.3			54.8	
AMERICIUM-241	<0.495	<0.372			<0.056	
PLUTONIUM-239	<1.11E5	<5.81E4			<1.07E5	
THORIUM-234	<3.05	<2.37			2.09	
URANIUM-237	<0.078	<0.123			<0.051	
URANIUM-235	0.177	<0,159			<0.164	
HPGe 4-6" (pCi/g)						
TOTAL ACTIVITY	40.1	29.9			48.7	
AMERICIUM-241	<0.345	<0.342			<0.066	
PLUTONIUM-239	<8.53E4	<1.14E5			<6.04E4	
THORIUM-234	<3.10	<2.67			2.07	
URANIUM-237	<0.135	<0.101			<0.067	
URANIUM-235	<0.184	<0.138			<0.153	
SOIL SAMPLE						
AMERICIUM-241	0.067 :V	0.092 :Y	0.006 :Y	0.007 :V	0.012 :V	0.024 :V
GROSS ALPHA	24.740 :V	19.370 :Y	20.110 :Y	30.6 :Y	25.8 :Y	23.18 :V
GROSS BETA	41.900 :V	42.040 :Y	30.990 :Y	50.63 :Y	20.96 :Y	41.1 :V
PLUTONIUM-239/240	0.246:R	0.213 :Y	0.010 :Y	0.027 :V	0.041 :V	0.062 :V
TRITIUM	15.77:J:V	-1.930 :Y	13.520 :Y	48.11: J:V	206.9 :J:V	-30.8 J:V
URANIUM-233,-234	1.599:V	1.535 :Y	0.730 :Y	2.269 :V	3.185 :V	0.99 :V
URANIUM-235	0.048:J:V	0.049 :Y	0.047 :Y	0.078 :V	0.116 :V	0.05 :J:V
URANIUM-238	1.595:J:V	1.379 :Y	0.865 :Y	2.03 :V	3.975 :V	1.436 :V
SPATIAL RELATIONSHIP *	CO-LOCATED	60' SE	30' ESE	15' S	5' NNW	25' NNW

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS 157.1 and 191 FF-13/ SS300493/VP30194	IHSS 157.1 and 191 GG-13/SS300693	IHSS 128, 134N, and 171 Y-13/SS301693	IHSS 128, 134N, and 171 Z-13/SS302493/VP30394	IHSS 128, 134N, and 171 AA-13/SS301993	IHSS 128, 134N, and 171 BB-13\SS302093
HPGe SURVEY (pCi/g)						
AMERICIUM-241	0	0	0	0	0	0
PLUTONIUM-239	0	0	0	0	0	0
THORIUM-232	1.47	1.54	0.97	1.36	0.95	1.2
URANIUM-238	2.1	2.5	2.1	2.6	1.8	1.8
URANIUM-235	0.1	0.1	0.05	0.08	0.08	0.08
HPGe 0-2" (pCi/g)						
TOTAL ACTIVITY	45.4			27.5		
AMERICIUM-241	0.8254			<0.228		
PLUTONIUM-239	<8.82E4			<9.44E4		
THORIUM-234	2.51			<1.84		
URANIUM-237	<0.08			<0.097		
URANIUM-235	0.174			<0.126		
HPGe 2-4" (pCi/g)						
TOTAL ACTIVITY	34			40.5		
AMERICIUM-241	<0.330			<0.156		
PLUTONIUM-239	<1.13E5			<8.7E4		
THORIUM-234	5.457			3.43		
URANIUM-237	<0.118			<0.038		
URANIUM-235	<0.153			<0.134		
HPGe 4-6" (pCi/g)						
TOTAL ACTIVITY	35.8			36.2		
AMERICIUM-241	<0.065			<0.458		
PLUTONIUM-239	<1.09E5			<7.23E4		
THORIUM-234	1.946			<2.80		
URANIUM-237	<0.083			<0.125		
URANIUM-235	<0.162			<0.176		
SOIL SAMPLE						
AMERICIUM-241	0.027 :V	0.026 :V	0.252 :V	0.097 :V	0.015 :V	0.066 :V
GROSS ALPHA	27.87 :V	32.99 :V	17.910 :Y	17.42 :Y	19.33 :V	27.56 :Y
GROSS BETA	43.22 :V	47.82 :V	39.730 :Y	38.10 :Y	45.93 :V	38.57 :Y
PLUTONIUM-239/240	0.078 :V	0.033 :V	0.583 :V	0.135 :V	0.037 :V	0.183 :V
TRITIUM	-28.9 :J:V	-239 :J:V	161.700 :V	-1.92 :J:V	114.5 :J:V	18.28 :J:V
URANIUM-233,-234	3.242 :A	1.571 :V	1.044 :V	1.094 :V	1.232 :A	1.414 :V
URANIUM-235	0.122 :A	0.049 :J:V	0.071 :V	0.044 :J:V	0.048 :J:A	0.06 :V
URANIUM-238	5.265 :A	1.48 :V	1.305 :V	0.996 :V	1.029 :A	1.626 :V
SPATIAL RELATIONSHIP *	25' ESE	60' SSW	15' NW	5' S	20' W	100' E

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS 134S X-13/SS303093/VP30494	IHSS 186 I-13/SS305593/VP30894	IHSS 186 J-13/SS305193/VP30794	IHSS148 ZZ-13/SS307593	IHSS148 3A-13/SS307393	IHSS148 3B-13/SS306893/VP31294
HPGe SURVEY (pCi/g)						
AMERICIUM-241	0	0.15	0	0	0	0
PLUTONIUM-239	0	0	0	0	0	0
THORIUM-232	1.23	1.04	1.05	1.52	1.11	1.01
URANIUM-238	2.3	2	2.2	2.2	1.9	1.7
URANIUM-235	0.09	0.09	0.04	0.09	0.08	0.08
HPGe 0-2" (pCi/g)						
TOTAL ACTIVITY	32.67	44.6	41.7			34.6
AMERICIUM-241	<0.262	2.88	<0.192			<0.154
PLUTONIUM-239	<8.01E4	<6.15E4	<9.06E4			<6.48E4
THORIUM-234	<1.90	<2.39	<2.48			<0.302
URANIUM-237	<0.122	<0.129	<0.060			<0.121
URANIUM-235	<0.141	<0.136	<0.165			<0.186
HPGe 2-4" (pCi/g)						
TOTAL ACTIVITY	13.1	7.03	44			45
AMERICIUM-241	<0.110	<0.050	<0.101			<0.447
PLUTONIUM-239	<3.84E4	<8.97E4	<1.04E5			<7.85E4
THORIUM-234	<1.40	<0.600	1.32			<2.84
URANIUM-237	<0.078	<0.096	<0.079			<0.118
URANIUM-235	<0.127	<0.174	0.17			<0.157
HPGe 4-6" (pCi/g)						
TOTAL ACTIVITY	29.9	53.4	38.1			50.2
AMERICIUM-241	<0.099	0.7095	<0.429			<0.156
PLUTONIUM-239	<6.37E4	<5.37E4	<1.01E5			<8.53E4
THORIUM-234	1.61	2.16	3.37			2.87
URANIUM-237	<0.079	<0.048	<0.127			<0.119
URANIUM-235	0.22	0.254	<0.175			<0.142
SOIL SAMPLE						
AMERICIUM-241	0.116 :V	1.464 :V	0.057 :V	0.197 :Y	0.034 :Y	0.028 :Y
GROSS ALPHA	41.21 :Y	30.65 :V	24.35 :V	27.54 :Y	23.53 :Y	29.260 :Y
GROSS BETA	35.48 :Y	40.86 :V	57.55 :V	47.82 :Y	41.12 :Y	42.850 :Y
PLUTONIUM-239/240	0.465 :V	7.663 :V	0.084 :V	0.026 :Y	0.169 :Y	0.04 :Y
TRITIUM	-19.2: J:V	-17.3 :J:V	-97.2 :J:V	-51.100 :Y	-108.000 :Y	-18.30 :Y
URANIUM-233,-234	3.5 :V	1.361 :A	1.594 :V	1.769 :Y	1.184 :Y	1.503 :Y
URANIUM-235	0.168 :V	0.105 :A	0.086 :V	0.066 :Y	0.031 :Y	0.083 :Y
URANIUM-238	1.473 :V	1.908 :A	2.086 :V	1.65 :Y	1.426 :Y	1.592 :Y
SPATIAL RELATIONSHIP *	CO-LOCATED	110' SE	25' SE	25' NW	15' WSW	15' N

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS148 3C-13/SS306993/VP31194	IHSS117.3 and 152 K-13/SS308293	IHSS117.3 and 152 L-13/SS307993/VP31394	IHSS117.3 and 152 M-13/SS308393	IHSS117.3 and 152 N-13/SS308493/VP31494	IHSS117.3 and 152 5A-13/SS308493/VP31494
HPGe SURVEY (pCi/g)						
AMERICIUM-241	0	0.3	0.56	0.76	0.24	0.33
PLUTONIUM-239	0	0	0	0	0	0
THORIUM-232	1.1	1.18	1.11	1.12	0.99	0.98
URANIUM-238	1.9	2.7	2.2	2.4	2.2	1.8
URANIUM-235	0.09	0.09	0.08	0.06	0.04	0.07
HPGe 0-2" (pCi/g)						
TOTAL ACTIVITY	41.6		35.5		51.4	51.4
AMERICIUM-241	<0.374		<0.530		<0.677	<0.677
PLUTONIUM-239	<5.7E4		<5.35E4		<1.14E5	<1.14E5
THORIUM-234	5.15		<3.50		6.38	6.38
URANIUM-237	<0.137		<0.138		<0.181	<0.181
URANIUM-235	0.168		<0.169		<0.242	<0.242
HPGe 2-4" (pCi/g)						
TOTAL ACTIVITY	60.8		36		13.1	13.1
AMERICIUM-241	<0.274		<0.124		<0.304	<0.304
PLUTONIUM-239	<1.24E5		<7.07E4		<1.05E5	<1.05E5
THORIUM-234	6.08		2.96		<2.53	<2.53
URANIUM-237	<0.153		<0.098		<0.14	<0.14
URANIUM-235	0.222		<0.184		<0.17	<0.17
HPGe 4-6" (pCi/g)						
TOTAL ACTIVITY	50.6		41.9		22.2	22.2
AMERICIUM-241	<0.418		<0.212		<0.210	<0.210
PLUTONIUM-239	<7.56E4		<7.74E4		<8.45E4	<8.45E4
THORIUM-234	5.94		3.49		<1.56	<1.56
URANIUM-237	<0.130		<0.101		<0.037	<0.037
URANIUM-235	<0.180		<0.135		<0.130	<0.130
SOIL SAMPLE						
AMERICIUM-241	0.052 :Y	0.027 :Y	0.019 :Y	0.039 :Y	0.062 :Y	0.062 :Y
GROSS ALPHA	26.83 :Y	22.7 :Y	25.370 :Y	23.28 :Y	21.77:V	21.77:V
GROSS BETA	23.540 :Y	35.12 :Y	33.840 :Y	41.58 :Y	38.24:V	38.24:V
PLUTONIUM-239/240	34.200 :Y	0.169 :Y	0.099 :Y	0.087 :Y	0.385:V	0.385:V
TRITIUM	38.850 :Y	30.88 :Y	-53.100 :Y	34.74 :Y	124.5:J:V	124.5:J:V
URANIUM-233,-234	0.104 :Y	1.256 :Y	1.245 :Y	1.046 :Y	0.87:V	0.87:V
URANIUM-235	-9.65 :Y	0.044 :Y	0.032 :Y	0.039 :Y	0.028:V	0.028:V
URANIUM-238	1.609 :Y	1.329 :Y	1.311 :Y	1.239 :Y	0.935:V	0.935:V
SPATIAL RELATIONSHIP *	25' ENE	55' NNE	CO-LOCATED	75' WNW	45' SSE	100' S

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS117.3 and 152 5B-13/SS308493/VP31494	IHSS117.3 and 152 II-13/SS308793	IHSS117.3 and 152 JJ-13/SS308893	IHSS117.3 and 152 KK-13/SS308893	IHSS 117.1 and 197 A-13/SS309193	IHSS 117.1 and 197 B-13/SS309093	IHSS 117.1 and 197 C-13/SS309293
HPGe SURVEY (pCi/g)							
AMERICIUM-241	0.24	0.52	1.94	1.56	1.15	1.51	0.55
PLUTONIUM-239	0	0	0	0	0	0	0
THORIUM-232	1.12	1.15	1.23	1.08	1.39	1.08	1.5
URANIUM-238	1.8	2.1	2.5	3.8	2.2	2	2.8
URANIUM-235	0.05	0.06	0.08	0.09	0.08	0.12	0.09
HPGe 0-2" (pCi/g)							
TOTAL ACTIVITY	51.4						
AMERICIUM-241	<0.677						
PLUTONIUM-239	<1.14E5						
THORIUM-234	6.38						
URANIUM-237	<0.181						
URANIUM-235	<0.242						
HPGe 2-4" (pCi/g)							
TOTAL ACTIVITY	13.1						
AMERICIUM-241	<0.304						
PLUTONIUM-239	<1.05E5						
THORIUM-234	<2.53						
URANIUM-237	<0.14						
URANIUM-235	<0.17						
HPGe 4-6" (pCi/g)							
TOTAL ACTIVITY	22.2						
AMERICIUM-241	<0.210						
PLUTONIUM-239	<8.45E4						
THORIUM-234	<1.56						
URANIUM-237	<0.037						
URANIUM-235	<0.130						
SOIL SAMPLE							
AMERICIUM-241	0.062 :Y	0.002 :Y	0.023 :Y	0.023 :Y	0.019 :Y	<0.009 :Y	0.06 :Y
GROSS ALPHA	21.77:V	24.930 :Y	23.51 :Y	23.51 :Y	8.3 :Y	7.1 :Y	8.9 :Y
GROSS BETA	38.24:V	39.800 :Y	39.03 :Y	39.03 :Y	12.0 :Y	13.0 :Y	15.0 :Y
PLUTONIUM-239/240	0.385:V	0.018 :Y	0.093 :Y	0.093 :Y	0.13 :Y	0.027 :Y	0.43 :Y
TRITIUM	124.5:J:V	156.600 :Y	-66.600 :Y	-66.600 :Y	<29.0 :Y	<34.00 :Y	-17.0 :Y
URANIUM-233,-234	0.87:V	2.261 :Y	2.087 :Y	2.087 :Y	0.31 :Y	0.55 :Y	0.22 :Y
URANIUM-235	0.028:V	0.093 :Y	0.091 :Y	0.091 :Y	<0.022 :Y	<0.02 :Y	<0.027 :Y
URANIUM-238	0.935:V	1.815 :Y	1.952 :Y	1.952 :Y	0.39 :Y	0.50 :Y	0.39 :Y
SPATIAL RELATIONSHIP *	140' ESE	70' NE	70'NNE	140' WNW	CO-LOCATED	40' NNW	CO-LOCATED

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

IHSS or IHSS Group	IHSS 117.1 and 197 D-13/SS310293/VP31594	IHSS 117.1 and 197 E-13/SS310093/VP31694	IHSS 117.1 and 197 F-13R/SS309993/VP31794	IHSS 117.1 and 197 G-13/SS309893/VP31894	IHSS 117.1 and 197 H-13/SS310193
HPGe SURVEY (pCi/g)					
AMERICIUM-241	2.03	3.91	20.8	47.7	3.59
PLUTONIUM-239	0	0	0.6	0	0
THORIUM-232	0.94	1.05	1.43	1.18	1.6
URANIUM-238	2.1	2.1	2.7	2.7	2.5
URANIUM-235	0.07	0.08	0.08	0.08	0.08
HPGe 0-2" (pCi/g)					
TOTAL ACTIVITY	19.3	28.9	38.2	34.2	
AMERICIUM-241	<0.253	<0.280	<0.103	<0.350	
PLUTONIUM-239	<9.94E4	<7.03E4	<7.98E4	<1.3E5	
THORIUM-234	<2.16	<1.84	1.78	<2.07	
URANIUM-237	<0.091	<0.080	<0.084	<0.075	
URANIUM-235	<0.127	<0.123	0.168	<0.184	
HPGe 2-4" (pCi/g)					
TOTAL ACTIVITY	34.1	24.8	39.2	38.7	
AMERICIUM-241	<0.282	<0.384	<0.295	<0.129	
PLUTONIUM-239	<4.35E4	<5.33E4	<9.57E4	<5.89E4	
THORIUM-234	3.65	3.08	<2.72	2.23	
URANIUM-237	<0.104	<0.085	<0.133	<0.059	
URANIUM-235	<0.124	<0.138	<0.17	<0.134	
HPGe 4-6" (pCi/g)					
TOTAL ACTIVITY	35.2	6.26	26.1	43.1	
AMERICIUM-241	<0.433	<0.556	<0.255	<0.351	
PLUTONIUM-239	<8.07E4	<1.11E5	<9.92E4	<1.02E5	
THORIUM-234	3.37	<3.28	<2.61	3.57	
URANIUM-237	<0.102	<0.118	<0.107	<0.127	
URANIUM-235	0.189	<0.146	<0.142	<0.161	
SOIL SAMPLE					
AMERICIUM-241	0.038 :Y	<0.002 :Y	0.006:J:V	<0.005 :Y	0.013 :Y
GROSS ALPHA	3.8 :Y	4.5 :Y	3.8:J:A	5.300 :Y	6.700 :Y
GROSS BETA	11.0 :Y	10.0 :Y	8.1:J:A	16.000 :Y	12.00 :Y
PLUTONIUM-239/240	0.160 :Y	0.016 :Y	0.018:J:V	<0.001 :Y	0.017 :Y
TRITIUM	<130.00 :Y	-270.00 :Y	<-280:V	<-4.300 :Y	<-46.00 :Y
URANIUM-233,-234	0.38 :Y	0.49 :Y	0.32:V	0.280 :Y	0.43 :Y
URANIUM-235	<0.04 :Y	<0.042 :Y	<0.088:V	<0.036 :Y	<0.022 :Y
URANIUM-238	0.35 :Y	0.440 :Y	<0.34:V	0.250 :Y	0.48
SPATIAL RELATIONSHIP *	CO-LOCATED	5' SW	5' SE	CO-LOCATED	CO-LOCATED

TABLE 3-2
In Situ HPGe, Laboratory HPGe, and Radiochemical Laboratory Data Comparison

Notes:
A = laboratory qualifier considered acceptable
HPGe = high purity germanium
IHSS = Individual Hazardous Substance Site
J = estimated value
pCi/g = picocuries per gram
V = valid data
Y = not yet validated
Z = data not to be validated
' = feet
" = inches

* Distance and direction from HPGe survey location to laboratory sample site

TABLE 3-3
New Background Activities for Fallout Radionuclides and Supporting Data
(From Draft Background and Soils Characterization Program Report)
Rocky Flats Environmental Technology Site

Analyte	Distribution	Count (n)	% Nondetect	Min	Max	99/99 UTL	Mean	Standard Deviation	Units
Fallout Radionuclides									
Americium-241	Nonparametric	50	0	0.001	0.025	0.037	0.011	0.006	pCi/g
Cesium-134	Nonparametric	50	0	0.050	0.300	0.369	0.200	0.056	pCi/g
Cesium-137	Lognormal	50	0	0.300	1.700	2.250	0.941	0.372	pCi/g
Plutonium-239 & 240	Lognormal	50	0	0.017	0.072	0.084	0.038	0.014	pCi/g
Strontium-89/90	Lognormal	50	0	0.065	0.640	0.708	0.254	0.128	pCi/g
Supporting Data									
% Clay	Normal*	50	0	1.0	34.0	x	11.58	6.37	%
% Sand	Normal*	50	0	24.0	78.0	x	53.29	11.97	%
% Silt	Normal*	50	0	20.0	51.0	x	35.21	7.49	%
Soil Density	Normal*	50	0	0.8	1.2	x	0.94	0.78	g/cm^3
Total Organic Carbon	Normal*	50	0	1.4	6.1	x	3.66	1.24	%

Notes:

g/cm^3 = grams per cubic centimeter
Normal* = Distribution assumed normal for summary statistics of supporting data
pCi/g = picocuries per gram
UTL = Upper Tolerance Limit
X = Not calculated or not applicable

TABLE 3-4
Surface Soil Positive Results Data Summary Table
OU13 - IHSS 117.1
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
LITHIUM	100	**	**	**	**	2.1 B:J	SS310093 (1)
MOLYBDENUM	200	**	**	**	**	1.1 B:V	SS310093 (1)
STRONTIUM	200	**	**	**	**	8.2 B:J	SS310093 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	2650 :V	SS310093 (1)
ARSENIC	10	**	**	**	**	4 :V	SS309293 (1)
BARIUM	200	**	**	**	**	37.7 B:V	SS310093 (1)
BERYLLIUM	5	**	**	**	**	0.17 B:V	SS310093 (1)
CADMIUM	5	0.15	SS308993 (1)	0.15	SS308993 (1)	0.24 B:V	SS310193 (1)
CALCIUM	5000	**	**	**	**	1100 :V	SS310093 (1)
CHROMIUM	10	**	**	**	**	5.9 :J	SS310093 (1)
COBALT	50	**	**	**	**	2 B:V	SS310093 (1)
COPPER	25	**	**	**	**	16.6 :V	SS310193 (1)
IRON	100	**	**	**	**	4550 :V	SS310093 (1)
LEAD	3	**	**	**	**	9.9 :V	SS308993 (1)
MAGNESIUM	5000	**	**	**	**	670 B:V	SS310093 (1)
MANGANESE	15	**	**	**	**	70.7 :V	SS310093 (1)
MERCURY	0.2	0.05	SS309293 (3)	0.05	SS309293 (3)	0.05 B:V	SS310293 (1)
NICKEL	40	**	**	**	**	4.1 B:V	SS310093 (1)
POTASSIUM	5000	**	**	**	**	592 B:V	SS310093 (1)
SELENIUM	5	0.53	SS310093 (1)	0.58	SS309293 (1)	0.77 B:V	SS309393 (1)
SILVER	10	0.78	SS310093 (1)	0.78	SS310093 (1)	0.88 B:V	SS310293 (1)
SODIUM	5000	**	**	**	**	28.4 B:V	SS310093 (1)
VANADIUM	50	**	**	**	**	12 :V	SS310093 (1)
ZINC	20	**	**	**	**	46.7 :V	SS310193 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.01	0	SS310093 (1)	0.01	SS309093 (1)	0.008(.005) J:V	SS309393 (1)
GROSS ALPHA	3	**	**	**	**	3.8(2.2) J:A	SS310293 (1)
GROSS BETA	4	**	**	**	**	10(3.1) :A	SS310093 (1)
PLUTONIUM-239/240	0.006	**	**	**	**	0.016(.006) J:V	SS310093 (1)
URANIUM-233,-234	0.08	**	**	**	**	0.22(.092) J:V	SS309293 (1)
URANIUM-238	0.06	**	**	**	**	0.31(.084) :V	SS309393 (1)
Test Group:VOA8240 Units: µg/kg							
TOLUENE	5	5	SS308993 (6)	5	SS308993 (6)	2 J:A	SS309393 (2)

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no none detecteds reported

TABLE 3-4
Surface Soil Positive Results Data Summary Table
OU13 - IHSS 117.1
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
LITHIUM	8.8 B:J	SS309493 (1)	10	10	6.58
MOLYBDENUM	3.4 B:V	SS309193 (1)	10	10	2.64
STRONTIUM	29.8 B:J	SS309493 (1)	10	10	19.31
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	13200 :V	SS309093 (1)	10	10	9538
ARSENIC	8.3 :V	SS308993 (1)	10	10	6.85
BARIUM	356 :V	SS309293 (1)	10	10	110.15
BERYLLIUM	1.2 :V	SS309593 (1)	10	10	0.719
CADMIUM	2.7 :V	SS309193 (1)	9	10	1.0415
CALCIUM	7980 :V	SS309493 (1)	10	10	3461
CHROMIUM	20.6 :J	SS310293 (1)	10	10	14
COBALT	10 B:V	SS310193 (1)	10	10	6.5
COPPER	183 :V	SS309193 (1)	10	10	42.96
IRON	16500 :V	SS309093 (1)	10	10	13425
LEAD	75.9 :V	SS310293 (1)	10	10	28.79
MAGNESIUM	2830 :V	SS308993 (1)	10	10	1909
MANGANESE	835 :V	SS309293 (1)	10	10	262.57
MERCURY	.2 :V	SS309393 (1)	7	10	0.0795
NICKEL	15.1 :V	SS309093 (1)	10	10	11.3
POTASSIUM	1750 :V	SS309393 (2)	10	10	1500.2
SELENIUM	1.4 :V	SS309493 (1)	4	10	0.595
SILVER	10.1 :V	SS309193 (1)	9	10	1.875
SODIUM	125 B:V	SS310293 (1)	10	10	78.71
VANADIUM	39.3 :V	SS309493 (1)	10	10	28.65
ZINC	226 :V	SS310293 (1)	10	10	114.43
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.06(.013) :V	SS309293 (1)	5	8	0.0182
GROSS ALPHA	8.9(2.4) :A	SS309293 (1)	8	8	6.4625
GROSS BETA	15(3) :A	SS309293 (1)	8	8	12.25
PLUTONIUM-239/240	.43(.039) :V	SS309293 (1)	8	8	0.1077
URANIUM-233,-234	.55(.16) :V	SS309093 (1)	8	8	0.375
URANIUM-238	.54(.13) :V	SS308993 (1)	8	8	0.425
Test Group:VOA8240 Units: µg/kg					
TOLUENE	13 :V	SS309093 (1)	4	10	4

TABLE 3-5
Surface-Soil Positive Results Data Summary
OU13 - IHSS 197
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group:METADD Units: mg/kg								
LITHIUM	100	**	**	**	**	5 B:J	SS309693 (1)	7.2 B:J
MOLYBDENUM	200	**	**	**	**	1.4 B:V	SS309893 (1)	2.2 B:V
STRONTIUM	200	**	**	**	**	11.9 B:J	SS309893 (1)	39.5 B:J
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	**	**	**	**	4780 :V	SS309893 (1)	7890 :V
ARSENIC	10	**	**	**	**	2.4 :V	SS309893 (1)	5.3 :V
BARIUM	200	**	**	**	**	46.5 :V	SS309793 (1)	70.3 :V
BERYLLIUM	5	**	**	**	**	.18 B:V	SS309893 (1)	.46 B:V
CADMIUM	5	0.16	SS309893 (1)	0.18	SS309993 (1)	.59 B:V	SS309793 (1)	.95 B:V
CALCIUM	5000	**	**	**	**	1730 :V	SS309893 (1)	9690 :V
CHROMIUM	10	**	**	**	**	8.6 :J	SS309893 (1)	15.4 :J
COBALT	50	**	**	**	**	4 B:V	SS309793 (1)	16.4 :V
COPPER	25	**	**	**	**	10.9 :V	SS309893 (1)	56.3 :V
IRON	100	**	**	**	**	9090 :V	SS309893 (1)	15900 :V
LEAD	3	**	**	**	**	4.4 :V	SS309893 (1)	52.2 :V
MAGNESIUM	5000	**	**	**	**	1830 :V	SS309893 (1)	4770 :V
MANGANESE	15	**	**	**	**	168 :V	SS309693 (1)	335 :V
NICKEL	40	**	**	**	**	6.8 B:V	SS309893 (1)	11.7 :V
POTASSIUM	5000	**	**	**	**	1080 :V	SS309793 (1)	1520 :V
SELENIUM	5	0.54	SS309793 (1)	0.55	SS309893 (1)	.76 B:V	SS309693 (1)	.98 B:V
SILVER	10	**	**	**	**	.79 B:V	SS309693 (1)	20.8 :V
SODIUM	5000	**	**	**	**	87.9 B:V	SS309693 (1)	424 B:V
VANADIUM	50	**	**	**	**	12.8 :V	SS309893 (1)	29.4 :V
ZINC	20	**	**	**	**	25.8 :V	SS309893 (1)	416 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0.005	0	SS309893 (1)	0.01	SS309693 (1)	.006(.004) J:V	SS309993 (1)	.02(.009) :V
GROSS ALPHA	3	**	**	**	**	3.7(2.2) J:A	SS309793 (1)	6.8(2.5) :A
GROSS BETA	4	**	**	**	**	8.1(2.8) J:A	SS309993 (1)	16(3.1) :A
PLUTONIUM-239/240	0.005	0	SS309893 (1)	0	SS309893 (1)	.01(.005) BJ:V	SS309993 (1)	.045(.011) B:V
URANIUM-233,-234	0.1	**	**	**	**	.2(.091) J:V	SS309793 (1)	.35(.12) :V
URANIUM-238	0.09	**	**	**	**	.25(.1) J:V	SS309893 (1)	.36(.12) :V
Test Group:VOA8240 Units: µg/kg								
CHLOROFORM	5	5	SS309693 (2)	6	SS309993 (1)	2 J:A	SS309893 (1)	2 J:A

TABLE 3-5
Surface-Soil Positive Results Data Summary
OU13 - IHSS 197
Rocky Flats Environmental Technology Site

	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg				
LITHIUM	SS309993 (1)	4	4	5.8
MOLYBDENUM	SS309693 (2)	4	4	1.975
STRONTIUM	SS309993 (1)	4	4	18.95
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	SS309993 (1)	4	4	5945
ARSENIC	SS309993 (1)	4	4	3.7
BARIUM	SS309693 (1)	4	4	60
BERYLLIUM	SS309693 (1)	4	4	0.3125
CADMIUM	SS309693 (1)	2	4	0.4275
CALCIUM	SS309993 (1)	4	4	3890
CHROMIUM	SS309693 (1)	4	4	12.175
COBALT	SS309993 (1)	4	4	7.525
COPPER	SS309993 (1)	4	4	25.675
IRON	SS309993 (1)	4	4	11647.5
LEAD	SS309793 (1)	4	4	26.925
MAGNESIUM	SS309993 (1)	4	4	2667.5
MANGANESE	SS309993 (1)	4	4	218.25
NICKEL	SS309993 (1)	4	4	8.875
POTASSIUM	SS309893 (1)	4	4	1240
SELENIUM	SS309993 (1)	2	4	0.5712
SILVER	SS309993 (1)	4	4	5.8875
SODIUM	SS309993 (1)	4	4	208.9
VANADIUM	SS309993 (1)	4	4	20.325
ZINC	SS309793 (1)	4	4	158.25
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	SS309793 (1)	3	5	0.0102
GROSS ALPHA	SS309693 (1)	5	5	4.9
GROSS BETA	SS309893 (1)	5	5	12.42
PLUTONIUM-239/240	SS309793 (1)	4	5	0.0271
URANIUM-233,-234	SS309693 (1)	5	5	0.286
URANIUM-238	SS309693 (1)	5	5	0.316
Test Group:VOA8240 Units: µg/kg				
CHLOROFORM	SS309893 (1)	1	4	2.5

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no none detecteds reported

TABLE 3-6
Surface Soil Positive Results
OU13 - IHSS 117.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS308993 SSG1783JE 19-Jul-94	SS309093 SSG1784JE 18-Jul-94	SS309193 SSG1785JE 18-Jul-94	SS309293 SSG1786JE 19-Jul-94	SS309393 SSG1787JE 20-Jul-94	SS309493 SSG1788JE 19-Jul-94	SS309593 SSG1789JE 19-Jul-94
Test Group:METADD Units: mg/kg									
LITHIUM	100	0.00E 0 / 20.00E 0	7.9 B:JA	7.9 B:JA	6.3 B:JA	6.7 B:JA	7.5 B:JA	8.8 B:JA	6.4 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.4 B:V	3 B:V	3.4 B:V	2.5 B:V	2.9 B:V	2.9 B:V	2.6 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	20.4 B:JA	20.7 B:JA	17 B:JA	20.5 B:JA	17.4 B:JA	29.8 B:JA	20.1 B:JA
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	200	0.00E 0 / 21915.40E 0	12700 :V	13200 :V	8970 :V	7420 :V	11800 :V	12400 :V	9780 :V
ARSENIC	10	3.66E-1 / 12.90E 0	8.3 :V*	8.1 :V*	6.2 :V*	4 :V*	6.5 :V*	7.7 :V*	7.1 :V*
BARIUM	200	1.91E 4 / 528.00E 0	79.3 :V	83 :V	87.6 :V	356 :V	84.3 :V	99.7 :V	79.9 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.98 :V*	.99 B:V*	.63 B:V*	.46 B:V*	.78 B:V*	.92 B:V*	1.2 :V*
CADMIUM	5	1.37E 2 / 5.00E 0		1.6 :V	2.7 :V	1.2 :V	.96 B:V	.41 B:V	1.1 :V
CALCIUM	5000	0.00E 0 / 13573.30E 0	3210 :V	3600 :V	2880 :V	2690 :V	3130 :V	7980 :V	3410 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	11.8 :JA	15.7 :JA	18.5 :JA	11.3 :JA	13.3 :JA	16.9 :JA	13.4 :JA
COBALT	50	0.00E 0 / 24.80E 0	7.7 B:V-	6.4 B:V-	6.8 B:V-	7.2 B:V-	6.1 B:V-	6.9 B:V-	5.8 B:V-
COPPER	25	1.10E 4 / 27.30E 0	33.3 :V#	31.4 :V#	183 :V#	20.3 :V	23.7 :V	25.3 :V	20.9 :V
IRON	100	0.00E 0 / 28160.40E 0	14700 :V	16500 :V	15200 :V	12200 :V	14400 :V	16000 :V	13800 :V
LEAD	3	0.00E 0 / 61.40E 0	9.9 :V	17.2 :V	34 :V	36 :V	29.8 :V	19.8 :V	29.8 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2830 :V	2190 :V	1820 :V	2090 :V	2280 :V	2140 :V	1940 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	244 :V	185 :V	194 :V	835 :V	241 :V	215 :V	195 :V
MERCURY	0.2	8.23E 1 / 0.20E 0	.06 B:V	.06 B:V	.09 B:V		.2 :V#	.16 :V	
NICKEL	40	5.49E 3 / 26.90E 0	14 :V	15.1 :V	14.5 :V	10 :V	12.1 :V	13.9 :V	10.6 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1640 :V	1560 :V	1530 :V	1690 :V	1750 :V	1750 :V	1540 :V
SELENIUM	5	1.37E 3 / 1.40E 0	1.1 :V				.77 B:V	1.4 :V#	
SILVER	10	1.37E 3 / 10.00E 0	1.3 B:V	1.1 B:V	10.1 :V#	.92 B:V	1.2 B:V	.99 B:V	.92 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0	79.5 B:V	61.8 B:V	63.8 B:V	121 B:V	71.1 B:V	80.3 B:V	101 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	33.9 :V	36.6 :V	28.9 :V	21.9 :V	29.9 :V	39.3 :V	30.7 :V
ZINC	20	8.23E 4 / 86.60E 0	53.5 :V	109 :V#	203 :V#	103 :V#	85.8 :V	129 :V#	130 :V#
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2			.019(.009) J:V	.06(.013) :V	.008(.005) J:V		
GROSS ALPHA	0	0.00E 0 / 44.56E 0	5.5(2.5) :A	7.1(2.4) :A	8.3(2.7) :A	8.9(2.4) :A	6.9(2.7) :A		
GROSS BETA	0	0.00E 0 / 55.35E 0	11(2.9) :A	13(3.1) :A	12(2.8) :A	15(3) :A	14(2.9) :A		
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.034(.012) :V	.027(.008) BJ:V	.13(.022) :V	.43(.039) :V#	.048(.011) B:V		
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	.31(.11) :V	.55(.16) :V	.31(.11) :V	.22(.092) J:V	.31(.096) :V		
URANIUM-238	0	4.60E 1 / 19.12E-1	.54(.13) :V	.5(.14) :V	.39(.13) :V	.39(.11) :V	.31(.084) :V		
Test Group:VOA8240 Units: µg/kg									
TOLUENE	5	5.49E 4 / 0.00E 0		13 :V			2 J:A		

TABLE 3-6
Surface Soil Positive Results
OU13 - IHSS 117.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS310093 SSG1794JE 18-Jul-94	SS310193 SSG1795JE 20-Jul-94	SS310293 SSG1796JE 18-Jul-94
Test Group:METADD Units: mg/kg					
LITHIUM	100	0.00E 0 / 20.00E 0	2.1 B:JA	6.1 B:JA	6.1 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	1.1 B:V	2.5 B:V	3.1 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	8.2 B:JA	17.3 B:JA	21.7 B:JA
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	200	0.00E 0 / 21915.40E 0	2650 :V	7880 :V	8580 :V
ARSENIC	10	3.66E-1 / 12.90E 0	6.5 :V*	7.5 :V*	6.6 :V*
BARIUM	200	1.91E 4 / 528.00E 0	37.7 B:V	87 :V	107 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.17 B:V*	.5 B:V*	.56 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0	.33 B:V	.24 B:V	1.8 :V
CALCIUM	5000	0.00E 0 / 13573.30E 0	1100 :V	2480 :V	4130 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	5.9 :JA	12.6 :JA	20.6 :JA
COBALT	50	0.00E 0 / 24.80E 0	2 B:V-	10 B:V-	6.1 B:V-
COPPER	25	1.10E 4 / 27.30E 0	17.1 :V	16.6 :V	58 :V#
IRON	100	0.00E 0 / 28160.40E 0	4550 :V	11200 :V	15700 :V
LEAD	3	0.00E 0 / 61.40E 0	12.5 :V	23 :V	75.9 :V#
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	670 B:V	1280 :V	1850 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	70.7 :V	239 :V	207 :V
MERCURY	0.2	8.23E 1 / 0.20E 0		.1 B:V	.05 B:V
NICKEL	40	5.49E 3 / 26.90E 0	4.1 B:V	7.6 B:V	11.1 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	592 B:V	1420 :V	1530 :V
SELENIUM	5	1.37E 3 / 1.40E 0		.99 B:V	
SILVER	10	1.37E 3 / 10.00E 0		.95 B:V	.88 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0	28.4 B:V	55.2 B:V	125 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	12 :V	26.4 :V	26.9 :V
ZINC	20	8.23E 4 / 86.60E 0	58.3 :V	46.7 :V	226 :V#
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	0	2.37E 0 / 6.34E-2		.013(.01) J:V	.038(.01) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	4.5(1.8) :A	6.7(2.3) :A	3.8(2.2) J:A
GROSS BETA	0	0.00E 0 / 55.35E 0	10(3.1) :A	12(2.9) :A	11(2.8) :A
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.016(.006) J:V	.017(.008) J:V	.16(.023) :V#
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	.49(.15) :V	.43(.12) :V	.38(.12) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	.44(.13) :V	.48(.12) :V	.35(.1) :V
Test Group:VOA8240 Units: µg/kg					
TOLUENE	5	5.49E 4 / 0.00E 0		2 J:A	8 :JA

† DOE 1994b
‡ DOE 1994d

TABLE 3-7
Surface-Soil Positive Results
OU13 - IHSS 197
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS309693 SSG1790JE 14-Jul-94	SS309793 SSG1791JE 14-Jul-94	SS309793 SSG1836JE 14-Jul-94	SS309893 SSG1792JE 14-Jul-94	SS309993 SSG1793JE 14-Jul-94
Test Group:METADD Units: mg/kg							
LITHIUM	100	0.00E 0 / 20.00E 0	5 B:JA	4.7 B:JA	5.1 B:JA	5.9 B:JA	7.2 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.2 B:V	2.1 B:V	2.1 B:V	1.4 B:V	2.2 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	12 B:JA	12.1 B:JA	12.4 B:JA	11.9 B:JA	39.5 B:JA
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	0.00E 0 / 21915.40E 0	6070 :V	4650 :V	5040 :V	4780 :V	7890 :V
ARSENIC	10	3.66E-1 / 12.90E 0	4.5 :V*	2.6 :V*	2.5 :V*	2.4 :V*	5.3 :V*
BARIUM	200	1.91E 4 / 528.00E 0	70.3 :V	43.6 :V	46.5 :V	67.5 :V	55.7 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.46 B:V*	.26 B:V*	.27 B:V*	.18 B:V*	.34 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0	.95 B:V	.59 B:V	.57 B:V		
CALCIUM	5000	0.00E 0 / 13573.30E 0	2030 :V	1910 :V	2110 :V	1730 :V	9690 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	15.4 :JA	12.9 :JA	15.3 :JA	8.6 :JA	9.4 :JA
COBALT	50	0.00E 0 / 24.80E 0	4.6 B:V-	4 B:V-	4 B:V-	5.1 B:V-	16.4 :V-
COPPER	25	1.10E 4 / 27.30E 0	16.9 :V	18.6 :V	17.3 :V	10.9 :V	56.3 :V#
IRON	100	0.00E 0 / 28160.40E 0	10900 :V	9680 :V	10700 :V	9090 :V	15900 :V
LEAD	3	0.00E 0 / 61.40E 0	40.1 :V	37.2 :V	52.2 :V	4.4 :V	11 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1940 :V	2040 :V	2130 :V	1830 :V	4770 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	168 :V	176 :V	187 :V	183 :V	335 :V
NICKEL	40	5.49E 3 / 26.90E 0	8.4 :V	8.6 :V	8.6 :V	6.8 B:V	11.7 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1170 :V	1050 :V	1080 :V	1520 :V	1190 :V
SELENIUM	5	1.37E 3 / 1.40E 0	.76 B:V				.98 B:V
SILVER	10	1.37E 3 / 10.00E 0	.79 B:V		.96 B:V	1 B:V	20.8 :V#
SODIUM	5000	0.00E 0 / 1108.00E 0	87.9 B:V	176 B:V	232 B:V	91.7 B:V	424 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	20.3 :V	17.6 :V	18.8 :V	12.8 :V	29.4 :V
ZINC	20	8.23E 4 / 86.60E 0	141 :V#	395 :V#	416 :V#	25.8 :V	50.2 :V
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0	2.37E 0 / 6.34E-2		.02(.009) :V	.016(.008) J:V		.006(.004) J:V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	6.8(2.5) :A	4.9(2.1) :A	3.7(2.2) J:A	5.3(2.2) :A	3.8(2.2) J:A
GROSS BETA	0	0.00E 0 / 55.35E 0	13(2.8) :A	12(2.9) :A	13(3) :A	16(3.1) :A	8.1(2.8) J:A
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.036(.008) B:V	.044(.009) B:V	.045(.011) B:V		.01(.005) BJ:V
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	.35(.12) :V	.28(.1) J:V	.2(.091) J:V	.28(.12) J:V	.32(.15) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	.36(.12) :V	.34(.1) :V	.29(.11) J:V	.25(.1) J:V	.34(.13) :V
Test Group:VOA8240 Units: µg/kg							
CHLOROFORM	0	1.05E 2 / 0.00E 0				2 J:A	

† DOE 1994b
‡ DOE 1994d

TABLE 3-8
Surface Soil Positive Results Data Summary
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
CESIUM	1000	4.1	SS300193 (2)	8.4	SS300293 (1)	4 B:J	SS305993 (1)
LITHIUM	100	**	**	**	**	3 B:J	SS306393 (1)
MOLYBDENUM	200	0.59	SS300193 (1)	2.7	SS305993 (1)	1.1 B:V	SS306393 (1)
STRONTIUM	200	**	**	**	**	7.8 B:J	SS306293 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	3400 :V	SS306093 (1)
ARSENIC	10	**	**	**	**	2.3 :V	SS306693 (1)
BARIUM	200	**	**	**	**	32.4 B:V	SS306293 (1)
BERYLLIUM	5	0.46	SS305993 (1)	0.5	SS305893 (1)	.16 B:V	SS306693 (1)
CADMIUM	5	0.17	SS306093 (3)	1.1	SS306193 (1)	.33 B:J	SS305993 (1)
CALCIUM	5000	**	**	**	**	1420 :V	SS306393 (1)
CHROMIUM	10	**	**	**	**	5.3 :V	SS306093 (1)
COBALT	50	3.7	SS306393 (1)	3.7	SS306393 (1)	2.9 B:V	SS306293 (1)
COPPER	25	11.5	SS300293 (1)	12.7	SS300193 (1)	10.4 :V	SS306393 (1)
IRON	100	**	**	**	**	7270 :V	SS306093 (1)
LEAD	3	**	**	**	**	4.2 :J	SS306393 (1)
MAGNESIUM	5000	**	**	**	**	994 B:V	SS306393 (1)
MANGANESE	15	**	**	**	**	112 :V	SS306393 (1)
MERCURY	0.2	0.05	SS306593 (1)	0.05	SS305993 (2)	.06 :V	SS306193 (1)
NICKEL	40	6.3	SS306293 (1)	6.3	SS306293 (1)	7.1 B:V	SS306693 (1)
POTASSIUM	5000	**	**	**	**	661 B:V	SS306393 (1)
SELENIUM	5	0.54	SS306293 (1)	0.6	SS306393 (1)	.63 B:V	SS306193 (1)
SILVER	10	0.79	SS306293 (1)	1.6	SS300193 (1)	.78 B:V	SS305893 (1)
SODIUM	5000	49.4	SS306593 (1)	83.5	SS306493 (1)	51.1 B:V	SS306093 (1)
VANADIUM	50	**	**	**	**	13.3 :V	SS306293 (1)
ZINC	20	**	**	**	**	19.2 :V	SS306393 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.007	**	**	**	**	.002(.004) J:V	SS306093 (1)
CESIUM-134	0.027	**	**	**	**	.005(.014) J:V	SS300193 (1)
CESIUM-137	0.026	**	**	**	**	.042(.018) :V	SS300193 (1)
GROSS ALPHA	3.44	**	**	**	**	13.71(4.13) :V	SS300293 (1)
GROSS BETA	2.69	**	**	**	**	28.18(3.32) :V	SS306393 (1)
PLUTONIUM-239/240	0.003	**	**	**	**	-.001(.001) J:V	SS306393 (1)
RADIUM-226	0.428	**	**	**	**	1.481(.49) X:A	SS300193 (1)
RADIUM-228	0.107	**	**	**	**	1.735(.226) X:V	SS300193 (1)
STRONTIUM-89,90	0.057	**	**	**	**	.102(.042) :V	SS300293 (1)
TRITIUM	254	**	**	**	**	-168(204) J:V	SS306693 (1)
URANIUM-233,-234	0.052	**	**	**	**	.73(.14) :V	SS306593 (1)
URANIUM-235	0.047	**	**	**	**	.022(.029) J:V	SS306693 (1)
URANIUM-238	0.023	**	**	**	**	.85(.189) :V	SS306093 (1)

TABLE 3-8
Surface Soil Positive Results Data Summary
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
CESIUM	5.9 B:J	SS305893 (1)	2	11	3.1364
LITHIUM	9.6 :J	SS300293 (1)	11	11	5.8
MOLYBDENUM	6.3 B:V	SS306493 (1)	7	11	2.0855
STRONTIUM	23.6 :J	SS300293 (1)	11	11	14.4182
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	17800 :V	SS300293 (1)	11	11	7499.091
ARSENIC	8.4 :V	SS300293 (1)	11	11	4.7
BARIUM	95.7 :V	SS305893 (1)	11	11	62.9727
BERYLLIUM	1.1 :V	SS300293 (1)	9	11	0.4582
CADMIUM	.42 B:V	SS306493 (1)	3	11	0.24
CALCIUM	10400 :J	SS300293 (1)	11	11	3526.364
CHROMIUM	34.2 :J	SS306493 (1)	11	11	14.3364
COBALT	13 :V	SS306093 (1)	10	11	6.0682
COPPER	25.2 :V	SS306193 (1)	9	11	15.4182
IRON	15500 :V	SS306193 (1)	11	11	11360
LEAD	62.8 :V	SS306193 (1)	11	11	26.2182
MAGNESIUM	3150 :V	SS306193 (1)	11	11	1844
MANGANESE	352 :V	SS305893 (1)	11	11	177.3636
MERCURY	.1 :V	SS300193 (1)	4	11	0.0456
NICKEL	28 :V	SS306493 (1)	10	11	13.0409
POTASSIUM	1900 :V	SS306193 (1)	11	11	1161.182
SELENIUM	.79 B:V	SS305993 (1)	3	11	0.4027
SILVER	8.8 :V	SS306093 (1)	3	11	1.3668
SODIUM	273 B:V	SS305893 (1)	8	11	142.8227
VANADIUM	36.6 :V	SS300293 (1)	11	11	22.9455
ZINC	497 :V	SS306493 (1)	11	11	168.4636
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.169(.031) :V	SS305893 (1)	12	12	0.0621
CESIUM-134	.01(.016) J:V	SS300293 (1)	2	2	0.0075
CESIUM-137	.069(.031) X:V	SS300293 (1)	2	2	0.0555
GROSS ALPHA	33.9(6.8) :V	SS305993 (1)	12	12	21.0492
GROSS BETA	50.12(4.78) :V	SS300293 (1)	12	12	39.6667
PLUTONIUM-239/240	.225(.043) :V	SS305893 (1)	10	10	0.1002
RADIUM-226	1.775(.474) X:A	SS300293 (1)	2	2	1.628
RADIUM-228	2.141(.269) X:V	SS300293 (1)	2	2	1.938
STRONTIUM-89,90	.148(.053) :V	SS300193 (1)	2	2	0.125
TRITIUM	168(221) J:VV	SS306393 (1)	12	12	-13.7673
URANIUM-233,-234	1.722(.323) :V	SS305993 (1)	12	12	1.167
URANIUM-235	.087(.059) :V	SS305993 (1)	12	12	0.049
URANIUM-238	1.595(.308) :V	SS306193 (1)	12	12	1.25

TABLE 3-8
Surface Soil Positive Results Data Summary
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
CESIUM	1000	4.4	SS300193 (1)	6.7	SS300293 (1)		
LITHIUM	100	**	**	**	**	5.1 :J	SS300293 (1)
MOLYBDENUM	20	0.59	SS300193 (1)	0.95	SS300293 (1)		
STRONTIUM	200	**	**	**	**	11.7 :J	SS300293 (1)
TIN	200	1.8	SS300193 (1)	1.9	SS300293 (1)		
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	6190 :V	SS300293 (1)
ANTIMONY	60	**	**	**	**		
ARSENIC	10	**	**	**	**	3 :V	SS300193 (1)
BARIUM	200	**	**	**	**	44.1 :V	SS300293 (1)
BERYLLIUM	5	**	**	**	**	.39 :V	SS300293 (1)
CADMIUM	5	0.37	SS300193 (1)	0.38	SS300293 (1)		
CALCIUM	5000	**	**	**	**	2330 :J	SS300193 (1)
CHROMIUM	10	**	**	**	**	8.6 :V	SS300293 (1)
COBALT	50	**	**	**	**	16.4 :V	SS300293 (1)
COPPER	25	14.2	SS300293 (1)	22.6	SS300193 (1)		
IRON	100	**	**	**	**	8550 :V	SS300193 (1)
LEAD	3	**	**	**	**	6 :V	SS300293 (1)
MAGNESIUM	5000	**	**	**	**	1590 :V	SS300293 (1)
MANGANESE	15	**	**	**	**	73 :J	SS300293 (1)
MERCURY	0.2	0.05	SS300293 (1)	0.05	SS300193 (1)		
NICKEL	40	**	**	**	**	7.6 :V	SS300293 (1)
POTASSIUM	5000	**	**	**	**	1060 :V	SS300293 (1)
SELENIUM	5	0.62	SS300193 (1)	0.63	SS300293 (1)		
SILVER	10	2.6	SS300293 (1)	2.6	SS300293 (1)	9.5 :V	SS300193 (1)
SODIUM	5000	**	**	**	**	149 :V	SS300293 (1)
THALLIUM	10	0.81	SS300193 (1)	0.83	SS300293 (1)		
VANADIUM	50	**	**	**	**	16.3 :V	SS300193 (1)
ZINC	20	**	**	**	**	23.1 :V	SS300293 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.002	**	**	**	**	.000351(.003) J:V	SS300193 (1)
CESIUM-134	0.026	**	**	**	**	-.012(.017) J:VV	SS300293 (1)
CESIUM-137	0.026	**	**	**	**	-.006(.016) J:V	SS300293 (1)
GROSS ALPHA	2.28	**	**	**	**	5.248(2.54) :V	SS300193 (1)
GROSS BETA	2.01	**	**	**	**	20.77(2.77) :V	SS300193 (1)
PLUTONIUM-239/240	0.009	**	**	**	**	(.004) J:V:V	SS300293 (1)
RADIUM-226	0.438	**	**	**	**	1.056(.46) X:A	SS300293 (1)
RADIUM-228	0.113	**	**	**	**	1.241(.191) X:V	SS300193 (1)
STRONTIUM-89,90	0.064	**	**	**	**	.154(.055) :V	SS300293 (1)
TRITIUM	227	**	**	**	**	-2.78(202) J:V	SS300193 (1)
URANIUM-233,-234	0.087	**	**	**	**	.607(.221) :V	SS300193 (1)
URANIUM-235	0.095	**	**	**	**	.029(.047) J:V	SS300193 (1)
URANIUM-238	0.087	**	**	**	**	.573(.226) :V	SS300293 (1)

TABLE 3-8
Surface Soil Positive Results Data Summary
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
CESIUM			0	2	0
LITHIUM	5.5 :J	SS300193 (1)	2	2	5.3
MOLYBDENUM			0	2	0
STRONTIUM	13.6 :J	SS300193 (1)	2	2	12.65
TIN			0	2	0
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	6350 :V	SS300193 (1)	2	2	6270
ANTIMONY			0	0	0
ARSENIC	3.9 :V	SS300293 (1)	2	2	3.45
BARIUM	50.8 :V	SS300193 (1)	2	2	47.45
BERYLLIUM	.47 :V	SS300193 (1)	2	2	0.43
CADMIUM			0	2	0
CALCIUM	2340 :J	SS300293 (1)	2	2	2335
CHROMIUM	9 :V	SS300193 (1)	2	2	8.8
COBALT	18.7 :V	SS300193 (1)	2	2	17.55
COPPER			0	2	0
IRON	8810 :V	SS300293 (1)	2	2	8680
LEAD	6.5 :V	SS300193 (1)	2	2	6.25
MAGNESIUM	1780 :V	SS300193 (1)	2	2	1685
MANGANESE	83.2 :J	SS300193 (1)	2	2	78.1
MERCURY			0	2	0
NICKEL	11.8 :V	SS300193 (1)	2	2	9.7
POTASSIUM	1190 :V	SS300193 (1)	2	2	1125
SELENIUM			0	2	0
SILVER	9.5 :V	SS300193 (1)	1	2	5.4
SODIUM	168 :V	SS300193 (1)	2	2	158.5
THALLIUM			0	2	0
VANADIUM	17.5 :V	SS300293 (1)	2	2	16.9
ZINC	34.2 :V	SS300193 (1)	2	2	28.65
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.004(.004) :VV	SS300293 (1)	2	2	0.0022
CESIUM-134	.000372(.016) J:V	SS300193 (1)	2	2	-0.0058
CESIUM-137	.019(.017) J:V	SS300193 (1)	2	2	0.0065
GROSS ALPHA	10.94(3.51) :V	SS300293 (1)	2	2	8.094
GROSS BETA	25.39(3.07) :V	SS300293 (1)	2	2	23.08
PLUTONIUM-239/240	.002(.004) J:V	SS300193 (1)	2	2	0.001
RADIUM-226	1.338(.513) X:A	SS300193 (1)	2	2	1.197
RADIUM-228	2.161(.272) X:V	SS300293 (1)	2	2	1.701
STRONTIUM-89,90	.154(.055) :V	SS300293 (1)	1	1	0.154
TRITIUM	88.92(206) J:V	SS300293 (1)	2	2	43.07
URANIUM-233,-234	.648(.242) :V	SS300293 (1)	2	2	0.6275
URANIUM-235	.047(.066) J:V	SS300293 (1)	2	2	0.038
URANIUM-238	.684(.235) :V	SS300193 (1)	2	2	0.6285

TABLE 3-8
Surface Soil Positive Results Data Summary
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no nondetects reported

TABLE 3-9
Surface-Soil Positive Results Data Summary
OU13 - IHSS 158
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
CESIUM	1000	3.3	SS303893 (1)	3.3	SS303893 (1)	4.1 B:J	SS303693 (2)
LITHIUM	100	**	**	**	**	3.4 B:J	SS304293 (1)
MOLYBDENUM	200	0.69	SS304293 (1)	2.7	SS304193 (1)	5.1 B:V	SS303993 (1)
STRONTIUM	200	**	**	**	**	5.8 B:J	SS303793 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	3080 :V	SS304293 (1)
ARSENIC	10	**	**	**	**	1.7 B:V	SS303893 (1)
BARIUM	200	**	**	**	**	38.1 B:V	SS304293 (1)
BERYLLIUM	5	0.26	SS303693 (1)	0.55	SS304693 (1)	.79 B:V	SS304193 (1)
CADMIUM	5	0.15	SS303793 (1)	0.17	SS303993 (2)	.25 B:J	SS304393 (1)
CALCIUM	5000	**	**	**	**	1090 :V	SS303893 (1)
CHROMIUM	10	**	**	**	**	5.9 :V	SS304293 (1)
COBALT	50	**	**	**	**	2.5 B:V	SS304293 (1)
COPPER	25	**	**	**	**	9.1 :V	SS304293 (1)
IRON	100	**	**	**	**	5100 :V	SS304293 (1)
LEAD	3	**	**	**	**	6.7 :V	SS303893 (1)
MAGNESIUM	5000	**	**	**	**	1080 :V	SS304293 (1)
MANGANESE	15	**	**	**	**	92.5 :V	SS304293 (1)
NICKEL	40	4.6	SS304293 (1)	10.9	SS304693 (1)	13.3 :V	SS304393 (1)
POTASSIUM	5000	**	**	**	**	727 B:V	SS304293 (1)
SELENIUM	5	0.54	SS303793 (1)	0.6	SS303993 (1)	.6 B:V	SS304093 (1)
SILVER	10	0.79	SS303793 (1)	0.88	SS303993 (1)	.9 B:V	SS304393 (1)
SODIUM	5000	54.2	SS304393 (1)	111	SS304493 (1)	116 B:V	SS303793 (1)
VANADIUM	50	**	**	**	**	9.4 B:V	SS304293 (1)
ZINC	20	**	**	**	**	27.2 :V	SS303793 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.007	**	**	**	**	.008(.006) :V	SS303793 (1)
GROSS ALPHA	3.8	**	**	**	**	16.72(4.66) :V	SS303993 (1)
GROSS BETA	3.76	**	**	**	**	33.12(3.63) :V	SS303993 (1)
PLUTONIUM-239/240	0.029	**	**	**	**	(.012) J:V:V	SS304693 (1)
TRITIUM	247	**	**	**	**	-86.6(200) J:V	SS304593 (1)
URANIUM-233,-234	0.041	**	**	**	**	.914(.213) :V	SS304393 (1)
URANIUM-235	0.041	**	**	**	**	.025(.032) J:V	SS304593 (1)
URANIUM-238	0.034	**	**	**	**	.863(.205) :V	SS304393 (1)

TABLE 3-9
Surface-Soil Positive Results Data Summary
OU13 - IHSS 158
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
CESIUM	6.4 B:J	SS303993 (2)	10	11	4.8318
LITHIUM	9.1 B:J	SS304393 (1)	11	11	5.9091
MOLYBDENUM	5.1 B:V	SS303993 (1)	1	11	1.3677
STRONTIUM	30.5 B:J	SS303993 (1)	11	11	12.8
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	12500 :V	SS304393 (1)	11	11	6618.182
ARSENIC	8.5 :V	SS304193 (1)	11	11	3.8273
BARIUM	111 :V	SS304393 (1)	11	11	63.6455
BERYLLIUM	1.7 :V	SS304393 (1)	3	11	0.4336
CADMIUM	.52 B:J	SS304193 (1)	2	8	0.1569
CALCIUM	19000 :V	SS303993 (1)	11	11	3841.818
CHROMIUM	102 :V	SS303993 (1)	11	11	18.9727
COBALT	29.9 :V	SS303993 (1)	11	11	9.1455
COPPER	287 :V	SS304593 (1)	11	11	45.6545
IRON	15700 :V	SS304193 (1)	11	11	10510.91
LEAD	78.8 :V	SS304093 (1)	11	11	23.3091
MAGNESIUM	2770 :V	SS304393 (1)	11	11	1917.273
MANGANESE	261 :V	SS304393 (1)	11	11	158.7727
NICKEL	97.6 :V	SS303993 (1)	3	11	14.1773
POTASSIUM	2060 :V	SS304393 (1)	11	11	1380.636
SELENIUM	.75 B:V	SS304393 (1)	4	11	0.425
SILVER	1.9 B:V	SS303693 (1)	3	11	0.6595
SODIUM	173 B:V	SS304693 (1)	4	11	76.9864
VANADIUM	34.8 :V	SS304193 (1)	11	11	21.0455
ZINC	1080 :V	SS304493 (1)	11	11	213.7818
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.254(.039) :V	SS304193 (1)	12	12	0.0686
GROSS ALPHA	32.28(6.59) :V	SS303693 (1)	12	12	23.9225
GROSS BETA	50.64(5.92) :V	SS303693 (1)	12	12	41.0733
PLUTONIUM-239/240	.642(.113) :V	SS304593 (1)	12	12	0.1192
TRITIUM	184.6(212) J:V	SS304293 (1)	12	12	14.2143
URANIUM-233,-234	1.846(.339) :V	SS303793 (1)	12	12	1.3406
URANIUM-235	.372(.125) :V	SS304393 (1)	12	12	0.092
URANIUM-238	4.132(.621) :V	SS304193 (1)	12	12	1.5422

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = Indicated compound exceeds PRG
** = All samples reported with positive results; no none detected reported

TABLE 3-10
Surface-Soil Positive Results
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS300193 SSG1694JE 22-Dec-93	SS300293 SSG1695JE 23-Dec-93	SS305893 SSG1752JE 28-Jun-94	SS305893 SSG1824JE 28-Jun-94	SS305993 SSG1753JE 28-Jun-94	SS306093 SSG1754JE 29-Jun-94
Test Group:METADD Units: mg/kg								
CESIUM	1000	0.00E 0 / 630.80E 0			5.9 B:JA	3.8 B:JA	4 B:JA	
LITHIUM	100	0.00E 0 / 20.00E 0	8.9 :JA	9.6 :JA	6.5 B:JA	6.9 B:JA	7.6 B:JA	3.1 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0						1.8 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	21 :JA	23.6 :JA	15.2 B:JA	16.7 B:JA	16.4 B:JA	10 B:JA
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	0.00E 0 / 21915.40E 0	16300 :V	17800 :V	7590 :V	7910 :V	6600 :V	3400 :V
ARSENIC	10	3.66E-1 / 12.90E 0	7.5 :V*	8.4 :V*	4.6 :V*	4.6 :V*	3.6 :V*	4.3 :V*
BARIUM	200	1.91E 4 / 528.00E 0	83.9 :V	87.1 :V	52.7 :V	95.7 :V	69 :V	47.7 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.96 :V*	1.1 :V*				.27 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0				.35 B:JA	.33 B:JA	
CALCIUM	5000	0.00E 0 / 13573.30E 0	7230 :JA	10400 :JA	2850 :V	3020 :V	2720 :V	1980 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	15.6 :V	16.1 :V	18.4 :V	19.3 :V	15.4 :V	5.3 :V
COBALT	50	0.00E 0 / 24.80E 0	7.5 :V-	6.8 :V-	4.6 B:V-	5.5 B:V-	5 B:V-	13 :V-
COPPER	25	1.10E 4 / 27.30E 0			21.5 :V	22 :V	20.4 :V	18.8 :V
IRON	100	0.00E 0 / 28160.40E 0	13800 :V	14700 :V	12500 :V	13300 :V	14100 :V	7270 :V
LEAD	3	0.00E 0 / 61.40E 0	15.4 :V	17.6 :V	47.9 :V	55.5 :V	41.5 :V	5.1 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1930 :V	2130 :V	2580 :V	2750 :V	2610 :V	1090 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	132 :JA	133 :JA	191 :V	352 :V	208 :V	135 :V
MERCURY	0.2	8.23E 1 / 0.20E 0	.1 :V	.096 :V	.07 B:V	.052 B:V		
NICKEL	40	5.49E 3 / 26.90E 0	21.6 :V	19.1 :V	12.7 :V	12.8 :V	11.9 :V	7.4 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1480 :V	1530 :V	1230 :V	1340 :V	1530 :V	696 B:V
SELENIUM	5	1.37E 3 / 1.40E 0				.72 B:V	.79 B:V	
SILVER	10	1.37E 3 / 10.00E 0				.78 B:V		8.8 :V
SODIUM	5000	0.00E 0 / 1108.00E 0	242 :V	195 :V	252 B:V	273 B:V	221 B:V	51.1 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	34 :V	36.6 :V	23.9 :V	26.2 :V	22.7 :V	15.8 :V
ZINC	20	8.23E 4 / 86.60E 0	33.2 :V	32.5 :V	240 :V#	257 :V#	296 :V#	26.3 :JA
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.014(.007) :V	.021(.009) :V	.092(.03) :V#	.169(.031) :V#	.132(.029) :V#	.002(.004) J:V
CESIUM-134	0	0.00E 0 / 0.00E 0	.005(.014) J:V-	.01(.016) J:V-				
CESIUM-137	0	2.83E 1 / 3.68E 0	.042(.018) :V	.069(.031) X:V				
GROSS ALPHA	0	0.00E 0 / 44.56E 0	16.93(4.49) :V	13.71(4.13) :V	19.37(4.82) :V	22.82(5.37) :V	33.9(6.8) :V	19.61(4.85) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	30.33(3.42) :V	50.12(4.78) :V	42.04(4.23) :V	40.46(4.11) :V	47.17(4.6) :V	35.78(3.78) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.033(.014) :V	.067(.02) :V	.213(.048) :V#	.225(.043) :V#	.09(.037) :V	
RADIUM-226	0	2.28E 0 / 15.87E-1	1.481(.49) X:A*	1.775(.474) X:A*#				
RADIUM-228	0	7.93E 0 / 49.98E-1	1.735(.226) X:V*	2.141(.269) X:V*				
STRONTIUM-89,90	0	2.40E 0 / 22.39E-1	.148(.053) :V	.102(.042) :V				
TRITIUM	0	0.00E 0 / 545.96E 0	79.67(206) J:V-	-30.6(200) J:V-	-1.93(206) J:V-	-117(200) J:V-	-27.1(205) J:V-	-32.8(211) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	.976(.307) :V	1.315(.361) :V	1.535(.253) :V	1.231(.245) :V	1.722(.323) :V	.939(.201) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.032(.052) J:V	.033(.05) J:V	.049(.037) :V	.049(.043) J:V	.087(.059) :V	.029(.035) J:V
URANIUM-238	0	4.60E 1 / 19.12E-1	.874(.286) :V	1.264(.351) :V	1.379(.234) :V	1.443(.274) :V	1.537(.297) :V	.85(.189) :V

TABLE 3-10
Surface-Soil Positive Results
OU13 - IHSS 117.2
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS306193 SSG1755JE 29-Jun-94	SS306293 SSG1756JE 29-Jun-94	SS306393 SSG1757JE 30-Jun-94	SS306493 SSG1758JE 30-Jun-94	SS306593 SSG1759JE 30-Jun-94	SS306693 SSG1760JE 29-Jun-94
Test Group:METADD Units: mg/kg								
CESIUM	1000	0.00E 0 / 630.80E 0						
LITHIUM	100	0.00E 0 / 20.00E 0	8.8 B:JA	3.5 B:JA	3 B:JA	5.1 B:JA	3.7 B:JA	3.6 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	4.1 B:V	1.9 B:V	1.1 B:V	6.3 B:V	1.5 B:V	2.9 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	19.6 B:JA	7.8 B:JA	9.7 B:JA	12.8 B:JA	11 B:JA	10 B:JA
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	0.00E 0 / 21915.40E 0	10000 :V	3640 :V	3610 :V	5490 :V	4290 :V	3450 :V
ARSENIC	10	3.66E-1 / 12.90E 0	5.8 :V*	2.7 :V*	4.3 :V*	3.4 :V*	4.8 :V*	2.3 :V*
BARIUM	200	1.91E 4 / 528.00E 0	89 :V	32.4 B:V	46.9 :V	59.9 :V	48 :V	33.1 B:V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.6 B:V*	.22 B:V*	.37 B:V*	.39 B:V*	.49 B:V*	.16 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0				.42 B:V		
CALCIUM	5000	0.00E 0 / 13573.30E 0	3270 :V	1630 :V	1420 :V	3250 :V	2010 :V	1860 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	18.9 :V	8.2 :V	6.2 :JA	34.2 :JA#	6.8 :JA	11.7 :V
COBALT	50	0.00E 0 / 24.80E 0	7 B:V-	2.9 B:V-		4.4 B:V-	9.7 B:V-	3.1 B:V-
COPPER	25	1.10E 4 / 27.30E 0	25.2 :V	12.2 :V	10.4 :V	21 :V	13.1 :V	14.4 :V
IRON	100	0.00E 0 / 28160.40E 0	15500 :V	7390 :V	8630 :V	12000 :V	9860 :V	8410 :V
LEAD	3	0.00E 0 / 61.40E 0	62.8 :V#	21.4 :V	4.2 :JA	24.9 :JA	8.8 :JA	31.2 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	3150 :V	1150 :V	994 B:V	1680 :V	1170 :V	1630 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	244 :V	129 :V	112 :V	185 :V	180 :V	141 :V
MERCURY	0.2	8.23E 1 / 0.20E 0	.06 :V					
NICKEL	40	5.49E 3 / 26.90E 0	15.5 :V		7.5 B:V	28 :V#	9.4 :V	7.1 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1900 :V	670 B:V	661 B:V	1210 :V	820 B:V	936 B:V
SELENIUM	5	1.37E 3 / 1.40E 0	.63 B:V					
SILVER	10	1.37E 3 / 10.00E 0	1.7 B:V					
SODIUM	5000	0.00E 0 / 1108.00E 0	197 B:V	128 B:V				172 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	31.1 :V	13.3 :V	18.4 :V	17.6 :V	22.4 :V	14.3 :V
ZINC	20	8.23E 4 / 86.60E 0	322 :JA#	202 :JA#	19.2 :V	497 :V#	23.9 :V	144 :JA#
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.067(.019) :V#	.116(.025) :V#	.005(.005) J:V	.06(.016) :V	.006(.005) J:V	.061(.017) :V
CESIUM-134	0	0.00E 0 / 0.00E 0						
CESIUM-137	0	2.83E 1 / 3.68E 0						
GROSS ALPHA	0	0.00E 0 / 44.56E 0	24.74(5.73) :V	22.82(5.37) :V	17.77(4.75) :V	24.33(5.6) :V	20.11(5.12) :V	16.48(4.49) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	41.9(4.2) :V	44.35(4.37) :V	28.18(3.32) :V	40.26(4.12) :V	30.99(3.48) :V	44.42(4.39) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2		.077(.026) :V	-.001(.001) J:V	.177(.045) :V#	.01(.007) :V	.111(.026) :V
RADIUM-226	0	2.28E 0 / 15.87E-1						
RADIUM-228	0	7.93E 0 / 49.98E-1						
STRONTIUM-89,90	0	2.40E 0 / 22.39E-1						
TRITIUM	0	0.00E 0 / 545.96E 0	15.77(200) J:V-	-68.6(209) J:V-	168(221) J:V-	3.863(213) J:V-	13.52(213) J:V-	-168(204) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.599(.309) :V	1.184(.204) :V	.815(.154) :V	1.024(.191) :V	.73(.14) :V	.934(.209) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.048(.044) J:V	.054(.036) :V	.071(.039) :V	.067(.041) :V	.047(.031) :V	.022(.029) J:V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.595(.308) :V	1.114(.195) :V	1.081(.186) :V	1.502(.249) :V	.865(.155) :V	1.496(.286) :V

† DOE 1994b
‡ DOE 1994d

TABLE 3-11
Surface-Soil Positive Results
OU13 - IHSS 158
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS303693 SSG1729JE 27-Jun-94	SS303793 SSG1730JE 27-Jun-94	SS303893 SSG1731JE 28-Jun-94	SS303993 SSG1732JE 28-Jun-94	SS304093 SSG1733JE 22-Jun-94	SS304193 SSG1734JE 22-Jun-94
Test Group:METADD Units: mg/kg								
CESIUM	1000	0.00E 0 / 630.80E 0	4.1 B:JA	5.8 B:JA		6.4 B:JA	5.9 B:JA	4.1 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.5 B:JA	6.7 B:JA	7.5 B:JA	6.4 B:JA	4.9 B:JA	5.4 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0				5.1 B:V		
STRONTIUM	200	1.65E 5 / 90.10E 0	6.4 B:JA	5.8 B:JA	6.5 B:JA	30.5 B:JA	11.8 B:JA	15.6 B:JA
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	0.00E 0 / 21915.40E 0	5010 :V	4970 :V	5200 :V	10500 :V	5030 :V	8650 :V
ARSENIC	10	3.66E-1 / 12.90E 0	2.1 :V*	1.9 :V*	1.7 B:V*	5.9 :V*	2.4 :V*	8.5 :V*
BARIUM	200	1.91E 4 / 528.00E 0	43.5 :V	41.8 :V	50.5 :V	92.8 :V	94.8 :V	71.1 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0				.89 B:V*		.79 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0						.52 B:JA
CALCIUM	5000	0.00E 0 / 13573.30E 0	1280 :V	1220 :V	1090 :V	19000 :V#	2520 :V	2540 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	9.5 :V	9.9 :V	9.2 :V	102 :V#	8.7 :V	19.2 :V
COBALT	50	0.00E 0 / 24.80E 0	21.5 :V-	8.4 B:V-	7.5 B:V-	29.9 :V-	3.8 B:V-	7 B:V-
COPPER	25	1.10E 4 / 27.30E 0	15.1 :V	9.9 :V	10 :V	21.7 :V	14.7 :V	17.3 :V
IRON	100	0.00E 0 / 28160.40E 0	8640 :V	9240 :V	9510 :V	15100 :V	9170 :V	15700 :V
LEAD	3	0.00E 0 / 61.40E 0	7.9 :V	7.3 :V	6.7 :V	10 :V	78.8 :V#	18.6 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1780 :V	1910 :V	2130 :V	2600 :V	1780 :V	2310 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	115 :V	161 :V	144 :V	213 :V	158 :V	221 :V
NICKEL	40	5.49E 3 / 26.90E 0				97.6 :V#		16 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1500 :V	1670 :V	1760 :V	1390 :V	1320 :V	1210 :V
SELENIUM	5	1.37E 3 / 1.40E 0					.6 B:V	.66 B:V
SILVER	10	1.37E 3 / 10.00E 0	1.9 B:V					1.1 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0		116 B:V	141 B:V	161 B:V		
VANADIUM	50	1.92E 3 / 55.60E 0	16.2 :V	20.8 :V	15.9 :V	30.2 :V	17.6 :V	34.8 :V
ZINC	20	8.23E 4 / 86.60E 0	47.3 :V	27.2 :V	27.6 :V	72.2 :V	132 :V#	113 :V#
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.009(.007) :V	.008(.006) :V	.184(.031) :V#	.012(.007) :V	.032(.012) :V	.254(.039) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	32.28(6.59) :V	31.75(6.49) :V	28.65(6.16) :V	16.72(4.66) :V	26.5(5.79) :V	22.83(5.43) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	50.64(5.92) :V	47.36(5.68) :V	49.46(4.73) :V	33.12(3.63) :V	41.92(5.28) :V	45.36(5.51) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.01(.009) :V	.006(.007) :V	.006(.005) :V	.024(.012) :V	.08(.03) :V	.193(.051) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	-75.9(200) J:V-	144.2(209) J:V-	52.19(209) J:V-	25.13(207) J:V-	43.28(205) J:V-	-54.8(201) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.639(.265) :V	1.846(.339) :V#	1.753(.286) :V	1.059(.188) :V	1.404(.269) :V	1.545(.294) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.096(.049) :V	.08(.056) :V	.125(.059) :V	.038(.03) :V	.067(.049) :V	.082(.057) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.584(.258) :V	1.87(.342) :V	1.57(.264) :V	1.007(.181) :V	1.609(.296) :V	4.132(.621) :V#

TABLE 3-11
Surface-Soil Positive Results
OU13 - IHSS 158
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS304293 SSG1735JE 23-Jun-94	SS304393 SSG1736JE 23-Jun-94	SS304493 SSG1737JE 23-Jun-94	SS304593 SSG1738JE 23-Jun-94	SS304593 SSG1820JE 23-Jun-94	SS304693 SSG1739JE 27-Jun-94
Test Group:METADD Units: mg/kg								
CESIUM	1000	0.00E 0 / 630.80E 0	4.2 B:JA	4.4 B:JA	4.2 B:JA	4.2 B:JA	6.4 B:JA	6 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	3.4 B:JA	9.1 B:JA	4.7 B:JA	4.2 B:JA	5.1 B:JA	5.3 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0						
STRONTIUM	200	1.65E 5 / 90.10E 0	10.3 B:JA	16.5 B:JA	10.5 B:JA	11.2 B:JA	12.1 B:JA	14.8 B:JA
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	0.00E 0 / 21915.40E 0	3080 :V	12500 :V	6130 :V	4500 :V	5150 :V	6580 :V
ARSENIC	10	3.66E-1 / 12.90E 0	2.2 :V*	5.2 :V*	3.6 :V*	2.7 :V*	3.1 :V*	5.5 :V*
BARIUM	200	1.91E 4 / 528.00E 0	38.1 B:V	111 :V	56 :V	36.1 B:V	39.7 B:V	60.8 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0		1.7 :V*				
CADMIUM	5	1.37E 2 / 5.00E 0		.25 B:JA				
CALCIUM	5000	0.00E 0 / 13573.30E 0	2230 :V	2610 :V	1700 :V	4370 :V	5180 :V	2890 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	5.9 :V	15.9 :V	9.8 :V	8 :V	9.6 :V	9 :V
COBALT	50	0.00E 0 / 24.80E 0	2.5 B:V-	7 B:V-	3.9 B:V-	3 B:V-	3.6 B:V-	5.5 B:V-
COPPER	25	1.10E 4 / 27.30E 0	9.1 :V	15.3 :V	90.2 :V#	287 :V#	13 :V	11.9 :V
IRON	100	0.00E 0 / 28160.40E 0	5100 :V	14600 :V	9030 :V	7160 :V	8530 :V	11000 :V
LEAD	3	0.00E 0 / 61.40E 0	15.4 :V	17.5 :V	43.9 :V	29.4 :V	41.7 :V	8.6 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1080 :V	2770 :V	1800 :V	1150 :V	1300 :V	1630 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	92.5 :V	261 :V	136 :V	99.8 :V	118 :V	127 :V
NICKEL	40	5.49E 3 / 26.90E 0		13.3 :V				
POTASSIUM	5000	0.00E 0 / 5256.80E 0	727 B:V	2060 :V	1020 B:V	1310 :V	1400 :V	1130 :V
SELENIUM	5	1.37E 3 / 1.40E 0		.75 B:V				.65 B:V
SILVER	10	1.37E 3 / 10.00E 0		.9 B:V				
SODIUM	5000	0.00E 0 / 1108.00E 0						173 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	9.4 B:V	29.5 :V	18.8 :V	13 :V	15.4 :V	22.9 :V
ZINC	20	8.23E 4 / 86.60E 0	87.3 :V#	676 :V#	1080 :V#	57.9 :V	52.9 :V	31.1 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.032(.013) :V	.042(.013) :V	.077(.02) :V#	.12(.026) :V#	.044(.015) :V	.009(.007) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	21.33(5.16) :V	18.9(4.8) :V	22.87(5.3) :V	25.72(5.73) :V	20.59(5.03) :V	18.93(4.89) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	34.08(4.67) :V	33.99(4.68) :V	40.64(5.18) :V	37.79(4.97) :V	43.74(5.42) :V	34.78(4.72) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.012(.015) J:V	.18(.051) :V#	.139(.039) :V#	.642(.113) :V#	.139(.032) :V#	(.012) J:V
TRITIUM	0	0.00E 0 / 545.96E 0	184.6(212) J:V-	-52.9(199) J:V-	6.732(203) J:V-	-26.9(201) J:V-	-86.6(200) J:V-	11.54(204) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.02(.207) :V	.914(.213) :V	1.224(.254) :V	1.342(.259) :V	1.242(.266) :V	1.099(.202) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.064(.046) :V	.372(.125) :V*#	.073(.052) :V	.025(.032) J:V	.039(.043) J:V	.043(.034) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.019(.207) :V	.863(.205) :V	1.365(.273) :V	1.191(.238) :V	1.136(.25) :V	1.16(.21) :V

† DOE 1994b
‡ DOE 1994d

TABLE 3-12
Surface-Soil Positive Results Data Summary
OU13-IHSS 186
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:TRADS Units:PCI/G							
AMERICIUM-241	0.009	**	**	**	**	.018(.009) :V	SS304793 (1)
GROSS ALPHA	3.27	**	**	**	**	17.46(4.55) :V	SS305293 (1)
GROSS BETA	3.8	**	**	**	**	32.53(4.57) :V	SS304793 (1)
PLUTONIUM-239/240	0.012	**	**	**	**	.084(.025) :V	SS305193 (1)
TRITIUM	247	**	**	**	**	-97.2(199) J:V	SS305193 (1)
URANIUM-233,-234	0.062	**	**	**	**	1.147(.236) :V	SS305293 (1)
URANIUM-235	0.019	**	**	**	**	.057(.046) :V	SS305293 (1)
URANIUM-238	0.048	**	**	**	**	1.204(.243) :V	SS305293 (1)

TABLE 3-12
Surface-Soil Positive Results Data Summary
OU13-IHSS 186
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:TRADS Units:PCI/G					
AMERICIUM-241	1.464(.176) :V	SS305593 (1)	12	12	0.347
GROSS ALPHA	30.65(6.41) :V	SS305593 (1)	12	12	23.9483
GROSS BETA	58.25(6.47) :V	SS305393 (1)	12	12	41.925
PLUTONIUM-239/240	7.663(.935) :V	SS305593 (1)	12	12	1.1988
TRITIUM	127(209) J:V	SS304793 (1)	12	12	8.2523
URANIUM-233,-234	1.662(.329) :V	SS305393 (1)	12	12	1.3716
URANIUM-235	.105(.074) :A	SS305593 (1)	12	12	0.0796
URANIUM-238	3.53(.577) :V	SS305393 (1)	12	12	2.0211

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = Indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-13
Surface-Soil Positive Results
OU13-IHSS 186
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS304793 SSG1740JE 21-Jun-94	SS304893 SSG1741JE 21-Jun-94	SS304993 SSG1742JE 21-Jun-94	SS305093 SSG1743JE 21-Jun-94	SS305193 SSG1744JE 21-Jun-94	SS305293 SSG1745JE 21-Jun-94
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.018(.009) :V	.456(.062) :V#	.178(.032) :V	.168(.03) :V#	.057(.018) :V	.078(.019) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	21.24(5.11) :V	23.65(5.45) :V	26.72(5.82) :	20.48(5.02) :V	24.35(5.6) :V	17.46(4.55) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	32.53(4.57) :V	41.46(5.23) :V	36.16(4.81) :	41.19(5.21) :V	57.55(6.4) :V#	33.44(4.6) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.09(.028) :V	.425(.081) :V#	.111(.045) :V	.211(.047) :V#	.084(.025) :V	.315(.088) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	127(209) J:V-	124.1(209) J:V-	-25(201) J:V-	-69.3(200) J:V-	-97.2(199) J:V-	100(207) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.409(.249) :V	1.265(.266) :V	1.164(.223) :	1.369(.259) :V	1.594(.285) :V	1.147(.236) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.101(.053) :V	.078(.055) :V	.083(.051) :V	.084(.053) :V	.086(.051) :V	.057(.046) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.42(.25) :V	1.973(.362) :V#	2.521(.389) :	3.33(.501) :V#	2.086(.346) :V#	1.204(.243) :V

TABLE 3-13
Surface-Soil Positive Results
OU13-IHSS 186
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS305393 SSG1746JE 20-Jun-94	SS305493 SSG1747JE 20-Jun-94	SS305593 SSG1748JE 20-Jun-94	SS305693 SSG1749JE 20-Jun-94	SS305693 SSG1816JE 20-Jun-94	SS305793 SSG1750JE 20-Jun-94
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	1.045(.131) :V#	.166(.031) :V#	1.464(.176) :V#	.221(.034) :V#	.237(.038) :V#	.076(.021) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	26.49(5.83) :V	25.89(5.8) :V	30.65(6.41) :V	24.12(5.52) :V	25.61(5.73) :V	20.72(5.06) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	58.25(6.47) :V#	39.25(5.06) :V	40.86(5.19) :V	38.87(5.04) :V	38.56(5.01) :V	44.98(5.49) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	1.504(.175) :V#	.69(.099) :V#	7.663(.935) :V#	1.287(.177) :V#	1.78(.2) :V#	.226(.044) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	4.812(204) J:V-	16.36(205) J:V-	-17.3(203) J:V-	2.886(202) J:V-	13.47(203) J:V-	-80.8(200) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.662(.329) :V	1.645(.265) :V	1.361(.308) :A	1.323(.27) :V	1.289(.24) :V	1.231(.234) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.087(.063) :V	.075(.044) :V	.105(.074) :A	.058(.048) :V	.058(.042) :V	.083(.049) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	3.53(.577) :V#	1.517(.249) :V	1.908(.388) :A	1.684(.32) :V	1.703(.292) :V	1.377(.252) :V

† DOE 1994b
‡ DOE 1994d

TABLE 3-14
Surface-Soil Positive Results Data Summary
OU13 - IHSS 128
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:SMETCLP Units: mg/kg							
LITHIUM	0.24	**	**	**	**	4.9 B:V	SS302293 (1)
MAGNESIUM	2.3	**	**	**	**	2090 :V	SS302293 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.002	**	**	**	**	.044(.014) :V	SS302293 (1)
GROSS ALPHA	3.59	**	**	**	**	24.89(5.75) :V	SS302293 (1)
GROSS BETA	3.62	**	**	**	**	41.82(5.26) :V	SS302293 (1)
PLUTONIUM-239/240	0.013	**	**	**	**	.087(.027) :V	SS302293 (1)
TRITIUM	242	**	**	**	**	191.5(207) J:V	SS302293 (1)
URANIUM-233,-234	0.028	**	**	**	**	1.196(.182) :V	SS302293 (1)
URANIUM-235	0.03	**	**	**	**	.076(.036) :V	SS302293 (1)
URANIUM-238	0.028	**	**	**	**	1.381(.202) :V	SS302293 (1)

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = Result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no none detecteds reported

TABLE 3-14
Surface-Soil Positive Results Data Summary
OU13 - IHSS 128
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:SMETCLP Units: mg/kg					
LITHIUM	4.9 B:V	SS302293 (1)	1	1	4.9
MAGNESIUM	2090 :V	SS302293 (1)	1	1	2090
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.044(.014) :V	SS302293 (1)	1	1	0.044
GROSS ALPHA	24.89(5.75) :V	SS302293 (1)	1	1	24.89
GROSS BETA	41.82(5.26) :V	SS302293 (1)	1	1	41.82
PLUTONIUM-239/240	.087(.027) :V	SS302293 (1)	1	1	0.087
TRITIUM	191.5(207) J:V	SS302293 (1)	1	1	191.5
URANIUM-233,-234	1.196(.182) :V	SS302293 (1)	1	1	1.196
URANIUM-235	.076(.036) :V	SS302293 (1)	1	1	0.076
URANIUM-238	1.381(.202) :V	SS302293 (1)	1	1	1.381

TABLE 3-15
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134N
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
LITHIUM	100	**	**	**	**	15.8 B:J	SS310393 (1)
MOLYBDENUM	200	**	**	**	**	5.8 B:J	SS310393 (1)
STRONTIUM	200	**	**	**	**	413 :J	SS310393 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	15100 :V	SS310393 (1)
ARSENIC	10	**	**	**	**	2.4 :V	SS310393 (1)
BARIUM	200	**	**	**	**	38.4 B:V	SS310393 (1)
BERYLLIUM	5	**	**	**	**	.37 B:V	SS310393 (1)
CALCIUM	5000	**	**	**	**	18100 :V	SS310393 (1)
CHROMIUM	10	**	**	**	**	14.3 :J	SS310393 (1)
COBALT	50	**	**	**	**	13.5 :V	SS310393 (1)
COPPER	25	**	**	**	**	72 :V	SS310393 (1)
IRON	100	**	**	**	**	31700 :V	SS310393 (1)
LEAD	3	**	**	**	**	9.5 :J	SS310393 (1)
LITHIUM	0.28	**	**	**	**	8.1 B:V	SS302093 (1)
MAGNESIUM	5000	**	**	**	**	2950 :V	SS302093 (1)
MANGANESE	15	**	**	**	**	780 :V	SS310393 (1)
NICKEL	40	**	**	**	**	30.3 :V	SS310393 (1)
POTASSIUM	5000	**	**	**	**	1630 :V	SS310393 (1)
SILVER	10	**	**	**	**	2.9 :J	SS310393 (1)
SODIUM	5000	**	**	**	**	2850 :V	SS310393 (1)
VANADIUM	50	**	**	**	**	49 :V	SS310393 (1)
ZINC	20	**	**	**	**	57 :V	SS310393 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.009	**	**	**	**	.066(.018) :V	SS302093 (1)
GROSS ALPHA	3.28	**	**	**	**	22.99(5.37) :V	SS302193 (1)
GROSS BETA	3.88	**	**	**	**	36.92(4.93) :V	SS302193 (1)
PLUTONIUM-239/240	0.01	**	**	**	**	.083(.024) :V	SS302193 (1)
TRITIUM	258	**	**	**	**	-23.1(215) J:V	SS302193 (1)
URANIUM-233,-234	0.073	**	**	**	**	1.222(.258) :V	SS302193 (1)
URANIUM-235	0.05	**	**	**	**	.059(.048) :V	SS302193 (1)
URANIUM-238	0.069	**	**	**	**	1.251(.261) :V	SS302193 (1)
Test Group:VOA8240 Units: µg/kg							

TABLE 3-15
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134N
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples
Test Group:METADD Units: mg/kg				
LITHIUM	15.8 B:J	SS310393 (1)	1	1
MOLYBDENUM	5.8 B:J	SS310393 (1)	1	1
STRONTIUM	413 :J	SS310393 (1)	1	1
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	15100 :V	SS310393 (1)	1	1
ARSENIC	2.4 :V	SS310393 (1)	1	1
BARIUM	38.4 B:V	SS310393 (1)	1	1
BERYLLIUM	.37 B:V	SS310393 (1)	1	1
CALCIUM	18100 :V	SS310393 (1)	1	1
CHROMIUM	14.3 :J	SS310393 (1)	1	1
COBALT	13.5 :V	SS310393 (1)	1	1
COPPER	72 :V	SS310393 (1)	1	1
IRON	31700 :V	SS310393 (1)	1	1
LEAD	9.5 :J	SS310393 (1)	1	1
LITHIUM	11.8 B:V	SS302193 (1)	2	2
MAGNESIUM	18400 :V	SS310393 (1)	3	3
MANGANESE	780 :V	SS310393 (1)	1	1
NICKEL	30.3 :V	SS310393 (1)	1	1
POTASSIUM	1630 :V	SS310393 (1)	1	1
SILVER	2.9 :J	SS310393 (1)	1	1
SODIUM	2850 :V	SS310393 (1)	1	1
VANADIUM	49 :V	SS310393 (1)	1	1
ZINC	57 :V	SS310393 (1)	1	1
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	.202(.038) :V	SS302193 (1)	2	2
GROSS ALPHA	27.56(5.99) :V	SS302093 (1)	2	2
GROSS BETA	38.57(5.01) :V	SS302093 (1)	2	2
PLUTONIUM-239/240	.183(.037) :V	SS302093 (1)	2	2
TRITIUM	18.28(203) J:V	SS302093 (1)	2	2
URANIUM-233,-234	1.414(.225) :V	SS302093 (1)	2	2
URANIUM-235	.06(.037) :V	SS302093 (1)	2	2
URANIUM-238	1.626(.249) :V	SS302093 (1)	2	2
Test Group:VOA8240 Units: µg/kg				

TABLE 3-15
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134N
Rocky Flats Environmental Technology Site

	Average Concentration
Test Group:METADD Units: mg/kg	
LITHIUM	15.8
MOLYBDENUM	5.8
STRONTIUM	413
Test Group:SMETCLP Units: mg/kg	
ALUMINUM	15100
ARSENIC	2.4
BARIUM	38.4
BERYLLIUM	0.37
CALCIUM	18100
CHROMIUM	14.3
COBALT	13.5
COPPER	72
IRON	31700
LEAD	9.5
LITHIUM	9.95
MAGNESIUM	9790
MANGANESE	780
NICKEL	30.3
POTASSIUM	1630
SILVER	2.9
SODIUM	2850
VANADIUM	49
ZINC	57
Test Group:TRADS Units: pCi/g	
AMERICIUM-241	0.134
GROSS ALPHA	25.275
GROSS BETA	37.745
PLUTONIUM-239/240	0.133
TRITIUM	-2.41
URANIUM-233,-234	1.318
URANIUM-235	0.0595
URANIUM-238	1.4385
Test Group:VOA8240 Units: µg/kg	

Notes:
A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no nondetecteds reported

TABLE 3-16
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134S
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration
Test Group:SMETCLP Units: mg/kg						
LITHIUM	0.24	**	**	**	**	4.1 B:V
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	0.002	**	**	**	**	.003(.005) J:V
GROSS ALPHA	3.43	**	**	**	**	17.67(4.84) :V
GROSS BETA	3.91	**	**	**	**	32.13(4.51) :V
PLUTONIUM-239/240	0.004	**	**	**	**	.008(.007) :V
TRITIUM	247	**	**	**	**	-39.5(202) J:V
URANIUM-233,-234	0.073	**	**	**	**	.906(.24) :V
URANIUM-235	0.053	**	**	**	**	.009(.023) J:V
URANIUM-238	0.069	**	**	**	**	1.32(.224) :V

TABLE 3-16
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134S
Rocky Flats Environmental Technology Site

	Minimum Concentration Location *	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples
Test Group:SMETCLP Units: mg/kg					
LITHIUM	SS302593 (1)	7.2 B:V	SS302793 (3)	11	11
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	SS303293 (1)	.116(.025) :V	SS303093 (1)	12	12
GROSS ALPHA	SS302893 (1)	41.21(7.65) :V	SS303093 (1)	12	12
GROSS BETA	SS302993 (1)	59.17(6.53) :V	SS303593 (1)	12	12
PLUTONIUM-239/240	SS303593 (1)	.465(.083) :V	SS303093 (1)	12	12
TRITIUM	SS303193 (1)	283.8(212) :V	SS302793 (1)	12	12
URANIUM-233,-234	SS303193 (1)	3.5(.497) :V	SS303093 (1)	12	12
URANIUM-235	SS303193 (1)	.168(.07) :V	SS303093 (1)	12	12
URANIUM-238	SS303393 (1)	2.894(.487) :V	SS303593 (1)	12	12

TABLE 3-16
Surface-Soil Positive Results Data Summary
OU13 - IHSS 134S
Rocky Flats Environmental Technology Site

	Average Concentration
Test Group:SMETCLP Units: mg/kg	
LITHIUM	5.5182
Test Group:TRADS Units: pCi/g	
AMERICIUM-241	0.0472
GROSS ALPHA	28.5592
GROSS BETA	45.0758
PLUTONIUM-239/240	0.1483
TRITIUM	91.82
URANIUM-233,-234	1.7369
URANIUM-235	0.083
URANIUM-238	1.702

Notes:
A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-17
Surface-Soil Positive Results Data Summary
OU13 - IHSS 171
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration
Test Group:SMETCLP Units: mg/kg						
LITHIUM	0.27	**	**	**	**	2.9 B:V
MAGNESIUM	2.6	**	**	**	**	1540 :V
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	0.012	**	**	**	**	.011(.007) :V
GROSS ALPHA	3.59	**	**	**	**	14.96(4.51) :V
GROSS BETA	3.86	**	**	**	**	30.11(4.37) :V
PLUTONIUM-239/240	0.008	**	**	**	**	.037(.019) :V
TRITIUM	247	**	**	**	**	-1.92(202) J:V
URANIUM-233,-234	0.047	**	**	**	**	1.094(.214) :V
URANIUM-235	0.047	**	**	**	**	.012(.029) J:V
URANIUM-238	0.033	**	**	**	**	.95(.171) :V

TABLE 3-17
Surface-Soil Positive Results Data Summary
OU13 - IHSS 171
Rocky Flats Environmental Technology Site

	Minimum Concentration Location *	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples
Test Group:SMETCLP Units: mg/kg					
LITHIUM	SS302393 (1)	7.7 B:V	SS301893 (1)	5	5
MAGNESIUM	SS302393 (1)	5100 :V	SS301893 (1)	5	5
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	SS301893 (1)	.121(.027) :V	SS302493 (1)	7	7
GROSS ALPHA	SS301793 (1)	23.78(5.61) :V	SS302493 (1)	7	7
GROSS BETA	SS301893 (1)	45.93(5.56) :V	SS301993 (1)	7	7
PLUTONIUM-239/240	SS301993 (1)	.135(.038) :V	SS302493 (1)	7	7
TRITIUM	SS302493 (1)	162.6(211) J:V	SS302393 (1)	7	7
URANIUM-233,-234	SS302493 (1)	1.256(.273) :V	SS302393 (1)	7	7
URANIUM-235	SS302393 (1)	.052(.037) :V	SS301893 (1)	7	7
URANIUM-238	SS301793 (1)	1.376(.239) :V	SS301893 (1)	7	7

TABLE 3-17
Surface-Soil Positive Results Data Summary
OU13 - IHSS 171
Rocky Flats Environmental Technology Site

	Average Concentration
Test Group:SMETCLP Units: mg/kg	
LITHIUM	4.9
MAGNESIUM	2554
Test Group:TRADS Units: pCi/g	
AMERICIUM-241	0.0466
GROSS ALPHA	18.3157
GROSS BETA	40.1529
PLUTONIUM-239/240	0.0761
TRITIUM	73.68
URANIUM-233,-234	1.1729
URANIUM-235	0.0407
URANIUM-238	1.1143

Notes:
A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-18
Surface-Soil Positive Results Data Summary
OU13 - Outside IHSS Boundaries
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration
Test Group:SMETCLP Units: mg/kg						
LITHIUM	0.25	**	**	**	**	4.8 B:V
MAGNESIUM	2.3	**	**	**	**	3480 :V
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	0.005	**	**	**	**	.061(.016) :V
GROSS ALPHA	2.72	**	**	**	**	15.37(4.28) :V
GROSS BETA	3.58	**	**	**	**	39.73(5.1) :V
PLUTONIUM-239/240	0.003	**	**	**	**	.136(.043) :V
TRITIUM	242	**	**	**	**	53.88(199) J:V
URANIUM-233,-234	0.03	**	**	**	**	1.044(.173) :V
URANIUM-235	0.03	**	**	**	**	.05(.033) :V
URANIUM-238	0.021	**	**	**	**	1.305(.203) :V

TABLE 3-18
Surface-Soil Positive Results Data Summary
OU13 - Outside IHSS Boundaries
Rocky Flats Environmental Technology Site

	Minimum Concentration Location *	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples
Test Group:SMETCLP Units: mg/kg					
LITHIUM	SS301693 (1)	12.9 B:V	SS301493 (1)	3	3
MAGNESIUM	SS301693 (1)	10300 :V	SS301493 (1)	3	3
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	SS301593 (1)	.291(.043) :V	SS301493 (1)	3	3
GROSS ALPHA	SS301593 (1)	18.1(4.76) :V	SS301493 (1)	3	3
GROSS BETA	SS301693 (1)	42.81(5.34) :V	SS301493 (1)	3	3
PLUTONIUM-239/240	SS301593 (1)	1.744(.198) :V	SS301493 (1)	3	3
TRITIUM	SS301493 (1)	161.7(205) J:V	SS301693 (1)	3	3
URANIUM-233,-234	SS301693 (1)	1.323(.226) :V	SS301593 (1)	3	3
URANIUM-235	SS301493 (1)	.071(.037) :V	SS301693 (1)	3	3
URANIUM-238	SS301693 (1)	1.468(.23) :V	SS301493 (1)	3	3

TABLE 3-18
Surface-Soil Positive Results Data Summary
OU13 - Outside IHSS Boundaries
Rocky Flats Environmental Technology Site

	Average Concentration
Test Group:SMETCLP Units: mg/kg	
LITHIUM	8.4
MAGNESIUM	6166.667
Test Group:TRADS Units: pCi/g	*
AMERICIUM-241	0.2013
GROSS ALPHA	17.1267
GROSS BETA	41.1067
PLUTONIUM-239/240	0.821
TRITIUM	112.5933
URANIUM-233,-234	1.209
URANIUM-235	0.0633
URANIUM-238	1.3763

Notes:
A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-19
Surface-Soil Positive Results
OU13 - IHSS 128
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS302293 SSG1715JE 13-Jun-94
Test Group:SMETCLP Units: mg/kg			
LITHIUM	100	0.00E 0 / 20.00E 0	4.9 B:V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2090 :V
Test Group:TRADS Units: pCi/g			
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.044(.014) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	24.89(5.75) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	41.82(5.26) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.087(.027) :V
TRITIUM	0	0.00E 0 / 545.96E 0	191.5(207) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.196(.182) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.076(.036) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.381(.202) :V
Test Group:WQPL Units:%REC			
% SOLIDS BY WEIGHT	0	E 0 / E 0	97 :V-

† DOE 1994b
‡ DOE 1994d

TABLE 3-20
Surface-Soil Positive Results
OU13 - IHSS 134N
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS302093 SSG1713JE 8-Jun-94	SS302193 SSG1714JE 8-Jun-94	SS310393 SSG1798JE 18-Jul-94
Test Group:METADD Units: mg/kg					
LITHIUM	100	0.00E 0 / 20.00E 0			15.8 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0			5.8 B:JA
STRONTIUM	200	1.65E 5 / 90.10E 0			413 :JA#
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	200	0.00E 0 / 21915.40E 0			15100 :V
ARSENIC	10	3.66E-1 / 12.90E 0			2.4 :V*
BARIUM	200	1.91E 4 / 528.00E 0			38.4 B:V
BERYLLIUM	5	1.49E-1 / 5.20E 0			.37 B:V*
CALCIUM	5000	0.00E 0 / 13573.30E 0			18100 :V#
CHROMIUM	10	1.37E 3 / 24.80E 0			14.3 :JA
COBALT	50	0.00E 0 / 24.80E 0			13.5 :V-
COPPER	25	1.10E 4 / 27.30E 0			72 :V#
IRON	100	0.00E 0 / 28160.40E 0			31700 :V#
LEAD	3	0.00E 0 / 61.40E 0			9.5 :JA
LITHIUM	100	0.00E 0 / 20.00E 0	8.1 B:V	11.8 B:V	
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2950 :V	8020 :V#	18400 :V#
MANGANESE	15	1.36E 3 / 2253.50E 0			780 :V
NICKEL	40	5.49E 3 / 26.90E 0			30.3 :V#
POTASSIUM	5000	0.00E 0 / 5256.80E 0			1630 :V
SILVER	10	1.37E 3 / 10.00E 0			2.9 :JA
SODIUM	5000	0.00E 0 / 1108.00E 0			2850 :V#
VANADIUM	50	1.92E 3 / 55.60E 0			49 :V
ZINC	20	8.23E 4 / 86.60E 0			57 :V
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.066(.018) :V#	.202(.038) :V#	
GROSS ALPHA	0	0.00E 0 / 44.56E 0	27.56(5.99) :V	22.99(5.37) :V	
GROSS BETA	0	0.00E 0 / 55.35E 0	38.57(5.01) :V	36.92(4.93) :V	
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.183(.037) :V#	.083(.024) :V	
TRITIUM	0	0.00E 0 / 545.96E 0	18.28(203) J:V-	-23.1(215) J:V-	
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.414(.225) :V	1.222(.258) :V	
URANIUM-235	0	1.73E-1 / 19.83E-2	.06(.037) :V	.059(.048) :V	
URANIUM-238	0	4.60E 1 / 19.12E-1	1.626(.249) :V	1.251(.261) :V	
Test Group:WQPL Units:%REC					
% SOLIDS BY WEIGHT	0	E 0 / E 0	96.3 :V-	97.5 :V-	

† DOE 1994b
‡ DOE 1994d

TABLE 3-21
Surface-Soil Positive Results
OU13 - IHSS 134S
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡		SS302593 SSG1718JE 14-Jun-94	SS302693 SSG1719JE 14-Jun-94	SS302793 SSG1720JE 14-Jun-94	SS302893 SSG1721JE 14-Jun-94	SS302993 SSG1722JE 15-Jun-94
Test Group:SMETCLP Units: mg/kg								
LITHIUM	100	0.00E 0 /	20.00E 0	4.1 B:V	4.9 B:V	7.2 B:V	4.9 B:V	4.7 B:V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 /	6.34E-2	.099(.024) :V#	.044(.015) :V	.109(.024) :V#	.056(.016) :V	.032(.013) :V
GROSS ALPHA	0	0.00E 0 /	44.56E 0	24.21(5.52) :V	38.29(7.32) :V	27.42(6.08) :V	17.67(4.84) :V	24.49(5.49) :V
GROSS BETA	0	0.00E 0 /	55.35E 0	46.15(5.58) :V	58.06(6.43) :V#	41.76(5.26) :V	43.79(5.38) :V	32.13(4.51) :V
PLUTONIUM-239/240	0	3.42E 0 /	13.21E-2	.313(.081) :V#	.076(.024) :V	.376(.059) :V#	.237(.053) :V#	.062(.023) :V
TRITIUM	0	0.00E 0 /	545.96E 0	88.51(201) J:V-	205.9(207) J:V-	283.8(212) :V-	125.1(203) J:V-	53.87(199) X:V-
URANIUM-233,-234	0	4.47E 1 /	17.69E-1	1.205(.245) :V	1.971(.279) :V#	1.538(.243) :V	1.327(.208) :V	1.563(.258) :V
URANIUM-235	0	1.73E-1 /	19.83E-2	.054(.045) :V	.101(.045) :V	.073(.041) :V	.046(.031) :V	.075(.045) :V
URANIUM-238	0	4.60E 1 /	19.12E-1	1.77(.316) :V	1.945(.275) :V#	1.679(.258) :V	1.558(.232) :V	2.002(.309) :V#
Test Group:WQPL Units:%REC								
% SOLIDS BY WEIGHT	0	E 0 /	E 0	92.1 :V-	96 :V-	94.5 :V-	92.2 :V-	93.3 :V-

TABLE 3-21
Surface-Soil Positive Results
OU13 - IHSS 134S
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS302993 SSG1813JE 15-Jun-94	SS303093 SSG1723JE 15-Jun-94	SS303193 SSG1724JE 16-Jun-94	SS303293 SSG1725JE 16-Jun-94	SS303393 SSG1726JE 16-Jun-94	SS303493 SSG1727JE 16-Jun-94	SS303593 SSG1728JE 16-Jun-94
Test Group:SMETCLP Units: mg/kg									
LITHIUM	100	0.00E 0 / 20.00E 0	7.2 B:V	7.2 B:V	4.8 B:V	5 B:V	5.1 B:V	5.3 B:V	5 B:V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.018(.01) :V	.116(.025) :V#	.065(.019) :V#	.003(.005) J:V	.01(.006) :V	.009(.007) :V	.005(.004) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	21.09(5.12) :V	41.21(7.65) :V	21.52(5.23) :V	31.81(6.56) :V	33.1(6.68) :V	23.96(5.58) :V	37.94(7.29) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	36.73(4.89) :V	35.48(4.78) :V	47.87(5.7) :V	48.77(5.77) :V	49.3(5.82) :V	41.7(5.24) :V	59.17(6.53) :V#
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.047(.023) :V	.465(.083) :V#	.135(.042) :V#	.014(.01) :V	.032(.014) :V	.014(.011) :V	.008(.007) :V
TRITIUM	0	0.00E 0 / 545.96E 0	95.23(202) X:V-	-19.2(196) J:V-	-39.5(202) J:V-	39.48(206) J:V-	29.85(206) J:V-	269.6(218) :V-	-30.8(203) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.247(.312) :A	3.5(.497) :V#	.906(.24) :V	1.415(.267) :V	1.512(.246) :V	1.785(.315) :V#	2.874(.484) :V#
URANIUM-235	0	1.73E-1 / 19.83E-2	.069(.067) J:A	.168(.07) :V	.009(.023) J:V	.055(.044) :V	.133(.058) :V	.086(.055) :V	.127(.072) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.426(.34) :A	1.473(.256) :V	1.372(.31) :V	1.373(.26) :V	1.32(.224) :V	1.612(.293) :V	2.894(.487) :V#
Test Group:WQPL Units:%REC									
% SOLIDS BY WEIGHT	0	E 0 / E 0	92.7 :V-	92.9 :V-	91.7 :V-	92.3 :V-	91.1 :V-	92.4 :V-	93.4 :V-

† DOE 1994b
‡ DOE 1994d

TABLE 3-22
Surface-Soil Positive Results
OU13 - IHSS 171
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS301793 SSG1710JE 9-Jun-94	SS301893 SSG1711JE 8-Jun-94	SS301993 SSG1712JE 8-Jun-94	SS302393 SSG1716JE 8-Jun-94	SS302393 SSG1806JE 8-Jun-94	SS302493 SSG1717JE 9-Jun-94	SS302493 SSG1808JE 9-Jun-94
Test Group:SMETCLP Units: mg/kg									
LITHIUM	100	0.00E 0 / 20.00E 0	4.2 B:V	7.7 B:V	5.3 B:V	2.9 B:V	2.8 B:V	4.3 B:V	4.4 B:V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2010 :V	5100 :V	2090 :V	1450 :V	1540 :V	2030 :V	2020 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.029(.012) :V	.011(.007) :V	.015(.009) :V	.031(.013) :V	.022(.011) :V	.097(.022) :V#	.121(.027) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	14.96(4.51) :V	17.44(4.72) :V	19.33(4.84) :V	18.46(4.81) :V	16.82(4.47) :V	17.42(4.88) :V	23.78(5.61) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	38.68(5.07) :V	30.11(4.37) :V	45.93(5.56) :V	44.37(5.5) :V	42.53(5.35) :V	38.1(4.98) :V	41.35(5.26) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.127(.037) :V	.039(.015) :V	.037(.019) :V	.048(.02) :V	.041(.015) :V	.135(.038) :V#	.106(.024) :V
TRITIUM	0	0.00E 0 / 545.96E 0	30.79(204) J:V-	59.66(205) J:V-	114.5(222) J:V-	40.43(218) J:V-	162.6(211) J:V-	-1.92(202) J:V-	109.7(208) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.143(.195) :V	1.181(.216) :V	1.232(.304) :A	1.256(.273) :V	1.149(.194) :V	1.094(.214) :V	1.155(.222) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.041(.031) :V	.052(.037) :V	.048(.059) J:A	.012(.029) J:V	.039(.03) :V	.044(.04) J:V	.049(.04) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	.95(.171) :V	1.376(.239) :V	1.029(.271) :A	1.074(.246) :V	1.223(.202) :V	.996(.201) :V	1.152(.221) :V
Test Group:WQPL Units:%REC									
% SOLIDS BY WEIGHT	0	E 0 / E 0	95.7 :V-	88.6 :V-	93.1 :V-	96.7 :V-	96.8 :V-	96.1 :V-	96.1 :V-

† DOE 1994b
‡ DOE 1994d

TABLE 3-23
Surface-Soil Positive Results
OU13 - Outside IHSS Boundaries
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS301493 SSG1707JE 13-Jun-94	SS301593 SSG1708JE 13-Jun-94	SS301693 SSG1709JE 13-Jun-94
Test Group:SMETCLP Units: mg/kg					
LITHIUM	100	0.00E 0 / 20.00E 0	12.9 B:V	7.5 B:V	4.8 B:V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	10300 :V#	4720 :V	3480 :V
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.291(.043) :V#	.061(.016) :V	.252(.039) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	18.1(4.76) :V	15.37(4.28) :V	17.91(4.65) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	42.81(5.34) :V	40.78(5.2) :V	39.73(5.1) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	1.744(.198) :V#	.136(.043) :V#	.583(.077) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	53.88(199) J:V-	122.2(203) J:V-	161.7(205) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.26(.206) :V	1.323(.226) :V	1.044(.173) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.05(.033) :V	.069(.042) :V	.071(.037) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.468(.23) :V	1.356(.23) :V	1.305(.203) :V
Test Group:WQPL Units:%REC					
% SOLIDS BY WEIGHT	0	E 0 / E 0	93.6 :V-	96.5 :V-	96.5 :V-

† DOE 1994b
‡ DOE 1994d

TABLE 3-24
Summary of Results from Geoprobe Sludge Sample IHSS 134(N)
Operable Unit 13 BHG225495

METALS	PRG†	BKGD‡		
Aluminum	0	21915.40	E0	13700
Arsenic	3.60E-1	12.90	E0	6.9
Barium	1.92E4	528.00	E0	76.6
Beryllium	1.49E-1	5.20	E0	1.7
Cadmium	1.37E2	5.00	E0	16.7#
Calcium	0	13573.30	E0	4550
Chromium	1.37E3	24.80	E0	16.8
Cobalt	0.00E0	24.80	E0	5B
Copper	1.10E4	27.30	E0	25.7
Iron	0.00E0	28160.40	E0	15300
Lead	0.00E0	61.40	E0	20.8
Magnesium	0.00E0	7011.50	E0	6120
Manganese	1.36E3	2253.50	E0	150
Nickel	5.49E3	26.90	E0	321#
Potassium	0.00E0	5256.80	E0	1200
Selenium	1.37E3	1.40	E0	1.2
Sodium	0	1108.00	E0	110B
Thallium	0	2.0	E0	2.9#
Vanadium	1.92E3	55.60	E0	31.6
Zinc	8.23E4	86.60	E0	188#
Molybdenum	1.37E3	40.0	E0	3.0B
Tin	1.65E5	75.9	E0	6.8B
Strontium	1.65E5	90.1	E0	18.8
Cesium	0	630.8	E0	7.4B
Lithium	0	20.0	E0	7.6B
SEMIVOLATILES				
4-Methylphenol	0	0		310J
1,24-Trichlorobenzene	2.74E03	0		95J
Naphthalene	0	0		86J
2-Methylnaphthalene	0	0		170J*
Acenaphthene	1.65E4	0		89J
Dibenzofuran	0	0		42J
Fluorene	1.10E4	0		53J
N-Nitrosodiphenylamine (1)	1.31E02	0		55J
Phenanthrene	0	0		220J
Anthracene	8.20E4	0		59J
Pyrene	8.23E3	0		1000
Butylbenzylphthalate	5.49E4	0		1400
Chrysene	8.77E1	0		130J
VOLATILE				
Methylene Chloride	8.54E01	0		2000BJ
1,2-Dichloroethene (total)	2.47E03	0		1100J
Trichloroethene	0	0		860J
Tetrachloroethene	1.23E01	0		100000
Xylene (total)	5.49E05	0		1200J

Notes:
A= Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
BKGD = Background concentration
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligram per kilogram
PRG = Preliminary Remediation Goal
V = Validation Qualifier: valid data
µg/L = microgram per liter
µg/kg = microgram per kilogram
* = Indicates compounds exceeds PRG
# = Indicates compound exceeds background
- = RBC for that compound does not exist
† = DOE 1994b
‡ = DOE 1994d

Units are reported in µg/L.

TABLE 3-25
Surface-Soil Positive Results Data Summary
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration
Test Group:METADD Units: mg/kg						
CESIUM	1000	5.8	SS307293 (1)	8.1	SS307593 (1)	3.9 B:J
LITHIUM	100	**	**	**	**	5 B:J
MOLYBDENUM	200	**	**	**	**	1.4 B:V
STRONTIUM	200	**	**	**	**	10.7 B:J
Test Group:SMETCLP Units: mg/kg						
ALUMINUM	200	**	**	**	**	4880 :V
ANTIMONY	60	2.5	SS307293 (1)	3.2	SS307493 (1)	4.1 B:J
ARSENIC	10	**	**	**	**	2.3 :J
BARIUM	200	**	**	**	**	61.5 :V
BERYLLIUM	5	**	**	**	**	.36 B:V
CADMIUM	5	0.16	SS307793 (1)	0.86	SS306993 (1)	.34 B:V
CALCIUM	5000	**	**	**	**	1430 :V
CHROMIUM	10	**	**	**	**	16.9 :J
COBALT	50	**	**	**	**	3.6 B:V
COPPER	25	**	**	**	**	12 :V
IRON	100	**	**	**	**	8870 :V
LEAD	3	**	**	**	**	12 :J
MAGNESIUM	5000	**	**	**	**	1370 :V
MANGANESE	15	**	**	**	**	129 :V
MERCURY	0.2	0.05	SS307793 (1)	0.06	SS307493 (1)	.051 B:V
NICKEL	40	**	**	**	**	7.4 B:V
POTASSIUM	5000	**	**	**	**	1170 :V
SELENIUM	5	0.54	SS307293 (1)	1.5	SS307493 (2)	.57 B:V
SILVER	10	0.8	SS307293 (1)	0.97	SS307693 (1)	1.3 B:V
SODIUM	5000	65.2	SS307293 (1)	111	SS307493 (1)	98.8 B:V
VANADIUM	50	**	**	**	**	14.4 :V
ZINC	20	**	**	**	**	32.5 :V
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	0.006	**	**	**	**	.025(.01) :V
GROSS ALPHA	3.44	**	**	**	**	15.78(4.38) :V
GROSS BETA	2.85	**	**	**	**	34.44(3.7) :V
PLUTONIUM-239/240	0.112	**	**	**	**	.018(.012) :V
TRITIUM	249	**	**	**	**	-108(207) J:V
URANIUM-233,-234	0.064	**	**	**	**	1.184(.296) :A
URANIUM-235	0.046	**	**	**	**	.026(.03) J:V
URANIUM-238	0.046	**	**	**	**	1.426(.333) :A

TABLE 3-25
Surface-Soil Positive Results Data Summary
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

	Minimum Concentration Location *	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples
Test Group:METADD Units: mg/kg					
CESIUM	SS306893 (1)	8.2 B:J	SS306993 (1)	4	11
LITHIUM	SS307593 (1)	13.1 B:J	SS306993 (1)	11	11
MOLYBDENUM	SS307293 (1)	5.4 B:J	SS306993 (1)	11	11
STRONTIUM	SS307293 (1)	94.7 :J	SS307693 (1)	11	11
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	SS307293 (1)	15100 I:J	SS306993 (1)	11	11
ANTIMONY	SS306993 (1)	4.1 B:J	SS306993 (1)	1	11
ARSENIC	SS307593 (1)	9.7 :V	SS306793 (1)	11	11
BARIUM	SS307593 (1)	203 :V	SS307693 (1)	11	11
BERYLLIUM	SS307293 (1)	1.2 :V	SS306793 (1)	11	11
CADMIUM	SS307593 (1)	1.6 :V	SS307493 (1)	4	11
CALCIUM	SS307293 (1)	9370 :V	SS307493 (1)	11	11
CHROMIUM	SS306793 (1)	95.6 :J	SS307493 (1)	11	11
COBALT	SS307593 (1)	28.7 :V	SS306793 (1)	11	11
COPPER	SS307593 (1)	145 :V	SS307493 (1)	11	11
IRON	SS307593 (1)	18700 I:J	SS306993 (1)	11	11
LEAD	SS307293 (1)	165 :J	SS307593 (1)	11	11
MAGNESIUM	SS307293 (1)	4580 I:J	SS306993 (1)	11	11
MANGANESE	SS306793 (1)	356 :V	SS307693 (1)	11	11
MERCURY	SS306893 (1)	.11 :V	SS306793 (1)	6	11
NICKEL	SS307593 (1)	52.4 :V	SS307493 (1)	11	11
POTASSIUM	SS307293 (1)	3390 I:J	SS306993 (1)	11	11
SELENIUM	SS306893 (1)	1.3 :V	SS306993 (1)	4	11
SILVER	SS306893 (2)	3.3 :J	SS306793 (1)	7	11
SODIUM	SS307393 (1)	480 B:V	SS306893 (1)	7	11
VANADIUM	SS307293 (1)	40.1 :V	SS306793 (1)	11	11
ZINC	SS306793 (1)	1220 :V	SS307493 (1)	11	11
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	SS307093 (1)	.197(.032) :V	SS307593 (1)	12	12
GROSS ALPHA	SS307693 (1)	34.75(6.92) :V	SS307493 (1)	12	12
GROSS BETA	SS306793 (1)	48.54(4.67) :V	SS307493 (1)	12	12
PLUTONIUM-239/240	SS306793 (1)	.169(.04) :V	SS307393 (1)	10	10
TRITIUM	SS307393 (1)	145.7(223) J:V	SS307193 (1)	12	12
URANIUM-233,-234	SS307393 (1)	2.04(.396) :V	SS307293 (1)	12	12
URANIUM-235	SS306793 (1)	.093(.046) :V	SS307193 (1)	12	12
URANIUM-238	SS307393 (1)	2.14(.309) :V	SS307693 (1)	12	12

TABLE 3-25
Surface-Soil Positive Results Data Summary
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

	Average Concentration
Test Group:METADD Units: mg/kg	
CESIUM	3.9727
LITHIUM	7.5545
MOLYBDENUM	3.0909
STRONTIUM	29.7
Test Group:SMETCLP Units: mg/kg	
ALUMINUM	9990
ANTIMONY	1.6318
ARSENIC	6.0818
BARIUM	91.0091
BERYLLIUM	0.6518
CADMIUM	0.4555
CALCIUM	4370.909
CHROMIUM	40.2636
COBALT	9.5636
COPPER	33.5182
IRON	14170
LEAD	77.9364
MAGNESIUM	2443.636
MANGANESE	209.6364
MERCURY	0.0495
NICKEL	17.8727
POTASSIUM	1932.727
SELENIUM	0.6009
SILVER	1.2564
SODIUM	123.3227
VANADIUM	29.5727
ZINC	216.9727
Test Group:TRADS Units: pCi/g	
AMERICIUM-241	0.0802
GROSS ALPHA	26.0267
GROSS BETA	40.5725
PLUTONIUM-239/240	0.0875
TRITIUM	-9.8683
URANIUM-233,-234	1.6332
URANIUM-235	0.0643
URANIUM-238	1.6498

Notes:
A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = Indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-26
Surface-Soil Positive Results
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS306793 SSG1771JE 6-Jul-94	SS306893 SSG1761JE 5-Jul-94	SS306993 SSG1762JE 5-Jul-94	SS306993 SSG1828JE 5-Jul-94	SS307093 SSG1763JE 5-Jul-94
Test Group:METADD Units: mg/kg							
CESIUM	1000	0.00E 0 / 630.80E 0		3.9 B:JA	8.2 B:JA	4.2 B:JA	4.1 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.6 B:JA	7.8 B:JA	13.1 B:JA	12.2 B:JA	6.8 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.6 B:V	3.7 B:V	5.4 B:JA	5.1 B:V	4.6 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	18.8 B:JA	17.7 B:JA	50.2 :JA	49 :JA	19.1 B:JA
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	0.00E 0 / 21915.40E 0	13200 :V	11600 I:JA	15100 I:JA	13200 I:JA	11100 I:JA
ANTIMONY	60	1.10E 2 / 50.00E 0				4.1 B:JA	
ARSENIC	10	3.66E-1 / 12.90E 0	9.7 :V*	7.5 :V*	7.3 :V*	6.6 :V*	8.4 :V*
BARIUM	200	1.91E 4 / 528.00E 0	81.1 :V	70.3 I:JA	111 I:JA	108 I:JA	82.4 I:JA
BERYLLIUM	5	1.49E-1 / 5.20E 0	1.2 :V*	.73 B:V*	.63 B:V*	.59 B:V*	.85 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0					
CALCIUM	5000	0.00E 0 / 13573.30E 0	2770 :V	3460 :V	5370 :V	5200 :V	4330 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	16.9 :JA	23.4 :V	75.9 :V#	64.2 :V#	42.1 :V#
COBALT	50	0.00E 0 / 24.80E 0	28.7 :V-	5.7 B:V-	8.8 B:V-	8.5 B:V-	8.3 B:V-
COPPER	25	1.10E 4 / 27.30E 0	17.2 :V	15.7 :V	43.4 :V#	38.9 :V#	25.1 :V
IRON	100	0.00E 0 / 28160.40E 0	15000 :V	13900 I:JA	18700 I:JA	17300 I:JA	17900 I:JA
LEAD	3	0.00E 0 / 61.40E 0	16.4 :JA	53 :V	62.4 :V#	50.3 :V	152 :V#
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1580 :V	2100 I:JA	4580 I:JA	4420 I:JA	2170 I:JA
MANGANESE	15	1.36E 3 / 2253.50E 0	129 :V	164 I:JA	323 I:JA	283 I:JA	190 I:JA
MERCURY	0.2	8.23E 1 / 0.20E 0	.11 :V	.051 B:V		.052 B:V	.066 B:V
NICKEL	40	5.49E 3 / 26.90E 0	13.9 :V	12.7 :V	30.2 :V#	27.5 :V#	14.4 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1260 :V	1580 I:JA	3390 I:JA	3260 I:JA	1850 I:JA
SELENIUM	5	1.37E 3 / 1.40E 0		.57 B:V	1.3 :V	1.1 :V	.72 B:V
SILVER	10	1.37E 3 / 10.00E 0	3.3 :JA	1.3 B:V	1.6 B:V	1.3 B:V	1.5 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0		480 B:V	87.6 B:JA	100 B:V	109 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	40.1 :V	31.6 I:JA	37 I:JA	33.9 I:JA	34.4 I:JA
ZINC	20	8.23E 4 / 86.60E 0	32.5 :V	65.7 :V	302 :V#	270 :V#	113 :V#
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.125(.025) :V#	.028(.012) :V	.052(.015) :V	.027(.011) :V	.025(.01) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	22.15(5.28) :V	29.26(6.26) :V	23.54(5.48) :V	25.78(5.73) :V	27.07(5.86) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	34.44(3.7) :V	42.85(4.27) :V	38.85(3.99) :V	39.97(4.07) :V	37.84(3.95) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.018(.012) :V	.04(.017) :V	.104(.033) :V	.09(.024) :V	.161(.033) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	-30.9(204) J:V-	-18.3(211) J:V-	-9.65(212) J:V-	-82(208) J:V-	39.56(214) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.518(.276) :V	1.503(.271) :V	1.609(.24) :V	1.681(.25) :V	1.328(.218) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.026(.03) J:V	.083(.051) :V	.037(.028) :V	.076(.039) :V	.085(.043) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.461(.268) :V	1.592(.282) :V	1.567(.236) :V	1.715(.253) :V	1.547(.243) :V

TABLE 3-26
Surface-Soil Positive Results
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS307193 SSG1764JE 6-Jul-94	SS307293 SSG1765JE 6-Jul-94	SS307393 SSG1766JE 6-Jul-94	SS307493 SSG1767JE 7-Jul-94	SS307693 SSG1768JE 7-Jul-94
Test Group:METADD Units: mg/kg							
CESIUM	1000	0.00E 0 / 630.80E 0			4 B:JA		
LITHIUM	100	0.00E 0 / 20.00E 0	8.3 B:JA	6 B:JA	7.3 B:JA	7.8 B:JA	5 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.9 B:V	1.4 B:V	4.1 B:V	3 B:V	1.5 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	31 B:JA	10.7 B:JA	22.6 B:JA	25.5 B:JA	15.4 B:JA
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	0.00E 0 / 21915.40E 0	7890 :V	4880 :V	10700 I:JA	10700 :V	4950 :V
ANTIMONY	60	1.10E 2 / 50.00E 0					
ARSENIC	10	3.66E-1 / 12.90E 0	4.7 :V*	3 :V*	5.9 :V*	6.6 :V*	2.3 :JA*
BARIUM	200	1.91E 4 / 528.00E 0	81.7 :V	64.1 :V	95.1 I:JA	85.8 :V	61.5 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.46 B:V*	.36 B:V*	.74 B:V*	.56 B:V*	.38 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0	.82 B:V	.7 B:V		1.6 :V	.34 B:V
CALCIUM	5000	0.00E 0 / 13573.30E 0	4780 :V	1430 :V	4990 :V	9370 :V	2290 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	32.5 :JA#	19.1 :JA	33.8 :V#	95.6 :JA#	42.5 :JA#
COBALT	50	0.00E 0 / 24.80E 0	6.3 B:V-	11.3 :V-	6.6 B:V-	12.1 :V-	3.6 B:V-
COPPER	25	1.10E 4 / 27.30E 0	38.1 :V#	15.1 :V	22.7 :V	145 :V#	12 :V
IRON	100	0.00E 0 / 28160.40E 0	14900 :V	9000 :V	15200 I:JA	14200 :V	8870 :V
LEAD	3	0.00E 0 / 61.40E 0	65.6 :JA#	12 :JA	128 :V#	118 :JA#	165 :JA#
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	3490 :V	1370 :V	2430 I:JA	2530 :V	1610 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	234 :V	143 :V	195 I:JA	240 :V	171 :V
MERCURY	0.2	8.23E 1 / 0.20E 0			.078 B:V		.06 B:V
NICKEL	40	5.49E 3 / 26.90E 0	17.2 :V	11.3 :V	14.3 :V	52.4 :V#	7.4 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	2850 :V	1170 :V	1980 I:JA	1500 :V	1740 :V
SELENIUM	5	1.37E 3 / 1.40E 0			.69 B:V		
SILVER	10	1.37E 3 / 10.00E 0	1.3 B:JA		1.6 B:V	1.5 B:JA	
SODIUM	5000	0.00E 0 / 1108.00E 0	117 B:V		98.8 B:V		142 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	26.7 :V	14.4 :V	31.3 I:JA	36.4 :V	16.3 :V
ZINC	20	8.23E 4 / 86.60E 0	170 :V#	50.4 :V	134 :V#	1220 :V#	85.5 :V
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.028(.011) :V	.046(.016) :V	.034(.012) :V	.121(.025) :V#	.197(.032) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	19.76(4.96) :V	29.7(6.21) :V	23.53(5.43) :V	34.75(6.92) :V	27.54(5.98) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	39.76(4.08) :V	38.38(3.97) :V	41.12(4.16) :V	48.54(4.67) :V	47.82(4.6) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.07(.02) :V		.169(.04) :V#	.152(.031) :V#	.026(.012) :V
TRITIUM	0	0.00E 0 / 545.96E 0	145.7(223) J:V-	67.65(203) J:V-	-108(207) J:V-	-21.2(205) J:V-	-51.1(203) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.833(.278) :V#	2.04(.396) :V#	1.184(.296) :A	1.596(.261) :V	1.769(.262) :V#
URANIUM-235	0	1.73E-1 / 19.83E-2	.093(.046) :V	.053(.053) J:V	.031(.045) J:A	.092(.048) :V	.066(.038) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.808(.275) :V	1.543(.326) :V	1.426(.333) :A	1.843(.29) :V	1.65(.249) :V

TABLE 3-26
Surface-Soil Positive Results
OU13 - IHSS 148
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS307693 SSG1769JE 7-Jul-94	SS307793 SSG1770JE 7-Jul-94
Test Group:METADD Units: mg/kg				
CESIUM	1000	0.00E 0 / 630.80E 0		
LITHIUM	100	0.00E 0 / 20.00E 0	7.8 B:JA	6.6 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	3.1 B:V	1.7 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	94.7 :JA#	21 B:JA
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	200	0.00E 0 / 21915.40E 0	12400 :V	7370 :V
ANTIMONY	60	1.10E 2 / 50.00E 0		
ARSENIC	10	3.66E-1 / 12.90E 0	7.2 :V*	4.3 :V*
BARIUM	200	1.91E 4 / 528.00E 0	203 :V	65.1 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.77 B:V*	.49 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0		
CALCIUM	5000	0.00E 0 / 13573.30E 0	4580 :V	4710 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	40.5 :JA#	20.6 :JA
COBALT	50	0.00E 0 / 24.80E 0	9.2 B:V-	4.6 B:V-
COPPER	25	1.10E 4 / 27.30E 0	19.8 :V	14.6 :V
IRON	100	0.00E 0 / 28160.40E 0	17200 :V	11000 :V
LEAD	3	0.00E 0 / 61.40E 0	44.3 :JA	40.6 :JA
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2960 :V	2060 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	356 :V	161 :V
MERCURY	0.2	8.23E 1 / 0.20E 0		
NICKEL	40	5.49E 3 / 26.90E 0	11 :V	11.8 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	2190 :V	1750 :V
SELENIUM	5	1.37E 3 / 1.40E 0		
SILVER	10	1.37E 3 / 10.00E 0		
SODIUM	5000	0.00E 0 / 1108.00E 0	139 B:V	
VANADIUM	50	1.92E 3 / 55.60E 0	35.4 :V	21.7 :V
ZINC	20	8.23E 4 / 86.60E 0	133 :V#	80.6 :V
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.188(.034) :V#	.092(.021) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	15.78(4.38) :V	33.46(6.75) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	34.51(3.71) :V	42.79(4.3) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.045(.016) :V	
TRITIUM	0	0.00E 0 / 545.96E 0	-57.9(203) J:V-	7.721(206) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.881(.281) :V#	1.656(.283) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.049(.033) :V	.081(.049) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	2.14(.309) :V#	1.506(.263) :V

† DOE 1994b
‡ DOE 1994d

TABLE 3-27
Surface-Soil Positive Results Data Summary
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:BNACLP Units: µg/kg							
2-METHYLNAPHTHALENE	330	340	SS300393 (4)	680	SS300393 (1)	34 J:A	SS301193 (1)
4H-Cyclopenta(def)phenanthrene	0	**	**	**	**	140 J:Y	SS300593 (1)
9,10-Anthracenedione	0	**	**	**	**	230 J:Y	SS300393 (1)
ACENAPHTHENE	330	340	SS300693 (2)	350	SS300893 (4)	51 J:Y	SS300793 (1)
ANTHRACENE	330	350	SS301093 (2)	350	SS301093 (2)	38 J:Y	SS300993 (1)
BENZO(a)ANTHRACENE	330	350	SS301093 (2)	350	SS301093 (2)	110 J:Y	SS300993 (1)
BENZO(a)PYRENE	330	350	SS301193 (1)	350	SS301193 (1)	76 J:A	SS301093 (1)
BENZO(b)FLUORANTHENE	330	350	SS301193 (1)	350	SS301193 (1)	92 J:A	SS301093 (1)
BENZO(ghi)PERYLENE	330	350	SS300993 (2)	350	SS300993 (2)	78 J:A	SS301093 (1)
BENZO(k)FLUORANTHENE	330	350	SS301093 (2)	350	SS301093 (2)	77 J:Y	SS300893 (1)
BENZOIC ACID	1600	1600	SS300393 (2)	3300	SS300393 (1)	71 J:Y	SS300893 (1)
BIS(2-ETHYLHEXYL)PHTHALATE	330	350	SS301193 (1)	350	SS301193 (1)	51 J:A	SS301393 (1)
BUTYL BENZYL PHTHALATE	330	340	SS300393 (5)	680	SS300393 (1)	50 J:Y	SS300493 (1)
Benzo[b]naphtho[1,2-d]thioph	0	**	**	**	**	360 J:Y	SS300493 (1)
Benzo[b]naphtho[2,1-d]thioph	0	**	**	**	**	230 J:Y	SS300393 (1)
CARBAZOLE	0	**	**	**	**	45 J:Y	SS300693 (1)
CHRYSENE	330	350	SS301193 (1)	350	SS301193 (1)	82 J:A	SS301093 (1)
DI-n-BUTYL PHTHALATE	330	340	SS300393 (7)	680	SS300393 (1)	35 J:Y	SS300993 (1)
DIBENZO(a,h)ANTHRACENE	330	350	SS300893 (4)	370	SS300793 (1)	42 J:Y	SS300693 (1)
DIBENZOFURAN	330	340	SS300593 (3)	680	SS300393 (1)	80 J:Y	SS300393 (1)
Dodecane	0	**	**	**	**	120 J:Y	SS300593 (1)
FLUORANTHENE	330	**	**	**	**	51 J:Y	SS301193 (1)
FLUORENE	330	340	SS300693 (2)	370	SS300793 (1)	77 J:Y	SS300593 (1)
INDENO(1,2,3-cd)PYRENE	330	350	SS301193 (1)	350	SS301193 (1)	56 J:Y	SS300993 (1)
NAPHTHALENE	330	340	SS300593 (3)	680	SS300393 (1)	55 J:Y	SS300393 (1)
PENTACHLOROPHENOL	1600	1600	SS300393 (3)	3300	SS300393 (1)	62 J:Y	SS300993 (1)
PHENANTHRENE	330	**	**	**	**	39 J:Y	SS301193 (1)
PYRENE	330	**	**	**	**	42 J:Y	SS301193 (1)

TABLE 3-27
Surface-Soil Positive Results Data Summary
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:BNACLP Units: µg/kg					
2-METHYLNAPHTHALENE	220 J:Y	SS300493 (1)	5	15	174.7333
4H-Cyclopenta(def)phenanthrene	980 J:Y	SS300493 (1)	4	4	492.5
9,10-Anthracenedione	230 J:Y	SS300393 (1)	1	1	230
ACENAPHTHENE	1000 :Y	SS300493 (1)	9	15	329.4
ANTHRACENE	1800 :Y	SS300493 (1)	13	15	481.2
BENZO(a)ANTHRACENE	4600 E:Y	SS300493 (1)	13	15	1272.667
BENZO(a)PYRENE	4400 E:Y	SS300493 (1)	14	15	1300.733
BENZO(b)FLUORANTHENE	6300 E:Y	SS300493 (1)	14	15	1760.467
BENZO(ghi)PERYLENE	2300 D:Y	SS300493 (1)	14	16	778.375
BENZO(k)FLUORANTHENE	1700 :Y	SS300493 (1)	13	15	553.6667
BENZOIC ACID	200 J:A	SS301193 (1)	5	14	640.5
BIS(2-ETHYLHEXYL)PHTHALATE	3700 D:V	SS301093 (1)	14	15	664.6667
BUTYL BENZYL PHTHALATE	150 J:A	SS301293 (1)	3	13	171.5385
Benzo[b]naphtho[1,2-d]thioph	360 J:Y	SS300493 (1)	1	1	360
Benzo[b]naphtho[2,1-d]thioph	230 J:Y	SS300393 (1)	1	1	230
CARBAZOLE	1100 J:Y	SS300493 (1)	7	7	510.7143
CHRYSENE	3900 E:Y	SS300493 (1)	16	17	1356.882
DI-n-BUTYL PHTHALATE	130 J:Y	SS300793 (1)	4	14	154
DIBENZO(a,h)ANTHRACENE	710 DJ:Y	SS300493 (1)	12	17	284.4118
DIBENZOFURAN	420 :Y	SS300493 (1)	6	15	210.6
Dodecane	120 J:Y	SS300593 (1)	1	1	120
FLUORANTHENE	6600 D:Y	SS300493 (1)	16	16	2175.063
FLUORENE	850 :Y	SS300493 (1)	8	15	296.1333
INDENO(1,2,3-cd)PYRENE	2500 D:Y	SS300493 (1)	15	16	844.4375
NAPHTHALENE	550 :Y	SS300493 (1)	5	15	236.9333
PENTACHLOROPHENOL	62 J:Y	SS300993 (1)	1	14	847.2857
PHENANTHRENE	5500 D:Y	SS300493 (1)	15	15	1685.267
PYRENE	7000 E:Y	SS300493 (1)	15	15	2076.133

TABLE 3-27
Surface-Soil Positive Results Data Summary
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:METADD Units: mg/kg							
CESIUM	1000	7.5	SS300393 (1)	7.9	SS301293 (1)	8 B:J	SS301393 (1)
LITHIUM	100	**	**	**	**	4.3 B:J	SS300693 (1)
MOLYBDENUM	200	1.3	SS301393 (1)	2.9	SS300993 (1)	6.2 B:V	SS301193 (1)
STRONTIUM	200	**	**	**	**	11.3 B:J	SS300693 (1)
TIN	200	2.1	SS300493 (2)	2.7	SS301093 (2)	4.5 B:J	SS300393 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	4240 :V	SS300693 (1)
ARSENIC	10	**	**	**	**	2.2 :J	SS301393 (1)
BARIUM	200	**	**	**	**	39 B:V	SS300693 (1)
BERYLLIUM	5	0.29	SS300693 (1)	0.31	SS301393 (1)	.5 B:V	SS300393 (1)
CADMIUM	5	0.16	SS300593 (3)	0.27	SS300393 (1)	.46 B:V	SS301293 (1)
CALCIUM	5000	**	**	**	**	2000 :V	SS300693 (1)
CHROMIUM	10	**	**	**	**	5.3 :V	SS300693 (1)
COBALT	50	**	**	**	**	2.9 B:V	SS300693 (1)
COPPER	25	**	**	**	**	12.2 :V	SS301393 (1)
IRON	100	**	**	**	**	7720 :V	SS300693 (1)
LEAD	3	**	**	**	**	10 :J	SS301393 (1)
MAGNESIUM	5000	**	**	**	**	1380 :V	SS300693 (1)
MANGANESE	15	**	**	**	**	116 :V	SS300693 (1)
MERCURY	0.2	0.05	SS301393 (1)	0.05	SS301093 (1)	.052 B:V	SS300993 (1)
NICKEL	40	**	**	**	**	3.2 B:V	SS300693 (1)
POTASSIUM	5000	**	**	**	**	1100 :V	SS300693 (1)
SILVER	10	0.83	SS300693 (1)	0.86	SS300893 (1)	.91 B:V	SS301293 (1)
SODIUM	5000	**	**	**	**	109 B:V	SS301193 (1)
VANADIUM	50	**	**	**	**	12.6 :V	SS300693 (1)
ZINC	20	**	**	**	**	44.2 :V	SS301393 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.006	**	**	**	**	.007(.006) :V	SS300893 (2)
GROSS ALPHA	2.92	**	**	**	**	18.44(4.72) :V	SS301093 (1)
GROSS BETA	2.58	**	**	**	**	20.96(3.71) :V	SS300893 (1)
PLUTONIUM-239/240	0.013	**	**	**	**	.011(.008) :V	SS300793 (1)
TRITIUM	240	**	**	**	**	-239(205) J:V	SS300693 (1)
URANIUM-233,-234	0.035	**	**	**	**	.99(.245) :V	SS301193 (1)
URANIUM-235	0.025	**	**	**	**	.029(.022) :V	SS301093 (1)
URANIUM-238	0.021	**	**	**	**	1.288(.191) :V	SS301093 (1)

TABLE 3-27
Surface-Soil Positive Results Data Summary
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
CESIUM	10.5 B:J	SS301193 (1)	9	11	8.2818
LITHIUM	8.5 B:J	SS300993 (1)	11	11	6.7545
MOLYBDENUM	6.2 B:V	SS301193 (1)	1	11	1.5136
STRONTIUM	39.3 B:J	SS300793 (1)	11	11	19.3182
TIN	4.5 B:J	SS300393 (1)	1	11	1.4636
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	12300 :V	SS301193 (1)	11	11	8143.636
ARSENIC	7.1 :V	SS301193 (1)	11	11	4.8818
BARIUM	162 :V	SS300793 (1)	11	11	80.9909
BERYLLIUM	.84 B:V	SS301193 (1)	9	11	0.5345
CADMIUM	.46 B:V	SS301293 (1)	1	11	0.13
CALCIUM	10800 :V	SS301093 (1)	11	11	4947.273
CHROMIUM	14.3 :V	SS301193 (1)	11	11	10.7
COBALT	6.9 B:V	SS301093 (1)	11	11	5.0727
COPPER	143 :V	SS300393 (1)	11	11	27.5727
IRON	18200 :V	SS301093 (1)	11	11	12783.64
LEAD	129 :V	SS301193 (1)	11	11	33.9636
MAGNESIUM	4570 :V	SS301093 (1)	11	11	2481.818
MANGANESE	1240 :V	SS300793 (1)	11	11	309.7273
MERCURY	.087 B:V	SS300493 (1)	8	11	0.0539
NICKEL	14.7 :V	SS301193 (1)	11	11	8.5
POTASSIUM	2290 :V	SS301093 (1)	11	11	1584.545
SILVER	1.4 B:V	SS301093 (1)	8	11	0.8868
SODIUM	511 B:V	SS301093 (1)	11	11	192.5455
VANADIUM	40.1 :V	SS301193 (1)	11	11	26.2273
ZINC	101 :V	SS301293 (1)	11	11	63.4818
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.081(.02) :Y	SS300393 (1)	13	13	0.0269
GROSS ALPHA	32.99(6.73) :V	SS300693 (1)	13	13	25.7346
GROSS BETA	51.23(5.95) :V	SS300393 (1)	13	13	38.93
PLUTONIUM-239/240	.208(.052) :V	SS301293 (1)	13	13	0.0665
TRITIUM	206.9(213) J:V	SS300893 (1)	13	13	21.7462
URANIUM-233,-234	3.242(.586) :A	SS300493 (1)	13	13	1.8117
URANIUM-235	.122(.082) :A	SS300493 (1)	13	13	0.0686
URANIUM-238	5.265(.864) :A	SS300493 (1)	13	13	2.2118

TABLE 3-27
Surface-Soil Positive Results Data Summary
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-28
Surficial Soil Positive Results
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡		SS300393 SSG1696JE 7-Jun-94	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300593 SSG1698JE 7-Jun-94	SS300693 SSG1699JE 7-Jun-94	SS300793 SSG1700JE 6-Jun-94	SS300893 SSG1701JE 6-Jun-94
Test Group:BNACLP Units: µg/kg										
2-METHYLNAPHTHALENE	330	0.00E 0 /	0.00E 0		220 J:Y-	86 DJ:Y-				
4H-Cyclopenta(def)phenanthrene	0	0.00E 0 /	0.00E 0	340 J:Y-	980 J:Y-	510 J:Y-	140 J:Y-			
9,10-Anthracenedione	0	0.00E 0 /	0.00E 0	230 J:Y-						
ACENAPHTHENE	330	1.65E 7 /	0.00E 0	230 J:Y	1000 :Y	560 DJ:Y	90 J:Y		51 J:Y	
ANTHRACENE	330	8.23E 7 /	0.00E 0	570 :Y	1800 :Y	890 D:Y	190 J:Y	82 J:Y	63 J:Y	
BENZO(a)ANTHRACENE	330	8.77E 2 /	0.00E 0	2100 :Y*	4600 E:Y*	2700 D:Y*	550 :Y	270 J:Y	180 J:Y	97 J:Y
BENZO(a)PYRENE	330	8.77E 1 /	0.00E 0	2300 :Y*	4400 E:Y*	3000 D:Y*	670 :Y*	330 J:Y*	220 J:Y*	120 J:Y*
BENZO(b)FLUORANTHENE	330	8.77E 2 /	0.00E 0	2900 E:Y*	6300 E:Y*	3300 D:Y*	830 :Y	420 :Y	260 J:Y	140 J:Y
BENZO(ghi)PERYLENE	330	0.00E 0 /	0.00E 0	1100 :Y-	2000 :Y-	2200 D:Y-	260 J:Y-	130 J:Y-	90 J:Y-	
BENZO(k)FLUORANTHENE	330	8.77E 3 /	0.00E 0	1200 :Y	1700 :Y	1100 D:Y	350 :Y	160 J:Y	110 J:Y	60 J:Y
BENZOIC ACID	1600	1.10E 9 /	0.00E 0		76 J:Y	52 J:Y				
BIS(2-ETHYLHEXYL)PHTHALATE	330	4.57E 4 /	0.00E 0	160 J:Y	420 :Y	970 D:Y	76 J:Y	130 J:Y	1800 :Y	100 J:Y
BUTYL BENZYL PHTHALATE	330	5.49E 7 /	0.00E 0		50 J:Y				140 J:Y	
Benzo[b]naphtho[1,2-d]thioph	0	E 0 /	E 0		360 J:Y-					
Benzo[b]naphtho[2,1-d]thioph	0	E 0 /	E 0	230 J:Y-						
CARBAZOLE	0	E 0 /	E 0	360 J:Y-	1100 J:Y-	530 J:Y-	120 J:Y-	45 J:Y-		
CHRYSENE	330	8.77E 4 /	0.00E 0	2200 :Y	3900 E:Y	2800 D:Y	670 :Y	330 J:Y	220 J:Y	120 J:Y
DI-n-BUTYL PHTHALATE	330	2.74E 7 /	0.00E 0						130 J:Y	38 J:Y
DIBENZO(a,h)ANTHRACENE	330	8.77E 1 /	0.00E 0	360 :Y*	610 :Y*	640 DJ:Y*	86 J:Y	42 J:Y		
DIBENZOFURAN	330	0.00E 0 /	0.00E 0	80 J:Y-	420 :Y-	190 J:Y-				
Dodecane	0	E 0 /	E 0				120 J:Y-			
FLUORANTHENE	330	1.10E 7 /	0.00E 0	3100 E:Y	6200 E:Y	4700 D:Y	1200 :Y	570 :Y	460 :Y	270 J:Y
FLUORENE	330	1.10E 7 /	0.00E 0	210 J:Y	850 :Y	440 DJ:Y	77 J:Y			
INDENO(1,2,3-cd)PYRENE	330	8.77E 2 /	0.00E 0	1300 :Y*	2200 :Y*	2400 D:Y*	300 J:Y	150 J:Y	110 J:Y	85 J:Y
NAPHTHALENE	330	0E 0 /	0.00E 0	55 J:Y	550 :Y	210 DJ:Y				
PENTACHLOROPHENOL	1600	5.34E 3 /	0.00E 0							
PHENANTHRENE	330	0.00E 0 /	0.00E 0	2300 :Y-	5400 E:Y-	3700 D:Y-	860 :Y-	390 :Y-	330 J:Y-	190 J:Y-
PYRENE	330	8.23E 6 /	0.00E 0	3200 E:Y	7000 E:Y	4600 D:Y	1100 :Y	510 :Y	410 :Y	230 J:Y

TABLE 3-28
Surficial Soil Positive Results
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS300393 SSG1696JE 7-Jun-94	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300593 SSG1698JE 7-Jun-94	SS300693 SSG1699JE 7-Jun-94	SS300793 SSG1700JE 6-Jun-94	SS300893 SSG1701JE 6-Jun-94
Test Group:METADD Units: mg/kg									
CESIUM	1000	0.00E 0 / 630.80E 0		8.2 B:JA	10.4 B:JA	10.3 B:JA	10.1 B:JA	8.8 B:JA	8.4 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.3 B:JA	6.8 B:JA	7.1 B:JA	6.5 B:JA	4.3 B:JA	6.7 B:JA	6.1 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0							
STRONTIUM	200	1.65E 5 / 90.10E 0	12.9 B:JA	16.9 B:JA	16.7 B:JA	27.4 B:JA	11.3 B:JA	39.3 B:JA	21.2 B:JA
TIN	200	1.65E 5 / 75.90E 0	4.5 B:JA						
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	200	0.00E 0 / 21915.40E 0	6470 :V	8410 :V	9060 :V	8310 :V	4240 :V	8730 :V	7380 :V
ARSENIC	10	3.66E-1 / 12.90E 0	3.5 :V*	4.8 :V*	4.9 :V*	4.8 :V*	2.7 :V*	6.3 :V*	5.2 :V*
BARIUM	200	1.91E 4 / 528.00E 0	57.5 :V	76.9 :V	76.4 :V	71.9 :V	39 B:V	162 :V	63.5 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.5 B:V*	.57 B:V*	.58 B:V*	.58 B:V*		.58 B:V*	.58 B:V*
CADMIUM	5	1.37E 2 / 5.00E 0							
CALCIUM	5000	0.00E 0 / 13573.30E 0	3710 :V	3940 :V	3730 :V	5920 :V	2000 :V	6530 :V	4690 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	11.5 :JA	12.2 :V	12.7 :V	10.3 :V	5.3 :V	9.6 :V	8.5 :V
COBALT	50	0.00E 0 / 24.80E 0	4.9 B:V	4.6 B:V	4.5 B:V	5.4 B:V	2.9 B:V	6.5 B:V	4.4 B:V
COPPER	25	1.10E 4 / 27.30E 0	143 :V#	15.5 :V	14.6 :V	17.1 :V	13.1 :V	15.8 :V	15 :V
IRON	100	0.00E 0 / 28160.40E 0	11100 :V	11100 :V	11300 :V	12700 :V	7720 :V	13900 :V	11100 :V
LEAD	3	0.00E 0 / 61.40E 0	36.2 :V	32 :V	69.5 :V#	15.1 :V	12.1 :V	17.2 :V	11.8 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2260 :V	1880 :V	1920 :V	2530 :V	1380 :V	2500 :V	2360 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	177 :V	163 :V	145 :V	204 :V	116 :V	1240 :V	172 :V
MERCURY	0.2	8.23E 1 / 0.20E 0	.056 B:V	.081 :V	.087 B:V	.056 B:V		.061 B:V	.055 B:V
NICKEL	40	5.49E 3 / 26.90E 0	7.9 B:V	8.6 :V	9.2 :V	7.6 B:V	3.2 B:V	10 :V	6.9 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1350 :V	1430 :V	1440 :V	1430 :V	1100 :V	1670 :V	1390 :V
SILVER	10	1.37E 3 / 10.00E 0	.93 B:V		1.1 B:V			1.1 B:V	
SODIUM	5000	0.00E 0 / 1108.00E 0	128 B:V	138 B:V	120 B:V	148 B:V	143 B:V	185 B:V	145 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	21.5 :V	26.1 :V	27 :V	24.2 :V	12.6 :V	30.5 :V	23.1 :V
ZINC	20	8.23E 4 / 86.60E 0	64.8 :V	45.2 :V	44.2 :V	48.4 :V	53.3 :V	77.6 :V	49.3 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.081(.02) :Y#	.027(.01) :V	.028(.012) :V	.067(.018) :V#	.026(.011) :V	.01(.007) :V	.012(.008) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	29.27(6.17) :V	27.87(5.97) :V	27.35(6.02) :V	24.62(5.61) :V	32.99(6.73) :V	23.56(5.58) :V	25.8(5.9) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	51.23(5.95) :V	43.22(5.4) :V	22.17(3.74) :V	41.43(5.28) :V	47.82(5.76) :V	32.95(4.59) :V	20.96(3.71) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.07(.024) :V	.078(.025) :V	.195(.047) :V#	.098(.025) :V	.033(.016) :V	.011(.008) :V	.041(.015) :V
TRITIUM	0	0E 0 / 545.96E 0	-54.9(214) J:V	-28.9(215) J:V	25.02(204) J:V	-77(213) J:V	-239(205) J:V	83.74(207) J:V	206.9(213) J:V
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.422(.28) :V	3.242(.586) :A#	2.573(.36) :V#	1.98(.459) :A#	1.571(.313) :V	1.236(.208) :V	3.185(.461) :V#
URANIUM-235	0	1.73E-1 / 19.83E-2	.061(.049) :V	.122(.082) :A	.087(.044) :V	.095(.086) J:A	.049(.047) J:V	.06(.036) :V	.116(.057) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.737(.321) :V	5.265(.864) :A#	4.321(.552) :V#	1.788(.428) :A	1.48(.3) :V	1.331(.219) :V	3.975(.553) :V#

TABLE 3-28
Surficial Soil Positive Results
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡		SS300893 SSG1802JE 6-Jun-94	SS300993 SSG1702JE 6-Jun-94	SS301093 SSG1703JE 2-Jun-94	SS301193 SSG1704JE 7-Jun-94	SS301193 SSG1799JE 5-Aug-94	SS301293 SSG1705JE 2-Jun-94	SS301393 SSG1706JE 2-Jun-94
Test Group:BNACLP Units: µg/kg										
2-METHYLNAPHTHALENE	330	0.00E 0 /	0.00E 0					34 J:A-	82 J:A-	
4H-Cyclopenta(def)phenanthrene	0	0.00E 0 /	0.00E 0							
9,10-Anthracenedione	0	0.00E 0 /	0.00E 0							
ACENAPHTHENE	330	1.65E 7 /	0.00E 0					230 J:A	380 :V	
ANTHRACENE	330	8.23E 7 /	0.00E 0	43 J:Y	38 J:Y			230 J:A	440 :V	72 J:A
BENZO(a)ANTHRACENE	330	8.77E 2 /	0.00E 0	140 J:Y	110 J:Y			540 :V	790 :V	260 J:A
BENZO(a)PYRENE	330	8.77E 1 /	0.00E 0	170 J:Y*	150 J:Y*	76 J:A		670 :V*	850 :V*	300 J:A*
BENZO(b)FLUORANTHENE	330	8.77E 2 /	0.00E 0	210 J:Y	220 J:Y	92 J:A		880 :V*	960 :V*	360 :V
BENZO(ghi)PERYLENE	330	0.00E 0 /	0.00E 0	96 J:Y-		78 J:A-		370 :V-	660 :V-	270 J:A-
BENZO(k)FLUORANTHENE	330	8.77E 3 /	0.00E 0	77 J:Y	78 J:Y			320 J:A	360 J:A	110 J:A
BENZOIC ACID	1600	1.10E 9 /	0.00E 0	71 J:Y	94 J:Y			200 J:A		
BIS(2-ETHYLHEXYL)PHTHALATE	330	4.57E 4 /	0.00E 0	63 J:Y	88 J:Y	3700 D:V		200 J:A	590 :V	51 J:A
BUTYL BENZYL PHTHALATE	330	5.49E 7 /	0.00E 0						150 J:A	
Benzo[b]naphtho[1,2-d]thioph	0	E 0 /	E 0							
Benzo[b]naphtho[2,1-d]thioph	0	E 0 /	E 0							
CARBAZOLE	0	E 0 /	E 0							
CHRYSENE	330	8.77E 4 /	0.00E 0	160 J:Y	150 J:Y	82 J:A		700 :V	940 :V	340 J:A
DI-n-BUTYL PHTHALATE	330	2.74E 7 /	0.00E 0	38 J:Y	35 J:Y				73 J:A	
DIBENZO(a,h)ANTHRACENE	330	8.77E 1 /	0.00E 0					120 J:A*	180 J:A*	72 J:A
DIBENZOFURAN	330	0.00E 0 /	0.00E 0					84 J:A-	160 J:A-	
Dodecane	0	E 0 /	E 0							
FLUORANTHENE	330	1.10E 7 /	0.00E 0	350 :Y	290 J:Y	120 J:A	51 J:Y	1500 :V	2000 :V	460 :V
FLUORENE	330	1.10E 7 /	0.00E 0					160 J:A	270 J:A	
INDENO(1,2,3-cd)PYRENE	330	8.77E 2 /	0.00E 0	120 J:Y	56 J:Y	70 J:A		440 :V	750 :V	280 J:A
NAPHTHALENE	330	0E 0 /	0.00E 0					74 J:A		
PENTACHLOROPHENOL	1600	5.34E 3 /	0.00E 0		62 J:Y					
PHENANTHRENE	330	0.00E 0 /	0.00E 0	220 J:Y-	220 J:Y-	100 J:A-	39 J:Y-	1300 :V-	2000 :V-	320 J:A-
PYRENE	330	8.23E 6 /	0.00E 0	280 J:Y	270 J:Y	120 J:A	42 J:Y	1200 :V	1500 :V	410 :V

TABLE 3-28
Surficial Soil Positive Results
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS300893 SSG1802JE 6-Jun-94	SS300993 SSG1702JE 6-Jun-94	SS301093 SSG1703JE 2-Jun-94	SS301193 SSG1704JE 7-Jun-94	SS301193 SSG1799JE 5-Aug-94	SS301293 SSG1705JE 2-Jun-94	SS301393 SSG1706JE 2-Jun-94
Test Group:METADD Units: mg/kg									
CESIUM	1000	0.00E 0 / 630.80E 0	8.6 B:JA	8.2 B:JA	8.5 B:JA	10.5 B:JA			8 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.7 B:JA	8.5 B:JA	6.9 B:JA	8 B:JA		5.8 B:JA	7.5 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0				6.2 B:V			
STRONTIUM	200	1.65E 5 / 90.10E 0	23 B:JA	19 B:JA	23.4 B:JA	13.2 B:JA		14.5 B:JA	11.6 B:JA
TIN	200	1.65E 5 / 75.90E 0							
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	200	0.00E 0 / 21915.40E 0	8240 :V	11500 :V	8240 :V	12300 :V		6930 :V	5560 :V
ARSENIC	10	3.66E-1 / 12.90E 0	5.7 :V*	6.9 :V*	4.5 :V*	7.1 :V*		5.1 :V*	2.2 :JA*
BARIUM	200	1.91E 4 / 528.00E 0	68.7 :V	70.5 :V	78.6 :V	73.2 :V		138 :V	54.6 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.58 B:V*	.75 B:V*	.65 B:V*	.84 B:V*		.52 B:V*	
CADMIUM	5	1.37E 2 / 5.00E 0						.46 B:V	
CALCIUM	5000	0.00E 0 / 13573.30E 0	4520 :V	5040 :V	10800 :V	5360 :V		3670 :V	2760 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	9.3 :V	12.9 :V	8.5 :V	14.3 :V		13.8 :V	9.5 :V
COBALT	50	0.00E 0 / 24.80E 0	4.8 B:V	5.3 B:V	6.9 B:V	5.3 B:V		5.1 B:V	4.1 B:V
COPPER	25	1.10E 4 / 27.30E 0	15.5 :V	15.6 :V	19.1 :V	16.8 :V		19.6 :V	12.2 :V
IRON	100	0.00E 0 / 28160.40E 0	12700 :V	15700 :V	18200 :V	14700 :V		12900 :V	9700 :V
LEAD	3	0.00E 0 / 61.40E 0	12.6 :V	20.6 :V	13.1 :JA	129 :V#		38.2 :JA	10 :JA
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	2540 :V	2710 :V	4570 :V	1960 :V		2860 :V	2070 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	180 :V	213 :V	396 :V	205 :V		377 :V	136 :V
MERCURY	0.2	8.23E 1 / 0.20E 0	.059 B:V	.052 B:V		.084 B:V		.065 B:V	
NICKEL	40	5.49E 3 / 26.90E 0	7.5 B:V	10.2 :V	7.4 B:V	14.7 :V		8.7 :V	7.1 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1510 :V	2150 :V	2290 :V	1560 :V		1590 :V	1340 :V
SILVER	10	1.37E 3 / 10.00E 0		1.1 B:V	1.4 B:V	.95 B:V		.91 B:V	1 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0	156 B:V	325 B:V	511 B:V	109 B:V		129 B:V	146 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	26.5 :V	31 :V	28.8 :V	40.1 :V		28.3 :V	18 :V
ZINC	20	8.23E 4 / 86.60E 0	47.4 :V	89.5 :V#	57 :V	68 :V		101 :V#	44.2 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.007(.006) :V	.012(.008) :V	.011(.008) :V	.024(.013) :V		.038(.015) :V	.007(.006) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	19.45(5.11) :V	25.54(5.93) :V	18.44(4.72) :V	23.18(5.39) :V		25.88(5.87) :V	30.6(6.33) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	35.34(4.84) :V	42.28(5.33) :V	36.28(3.84) :V	41.1(5.24) :V		40.68(4.11) :V	50.63(4.8) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.015(.01) :V	.013(.008) :V	.013(.008) :V	.062(.021) :V		.208(.052) :V#	.027(.015) :V
TRITIUM	0	0E 0 / 545.96E 0	45.24(205) J:V	92.4(207) J:V	135.1(212) J:V	-30.8(215) J:V		76.79(209) J:V	48.11(208) J:V
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.203(.2) :V	1.556(.253) :V	1.05(.165) :V	.99(.245) :V		1.275(.195) :V	2.269(.31) :V#
URANIUM-235	0	1.73E-1 / 19.83E-2	.031(.026) :V	.045(.034) :V	.029(.022) :V	.05(.049) J:V		.069(.035) :V	.078(.039) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.38(.22) :V	1.434(.238) :V	1.288(.191) :V	1.436(.312) :V		1.289(.197) :V	2.03(.284) :V#

TABLE 3-28
Surficial Soil Positive Results
OU13 - IHSS 157.1
Rocky Flats Environmental Technology Site

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
BKGND = Background concentration (DOE 1994c)
I = Interference with target peak
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
PRG = Preliminary Remediation Goal
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no nondetects reported
# = Indicates compound exceeds background
- = There is no PRG for that compound
† = † DOE 1994b
‡ = ‡ DOE 1994d

TABLE 3-29
Surface-Soil Positive Results Data Summary
OU13 - IHSS 117.3
Rocky Flats Environmental Technology Site

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentratio Location *
Test Group:METADD Units: mg/kg							
CESIUM	1000	3.1	SS308093 (1)	3.1	SS308093 (1)	3.9 B:J	SS307893 (2)
LITHIUM	100	**	**	**	**	4.6 B:J	SS308693 (1)
MOLYBDENUM	200	**	**	**	**	1.9 :V	SS308893 (1)
STRONTIUM	200	**	**	**	**	12.7 B:J	SS308893 (1)
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	200	**	**	**	**	3390 I:J	SS308893 (1)
ARSENIC	10	2.7	SS308893 (1)	3.1	SS308793 (1)	3.5 :V	SS307893 (1)
BARIUM	200	**	**	**	**	57.3 I:J	SS308893 (1)
BERYLLIUM	5	**	**	**	**	.28 B:V	SS308893 (1)
CALCIUM	5000	**	**	**	**	1290 :V	SS308893 (1)
CHROMIUM	10	**	**	**	**	6.4 :V	SS308893 (1)
COBALT	50	**	**	**	**	3.7 B:V	SS307893 (1)
COPPER	25	**	**	**	**	8.7 :V	SS307893 (2)
IRON	100	**	**	**	**	6330 I:J	SS308893 (1)
LEAD	3	**	**	**	**	8 :V	SS308893 (1)
MAGNESIUM	5000	**	**	**	**	1240 I:J	SS308893 (1)
MANGANESE	15	**	**	**	**	97.4 I:J	SS308593 (1)
MERCURY	0.2	0.04	SS307893 (1)	0.05	SS308393 (2)	.066 B:V	SS308693 (1)
NICKEL	40	**	**	**	**	5.7 B:V	SS308893 (1)
POTASSIUM	5000	**	**	**	**	857 B:J	SS308593 (1)
SELENIUM	5	0.55	SS307893 (1)	0.59	SS308793 (2)	.71 B:V	SS308493 (1)
SILVER	10	0.81	SS307893 (1)	0.85	SS308693 (1)	1.2 B:V	SS308093 (4)
SODIUM	5000	57.6	SS308093 (1)	74.8	SS308593 (1)	83.2 B:V	SS308793 (1)
VANADIUM	50	**	**	**	**	9.8 B:J	SS308893 (1)
ZINC	20	**	**	**	**	24.2 :V	SS308893 (1)
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	0.007	**	**	**	**	.002(.005) J:V	SS308793 (1)
GROSS ALPHA	3.39	**	**	**	**	19.17(4.86) :V	SS308693 (1)
GROSS BETA	2.67	**	**	**	**	33.84(3.7) :V	SS307993 (1)
PLUTONIUM-239/240	0.007	**	**	**	**	.02(.013) :V	SS307993 (1)
TRITIUM	250	**	**	**	**	-66.6(204) J:V	SS308893 (1)
URANIUM-233,-234	0.037	**	**	**	**	.87(.159) :V	SS308493 (1)
URANIUM-235	0.033	**	**	**	**	.022(.033) J:V	SS308093 (1)
URANIUM-238	0.03	**	**	**	**	.935(.167) :V	SS308493 (1)

TABLE 3-29
Surface-Soil Positive Results Data Summary
OU13 - IHSS 117.3
Rocky Flats Environmental Technology Site

	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg					
CESIUM	5.9 B:J	SS307993 (2)	10	11	4.2045
LITHIUM	8.2 B:J	SS308493 (1)	11	11	5.9273
MOLYBDENUM	4.2 B:V	SS308493 (2)	11	11	3.1
STRONTIUM	30.5 B:J	SS307993 (1)	11	11	17.0455
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	13800 I:J	SS308593 (1)	11	11	8893.637
ARSENIC	9.4 :V	SS308593 (1)	9	11	5.3818
BARIUM	133 I:J	SS308393 (1)	11	11	78.1909
BERYLLIUM	1.1 :V	SS307993 (3)	11	11	0.6945
CALCIUM	13000 :V	SS307993 (1)	11	11	4449.091
CHROMIUM	24.1 :V	SS308193 (1)	11	11	14.1364
COBALT	53.5 :V	SS308893 (1)	11	11	10.6636
COPPER	17.6 :V	SS308893 (1)	11	11	12.0182
IRON	16300 I:J	SS308493 (1)	11	11	11496.36
LEAD	90.6 :V	SS308193 (1)	11	11	37.9818
MAGNESIUM	2530 I:J	SS308493 (1)	11	11	1673.636
MANGANESE	461 I:J	SS308193 (1)	11	11	201.3091
MERCURY	.15 :V	SS308593 (1)	7	11	0.0694
NICKEL	14.8 :V	SS308493 (1)	11	11	10.2182
POTASSIUM	1460 I:J	SS307993 (1)	11	11	1109.455
SELENIUM	1.5 :V	SS308593 (1)	6	11	0.6668
SILVER	2.7 :V	SS307993 (1)	9	11	1.3482
SODIUM	201 B:V	SS308393 (1)	6	11	84.4409
VANADIUM	42.4 I:J	SS308593 (1)	11	11	25
ZINC	1580 :V	SS308193 (1)	11	11	305.9273
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.062(.017) :V	SS308493 (1)	12	12	0.0292
GROSS ALPHA	26.01(5.82) :V	SS307893 (1)	12	12	22.8508
GROSS BETA	41.58(4.18) :V	SS308393 (1)	12	12	37.4167
PLUTONIUM-239/240	.385(.06) :V	SS308493 (1)	10	10	0.1381
TRITIUM	156.6(207) J:V	SS308793 (1)	12	12	21.5992
URANIUM-233,-234	2.261(.348) :V	SS308793 (1)	12	12	1.3416
URANIUM-235	.097(.059) :V	SS308593 (1)	12	12	0.0533
URANIUM-238	1.952(.282) :V	SS308893 (1)	12	12	1.3613

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
MDL = Method Detection Limit
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
SQL = Sample Quantitation Limit
V = Validation Qualifier: valid data
X = result by calculation defined in GRRASP
µg/kg = micrograms per kilogram
* = indicated compound exceeds PRG
** = All samples reported with positive results; no "none detected" reported

TABLE 3-30
Surface-Soil Positive Results
OU13 - IHSS 117.3
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS307893 SSG1772JE 8-Jul-94	SS307993 SSG1773JE 8-Jul-94	SS307993 SSG1832JE 8-Jul-94	SS308093 SSG1774JE 11-Jul-94
Test Group:METADD Units: mg/kg						
CESIUM	1000	0.00E 0 / 630.80E 0	3.9 B:JA		5.9 B:JA	
LITHIUM	100	0.00E 0 / 20.00E 0	5.9 B:JA	7.2 B:JA	7.2 B:JA	6.1 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.6 B:V	3.8 B:V	3.6 B:V	2.9 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	13.4 B:JA	30.5 B:JA	29.5 B:JA	14.4 B:JA
Test Group:SMETCLP Units: mg/kg						
ALUMINUM	200	0.00E 0 / 21915.40E 0	5510 I:JA	13000 I:JA	13000 I:JA	9600 I:JA
ARSENIC	10	3.66E-1 / 12.90E 0	3.5 :V*	8.4 :V*	8.6 :V*	4.8 :V*
BARIUM	200	1.91E 4 / 528.00E 0	83.3 I:JA	98.5 I:JA	96.5 I:JA	61.2 I:JA
BERYLLIUM	5	1.49E-1 / 5.20E 0	.36 B:V*	1.1 :V*	1 :V*	.66 B:V*
CALCIUM	5000	0.00E 0 / 13573.30E 0	1820 :V	13000 :V	11300 :V	3290 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	8.6 :V	16.4 :V	16.1 :V	14.7 :V
COBALT	50	0.00E 0 / 24.80E 0	3.7 B:V-	6.3 B:V-	6.1 B:V-	5.1 B:V-
COPPER	25	1.10E 4 / 27.30E 0	8.7 :V	11.3 :V	11.6 :V	13.2 :V
IRON	100	0.00E 0 / 28160.40E 0	8940 I:JA	14500 I:JA	14700 I:JA	11500 I:JA
LEAD	3	0.00E 0 / 61.40E 0	16.6 :V	19.6 :V	18 :V	41.9 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1540 I:JA	2150 I:JA	2120 I:JA	1780 I:JA
MANGANESE	15	1.36E 3 / 2253.50E 0	168 I:JA	174 I:JA	161 I:JA	102 I:JA
MERCURY	0.2	8.23E 1 / 0.20E 0		.079 B:V	.078 B:V	.072 B:V
NICKEL	40	5.49E 3 / 26.90E 0	7.4 B:V	13.2 :V	12.8 :V	11.2 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1020 I:JA	1460 I:JA	1410 I:JA	1200 I:JA
SELENIUM	5	1.37E 3 / 1.40E 0		1.1 :V	.87 B:V	.91 B:V
SILVER	10	1.37E 3 / 10.00E 0		2.7 :V	2.3 :V	1.2 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0	149 B:V			
VANADIUM	50	1.92E 3 / 55.60E 0	14.6 I:JA	33.2 I:JA	32.8 I:JA	25.3 I:JA
ZINC	20	8.23E 4 / 86.60E 0	51.6 :V	64.2 :V	58.4 :V	289 :V#
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.02(.01) :V	.019(.01) :V	.005(.005) J:V	.061(.017) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	26.01(5.82) :V	25.37(5.78) :V	23.11(5.52) :V	19.8(4.98) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	34.2(3.7) :V	33.84(3.7) :V	39.97(4.08) :V	35.2(3.75) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.073(.02) :V	.099(.023) :V	.02(.013) :V	.203(.037) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	-5.79(207) J:V-	-53.1(204) J:V-	2.896(207) J:V-	-28(205) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.183(.225) :V	1.245(.218) :V	1.735(.257) :V	1.152(.236) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.06(.044) :V	.032(.029) J:V	.023(.021) :V	.022(.033) J:V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.276(.237) :V	1.311(.225) :V	1.553(.237) :V	1.259(.251) :V

TABLE 3-30
Surface-Soil Positive Results
OU13 - IHSS 117.3
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS308193 SSG1775JE 11-Jul-94	SS308293 SSG1776JE 11-Jul-94	SS308393 SSG1777JE 11-Jul-94	SS308493 SSG1778JE 11-Jul-94	SS308593 SSG1779JE 11-Jul-94	SS308693 SSG1780JE 11-Jul-94
Test Group:METADD Units: mg/kg								
CESIUM	1000	0.00E 0 / 630.80E 0	3.9 B:JA	4 :JA	5.9 B:JA	4.2 B:JA	4.4 B:JA	4.1 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.3 B:JA	5 B:JA	5 B:JA	8.2 B:JA	5.3 B:JA	4.6 B:JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	3.9 :V	2.5 B:V	3.2 B:V	4.2 B:V	4.2 B:V	2.8 B:V
STRONTIUM	200	1.65E 5 / 90.10E 0	15.5 B:JA	19.2 B:JA	14.6 B:JA	23.4 B:JA	17.8 B:JA	12.8 B:JA
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	200	0.00E 0 / 21915.40E 0	10900 I:JA	7910 I:JA	7080 I:JA	13500 I:JA	13800 I:JA	8220 I:JA
ARSENIC	10	3.66E-1 / 12.90E 0	7.4 :V*	5.1 :V*	4.4 :V*	7.6 :V*	9.4 :V*	5.5 :V*
BARIUM	200	1.91E 4 / 528.00E 0	70.9 I:JA	60.5 I:JA	133 I:JA	93.4 I:JA	73.6 I:JA	57.9 I:JA
BERYLLIUM	5	1.49E-1 / 5.20E 0	.82 B:V*	.61 B:V*	.53 B:V*	1.1 :V*	1.1 :V*	.69 B:V*
CALCIUM	5000	0.00E 0 / 13573.30E 0	4330 :V	6250 :V	2950 :V	6300 :V	4500 :V	3360 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	24.1 :V	12.3 :V	13.5 :V	21.2 :V	17.3 :V	11.4 :V
COBALT	50	0.00E 0 / 24.80E 0	7.6 B:V-	4.1 B:V-	4.2 B:V-	8.7 B:V-	4.9 B:V-	4.8 B:V-
COPPER	25	1.10E 4 / 27.30E 0	13.3 :V	8.7 :V	13.6 :V	15.6 :V	9.5 :V	9.8 :V
IRON	100	0.00E 0 / 28160.40E 0	14200 I:JA	9540 I:JA	10200 I:JA	16300 I:JA	15800 I:JA	10900 I:JA
LEAD	3	0.00E 0 / 61.40E 0	90.6 :V#	45.2 :V	47 :V	78.5 :V#	33.2 :V	28.9 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1600 I:JA	1400 I:JA	1840 I:JA	2530 I:JA	1410 I:JA	1480 I:JA
MANGANESE	15	1.36E 3 / 2253.50E 0	461 I:JA	121 I:JA	438 I:JA	226 I:JA	97.4 I:JA	115 I:JA
MERCURY	0.2	8.23E 1 / 0.20E 0	.1 B:V	.071 B:V		.13 :V	.15 :V	.066 B:V
NICKEL	40	5.49E 3 / 26.90E 0	12.7 :V	8.9 :V	8.3 :V	14.8 :V	13.5 :V	10 :V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1010 I:JA	1020 I:JA	1140 I:JA	1440 I:JA	857 B:JA	939 B:JA
SELENIUM	5	1.37E 3 / 1.40E 0	.92 B:V		.76 B:V	.71 B:V	1.5 :V#	
SILVER	10	1.37E 3 / 10.00E 0	1.2 B:V	1.3 B:V	1.2 B:V	1.5 B:V	1.7 B:V	
SODIUM	5000	0.00E 0 / 1108.00E 0	113 B:V		201 B:V	112 B:V		
VANADIUM	50	1.92E 3 / 55.60E 0	29.3 I:JA	22.9 I:JA	21.6 I:JA	38.6 I:JA	42.4 I:JA	24.5 I:JA
ZINC	20	8.23E 4 / 86.60E 0	1580 :V#	147 :V#	69.2 :V	358 :V#	378 :V#	278 :V#
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.029(.011) :V	.027(.012) :V	.039(.014) :V	.062(.017) :V	.024(.011) :V	.04(.014) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	22.14(5.22) :V	22.7(5.35) :V	23.28(5.43) :V	21.77(5.22) :V	22.42(5.34) :V	19.17(4.86) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	37.14(3.9) :V	35.12(3.75) :V	41.58(4.18) :V	38.24(3.95) :V	37.54(3.9) :V	37.34(3.91) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.083(.027) :V	.169(.032) :V#	.087(.025) :V	.385(.06) :V#		.169(.036) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	.965(207) J:V-	30.88(209) J:V-	34.74(209) J:V-	124.5(213) J:V-	104.6(205) J:V-	-42.5(205) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	.914(.181) :V	1.256(.206) :V	1.046(.199) :V	.87(.159) :V	1.314(.258) :V	1.036(.17) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.047(.035) :V	.044(.032) :V	.039(.033) :V	.028(.024) :V	.097(.059) :V	.064(.035) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.2(.217) :V	1.329(.214) :V	1.239(.223) :V	.935(.167) :V	1.433(.274) :V	1.034(.17) :V

TABLE 3-30
Surface-Soil Positive Results
OU13 - IHSS 117.3
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS308793 SSG1781JE 8-Jul-94	SS308893 SSG1782JE 8-Jul-94
Test Group:METADD Units: mg/kg				
CESIUM	1000	0.00E 0 / 630.80E 0	4.2 B:JA	4.2 B:JA
LITHIUM	100	0.00E 0 / 20.00E 0	6.3 B:JA	5.3 :JA
MOLYBDENUM	200	1.37E 3 / 40.00E 0	2.1 B:V	1.9 :V
STRONTIUM	200	1.65E 5 / 90.10E 0	13.2 B:JA	12.7 B:JA
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	200	0.00E 0 / 21915.40E 0	4920 I:JA	3390 I:JA
ARSENIC	10	3.66E-1 / 12.90E 0		
BARIUM	200	1.91E 4 / 528.00E 0	70.5 I:JA	57.3 I:JA
BERYLLIUM	5	1.49E-1 / 5.20E 0	.39 B:V*	.28 B:V*
CALCIUM	5000	0.00E 0 / 13573.30E 0	1850 :V	1290 :V
CHROMIUM	10	1.37E 3 / 24.80E 0	9.6 :V	6.4 :V
COBALT	50	0.00E 0 / 24.80E 0	14.4 :V-	53.5 :V-
COPPER	25	1.10E 4 / 27.30E 0	10.6 :V	17.6 :V
IRON	100	0.00E 0 / 28160.40E 0	8050 I:JA	6330 I:JA
LEAD	3	0.00E 0 / 61.40E 0	8.3 :V	8 :V
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1440 I:JA	1240 I:JA
MANGANESE	15	1.36E 3 / 2253.50E 0	196 I:JA	116 I:JA
MERCURY	0.2	8.23E 1 / 0.20E 0		
NICKEL	40	5.49E 3 / 26.90E 0	6.7 B:V	5.7 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1140 I:JA	978 B:JA
SELENIUM	5	1.37E 3 / 1.40E 0		
SILVER	10	1.37E 3 / 10.00E 0	1.2 B:V	2 B:V
SODIUM	5000	0.00E 0 / 1108.00E 0	83.2 B:V	100 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	12.8 I:JA	9.8 B:JA
ZINC	20	8.23E 4 / 86.60E 0	126 :V#	24.2 :V
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.002(.005) J:V	.023(.01) :V
GROSS ALPHA	0	0.00E 0 / 44.56E 0	24.93(5.64) :V	23.51(5.53) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	39.8(4.06) :V	39.03(4.02) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2		.093(.023) :V
TRITIUM	0	0.00E 0 / 545.96E 0	156.6(207) J:V-	-66.6(204) J:V-
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	2.261(.348) :V#	2.087(.297) :V#
URANIUM-235	0	1.73E-1 / 19.83E-2	.093(.052) :V	.091(.044) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.815(.295) :V	1.952(.282) :V#

† DOE 1994b
‡ DOE 1994d

TABLE 4-1
Estimation of the Sufficiency of the Sampling of IHSS 117.2 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Metals Units:mg/kg										
ARSENIC	14	5.94	1.94	0.326	8	5	4	2	2	1
COPPER	14	37.93	44.12	1.163	92	56	41	25	15	9
LEAD	14	28.26	19.12	0.677	31	19	14	9	5	4
SELENIUM	6	1.00	0.24	0.237	4	3	2	2	1	1
SILVER	13	3.22	5.85	1.815	223	136	100	61	36	22
ZINC	14	126.95	101.76	0.802	44	27	20	12	7	5
Radionuclides Units: pCi/g										
PLUTONIUM-239/240	11	0.09	0.12	1.428	138	84	62	38	23	14

Notes:

COC = compound of concern
mg/kg = milligrams per kilogram
n = number
= current sampling insufficient

TABLE 4-2

Estimation of the Sufficiency of the Sampling of IHSS 117.2 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Metals Units:mg/kg										
ARSENIC	11	4.70	1.89	0.402	11	7	5	3	2	0.2
CHROMIUM	11	14.34	8.34	0.582	23	14	11	7	4	3
COALT	10	6.49	3.09	0.476	16	10	7	5	3	2
LEAD	11	26.22	19.76	0.754	39	24	18	11	7	4
NICKEL	10	14.03	7.01	0.500		11	8	5	3	2
ZINC	11	168.46	160.47	0.953	62	38	28	17	10	6
Radionuclides Units: pCi/g										
AMERICIUM-241	8	0.06	0.06	0.970	64	39	29	18	11	7
PLUTONIUM-239/240	9	0.10	0.09	0.881	53	32	24	15	9	6
RADIUM-226	2	1.63	0.21	0.128	2	1	1	1	1	1

Notes:

COC = compound of concern
mg/kg = milligrams per kilogram
n = number
pCi/g = picouries per gram

= current sampling insufficient

TABLE 4-3
Estimation of the Sufficiency of the Sampling of IHSS 158 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Metals Units:mg/kg										
ARSENIC	11	3.791	2.192	0.578108	23	14	11	7	4	3
BERYLLIUM	3									
CALCIUM	11	3.768	5138.577	1.363676	126	77	56	34	21	13
CHROMIUM	11	18.83	27.840	1.478716	148	90	66	40	24	15
COALT	11	9.09	8.644	0.950803	62	38	28	17	10	6
COPPER	11	45.65	83.336	1.82535	226	137	101	61	37	22
LEAD	11	22.19	21.927	0.988127	67	41	30	18	11	7
NICKEL	3									
ZINC	11	213.8	342.306	1.601192	174	106	78	47	28	17
Radionuclides Units: pCi/g										
AMERICIUM-241	11	0.071	0.082	1.161983	92	56	41	25	15	9
PLUTONIUM-239/240	10	0.129	0.195	1.507687	154	94	69	42	25	15
URANIUM-233/234	11	1.350	0.316	0.233794	4	3	2	1	1	1
URANIUM-235	11	0.097	0.095	0.985666	66	40	30	18	11	7
URANIUM-238	11	1.579	0.902	0.570962	23	14	10	6	4	3

Notes:

COC = compound of concern

mg/kg = milligrams per kilogram

n = number

pCi/g = picouries per gram

= current sampling insufficient

TABLE 4-4

Estimation of the Sufficiency of the Sampling of IHSS 186 to Characterize the Mean IHSS Radionuclide Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Radionuclides Units: pCi/g										
AMERICIUM-241	11	0.36	0.47	1.31	117	71	52	32	19	12
GROSS BETA	11	42.23	8.55	0.20	3	2	2	1	1	1
PLUTONIUM-239/240	11	1.15	2.22	1.93	253	154	113	69	41	25
URANIUM-238	11	2.05	0.78	0.38	10	6	5	3	2	1

Notes:

COC = compound of concern

mg/kg = milligrams per kilogram

n = number

pCi/g = picouries per gram

= current sampling insufficient

TABLE 4-5
Estimation of the Sufficiency of the Sampling of IHSSs 128, 171, 134N to Characterize the Mean IHSS COC Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Radionuclides Units: pCi/g										
AMERICIUM-241	8	0.06	0.07	1.01	70	43	31	19	12	7
PLUTONIUM-239/240	8	0.09	0.05	0.56	22	14	10	6	4	3

Notes:

COC = compound of concern
mg/kg = milligrams per kilogram
n = number
pCi/g = picouries per gram
= current sampling insufficient

TABLE 4-6
Estimation of the Sufficiency of the Sampling of
IHSS 134S to Characterize the Mean IHSS COC Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Radionuclides Units: pCi/g										
AMERICIUM-241	11	0.05	0.04	0.86	51	31	23	14	9	5
GROSS BETA	11	45.83	8.28	0.18	3	2	1	1	1	1
PLUTONIUM-39/240	11	0.16	0.16	1.04	74	45	33	20	12	8
URANIUM-233/234	11	1.78	0.76	0.43	13	8	6	4	2	2
URANIUM-238	11	1.73	0.45	0.26	5	3	3	2	1	1

Notes:

COC = compound of concern
mg/kg = milligrams per kilogram
n = number
pCi/g = picouries per gram
= current sampling insufficient

TABLE 4-7
Estimation of the Sufficiency of the Sampling of IHSS 158 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Metals Units:mg/kg										
STRONTIUM	11	29.70	23.94	0.81	44	27	20	12	8	5
ARSENIC	11	6.08	2.29	0.38	10	6	5	3	2	1
CHROMIUM	11	40.26	24.71	0.61	26	16	12	7	5	3
COBALT	11	9.56	6.87	0.72	35	22	16	10	6	4
COPPER	11	33.52	38.30	1.14	89	54	40	24	15	9
LEAD	11	77.94	53.71	0.69	33	20	15	9	6	4
NICKEL	11	17.87	12.84	0.72	35	22	16	10	6	4
ZINC	11	216.97	340.70	1.57	167	102	75	46	27	17
Radionuclides Units: pCi/g										
AMERICIUM-241	11	0.09	0.06	0.76	39	24	18	11	7	4
PLUTONIUM-239/240	11	0.08	0.05	0.64	28	17	13	8	5	3
URANIUM-233/234	11	1.63	0.25	0.15	2	1	1	1	1	1
URANIUM-238	11	1.64	0.21	0.13	2	1	1	1	1	1

Notes:

COC = compound of concern

mg/kg = milligrams per kilogram

n = number

pCi/g = picouries per gram

= current sampling insufficient

TABLE 4-8

Estimation of the Sufficiency of the Sampling of IHSS 157.1 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
BNAs										
BENZO(a)ANTHRACENE	9	1.026	1.476	1.44	140	86	63	38	23	14
BENZO(a)PYRENE	10	0.979	1.37	1.40	33	81	59	36	22	13
BENZO(b)FLUORANTHENE	10	1.300	1.941	1.49	151	92	67	41	25	15
DIBENZO(a,h)ANTHRACENE	6	0.233	0.215	0.92	58	36	26	16	10	6
INDENO(1,2,3-cd)PYRENE	10	0.546	0.703	1.29	113	69	50	31	18	11
Metals Units:mg/kg										
ARSENIC	10	5.09	1.40	0.27	6	4	3	2	1	1
COPPER	10	29.06	40.08	1.38	129	79	58	35	21	13
LEAD	10	32.53	35.37	1.09	80	49	36	22	13	8
ZINC	10	65.41	18.79	0.29	6	4	3	2	1	1
Radionuclides Units: pCi/g										
AMERICIUM-241	10	0.03	0.02	0.80	44	27	20	12	7	5
PLUTONIUM-239/240	10	0.06	0.06	0.95	61	37	27	17	10	6
URANIUM-233/234	10	1.75	0.82	0.47	15	10	7	5	3	2
URANIUM-238	10	2.1	1.37	0.65	29	18	13	8	5	3

Notes:

COC = compound of concern

mg/kg = milligrams per kilogram

n = number

pCi/g = picouries per gram

= current sampling insufficient

TABLE 4-9
Estimation of the Sufficiency of the Sampling of
IHSS 117.3 to Characterize the Mean IHSS COC Concentration or Activity

	No. of Analyses n	Mean Conc. (mg/kg)	Standard Deviation (mg/kg)	Coef. of Variation	Sufficiency of Number of Samples					
					n (0.05, 0.2)	n (0.10, 0.2)	n (0.05, 0.3)	n (0.10, 0.3)	n (0.05, 0.5)	n (0.10, 0.5)
Metals Units:mg/kg										
ARSENIC	9	6.23	2.02	0.32	8	5	4	2	2	1
COBALT	11	10.66	14.54	1.36	126	77	56	34	21	13
LEAD	11	37.98	26.91	0.71	34	21	16	10	6	4
SELENIUM	6	0.98	0.29	0.29	6	4	3	2	1	1
ZINC	11	305.93	441.41	1.44	141	86	63	39	23	14
Radionuclides Units: pCi/g										
PLUTONIUM-239/240	11	0.14	0.10	0.70	34	21	15	10	6	4
URANIUM-233/234	11	1.31	0.45	0.35	9	5	4	3	2	1
URANIUM-238	11	1.34	0.30	0.22	4	3	2	1	1	1

Notes:

COC = compound of concern
mg/kg = milligrams per kilogram
n = number
pCi/g = picouries per gram
= current sampling insufficient

TABLE 4-10
Summary of OU13 IHSS Data Evaluation
Rocky Flats Environmental Technology Site

IHSS Number	Samples Collected	Number of Samples That Exceed Reference Concentrations	Constituents Detected Above Reference Concentrations	PRG/ BKGND‡ (mg/kg)	Maximum Concentration (mg/kg)
117.1	10	7	Arsenic	0.366/12.90	8.1
			Copper	11,000/27.3	183
			Lead	0.00/61.4	75.9
			Mercury	82.3/0.20	0.2
			Selenium	1,370/1.40	1.4
			Silver	1370/10.0	10.1
			Zinc	82,300/86.6	226
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.43(0.039) pCi/g
197	4	4	Arsenic	0.366/12.90	5.3
			Copper	11,000/27.3	56.3
			Silver	1,370/10.0	20.8
			Zinc	82,300/86.6	416
117.2	11	8	Arsenic	0.366/12.90	8.4
			Chromium	1,370/24.8	34.2
			Lead	0.00/61.4	62.8
			Nickel	5,490/26.9	28
			Zinc	82,300/86.6	497
			Americium-241	2.37/0.0634 pCi/g	0.169(0.031) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.225(0.043) pCi/g
			Radium-226	2.28/1.587 pCi/g	1.775(0.474) pCi/g
158	11	13	Arsenic	0.366/12.90	8.5
			Calcium	0.00/13,573	1,900
			Chromium	1,370/24.8	102
			Cobalt	0.00/24.8	29.9
			Copper	11,000/27.3	287
			Lead	0.00/61.4	78.8
			Nickel	5,490/26.9	97.6
			Zinc	82,300/86.6	1,080
			Americium-241	2.37/0.0634 pCi/g	0.254(0.39) pCi/g
			Plutonium-239,240	3.42/0.1321 pCi/g	6.642(0.113) pCi/g
			Uranium-233,234	44.7/1.769 pCi/g	1.846(0.339) pCi/g
			Uranium-235	0.173/0.1983 pCi/g	0.372(0.125) pCi/g
			Uranium-238	46.0/1.912 pCi/g	4.132(0.621) pCi/g
186	11	4	Americium-241	2.37/0.0634 pCi/g	1.045(0.131) pCi/g
			Gross Beta	0.00/55.35 pCi/g	58.25(6.47) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	7.663(0.935) pCi/g
			Uranium-238	46.0/1.912 pCi/g	3.53(0.577) pCi/g
128	1	0			
171	5	2	Americium-241	2.37/0.0634 pCi/g	0121(0.027) pCi/g
			Plutonium-239,240	3.42/0.1321 pCi/g	0.135(0.038) pCi/g

TABLE 4-10
Summary of OU13 IHSS Data Evaluation
Rocky Flats Environmental Technology Site

IHSS Number	Samples Collected	Number of Samples That Exceed Reference Concentrations	Constituents Detected Above Reference Concentrations	PRG/ BKGND‡ (mg/kg)	Maximum Concentration (mg/kg)
134N	3	9	Calcium	0.00/13,573	18,100
			Copper	11,000/27.3	72
			Iron	0.00/28,160	31,700
			Magnesium	0.00/7,012	18,400
			Nickel	5,490/26.9	30.3
			Sodium	0.00/1,108	2,850
			Strontium	165,000/90.1	413
			Americium-241	2.37/0.0634 pCi/g	0.202(0.038) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.183(0.037) pCi/g
Between 134N and 134S	3	3	Magnesium	0.00/7,012	10,300
			Americium-241	2.37/0.0634 pCi/g	0.291(0.043) pCi/g
			Plutonium-239,240	3.42/0.1321 pCi/g	1.744(0.198) pCi/g
134S	11	5	Americium-241	2.37/0.0634 pCi/g	0.109(0.024) pCi/g
			Gross Beta	0.00/55.35 pCi/g	58.06(6.43) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.376(0.059) pCi/g
			Uranium-233,-234	44.7/1.769 pCi/g	1.971(0.279) pCi/g
			Uranium-238	46.0/1.912 pCi/g	2.002(0.309) pCi/g
148	11	12	Arsenic	0.366/12.90	9.7
			Chromium	1,370/24.8	95.6
			Cobalt	0.00/24.8	28.7
			Copper	11,000/27.3	43.4
			Lead	0.00/61.4	165
			Nickel	5,490/26.9	52.4
			Strontium	165,000/90.1	94.7
			Zinc	82,300/86.6	1,220
			Americium-241	2.37/0.0634 pCi/g	0.197(0.032) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.169(0.04) pCi/g
			Uranium-233,-234	44.7/1.769 pCi/g	2.04(0.396) pCi/g
			Uranium-238	46.0/1.912 pCi/g	2.14(0.309) pCi/g
157.1	11	13	Benzo(a)anthracene	0.877/0.00	4.60
			Benzo(a)pyrene	0.0877/0.00	0.850
			Benzo(b)fluoranthene	0.877/0.00	0.960
			Dibenzo(a,h)anthracene	0.0877/0.00	0.180
			Indeno(1,2,3-cd)pyrene	0.877/0.00	2.40
			Arsenic	0.366/12.90	7.1
			Copper	11,000/27.3	143
			Lead	0.00/61.4	129
			Zinc	82,300/86.6	101
			Americium-241	2.37/0.0634 pCi/g	0.081(0.02) pCi/g
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.208(0.052) pCi/g
			Uranium-233,-234	44.7/1.769 pCi/g	3.242(0.586) pCi/g
			Uranium-238	46.0/1.912 pCi/g	5.265(0.864) pCi/g

TABLE 4-10
Summary of OU13 IHSS Data Evaluation
Rocky Flats Environmental Technology Site

IHSS Number	Samples Collected	Number of Samples That Exceed Reference Concentrations	Constituents Detected Above Reference Concentrations	PRG/ BKGND‡ (mg/kg)	Maximum Concentration (mg/kg)
117.3	11	8	Arsenic	0.366/12.90	9.4
			Cobalt	0.00/24.8	53.5
			Lead	0.00/61.4	90.6
			Selenium	1,370/1.40	1.5
			Zinc	82,300/86.6	1,580
			Plutonium-239,-240	3.42/0.1321 pCi/g	0.385(0.06) pCi/g
			Uranium-233,-234	44.7/1.769 pCi/g	2.261(0.348) pCi/g
			Uranium-238	46.0/1.912 pCi/g	1.952(0.282) pCi/g

Notes:
BRGND = Background Upper Tolerance Level
IHSS = Individual Hazardous Substance Site
mg/kg = milligrams per kilogram
pCi/g = picoCuries per gram
PRG = Preliminary Remediation Goal
‡ = DOE 1994d

FIGURE 1-1
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

EXPLANATION

- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Building footprint (where overlaps IHSS)
- Fences
- Contours (20' intervals)
- Rocky Flats boundary
- Paved roads
- Dirt roads

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Prepared by:
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EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: Location

June 12, 1995

/users/vkjera/s521905/projects/iou/ou13/fig1n2/rfets.aml

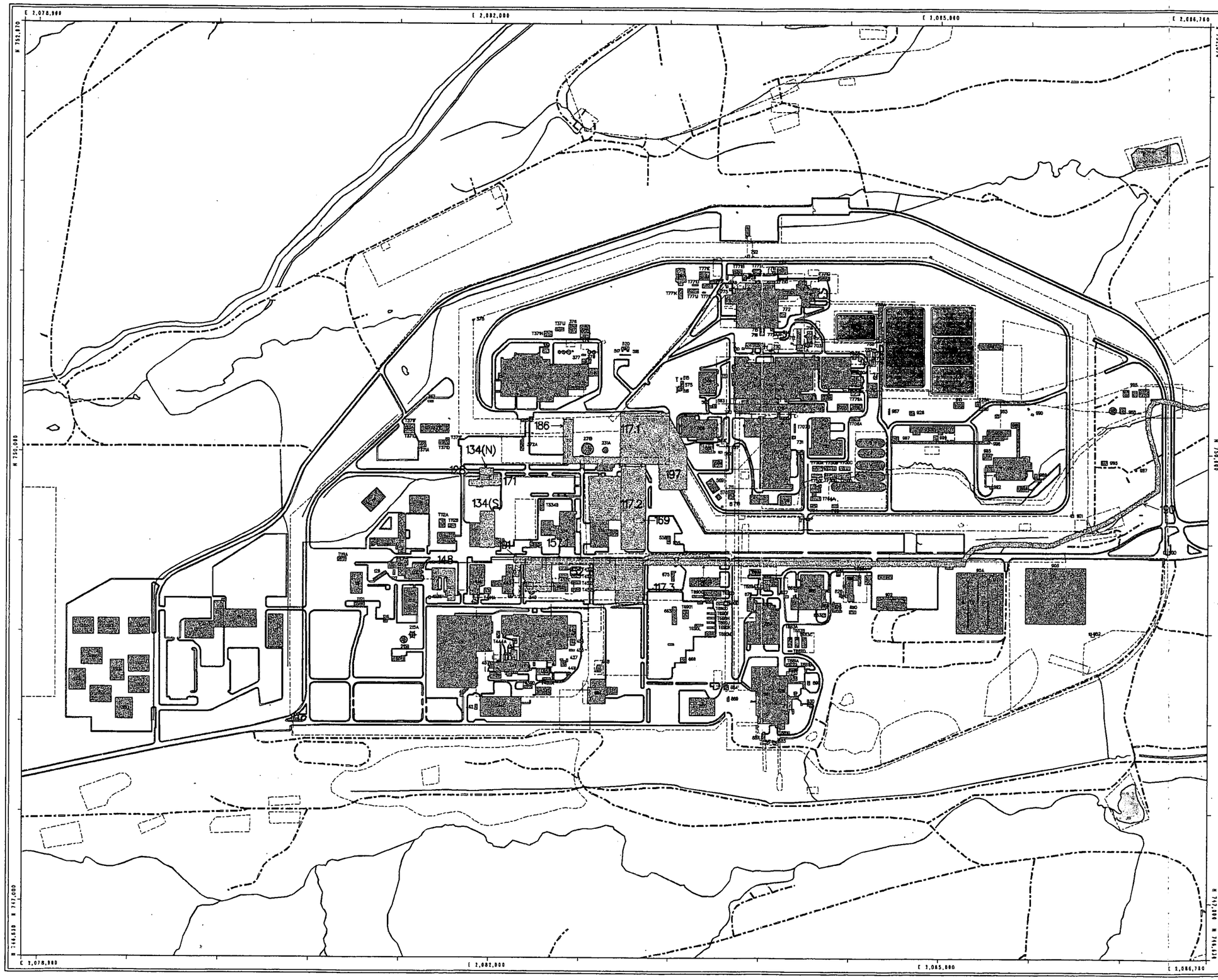

FIGURE 1-2

Operable Unit 13
Individual Hazardous Substance Sites

EXPLANATION

- OU 14 IHSS
- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

Scale = 1 : 6050
1 inch represents approximately 670.83 feet
250 0 500 1000ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

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EG&G Rocky Flats
P.O. Box 464
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MAP ID: OU13

June 12, 1995

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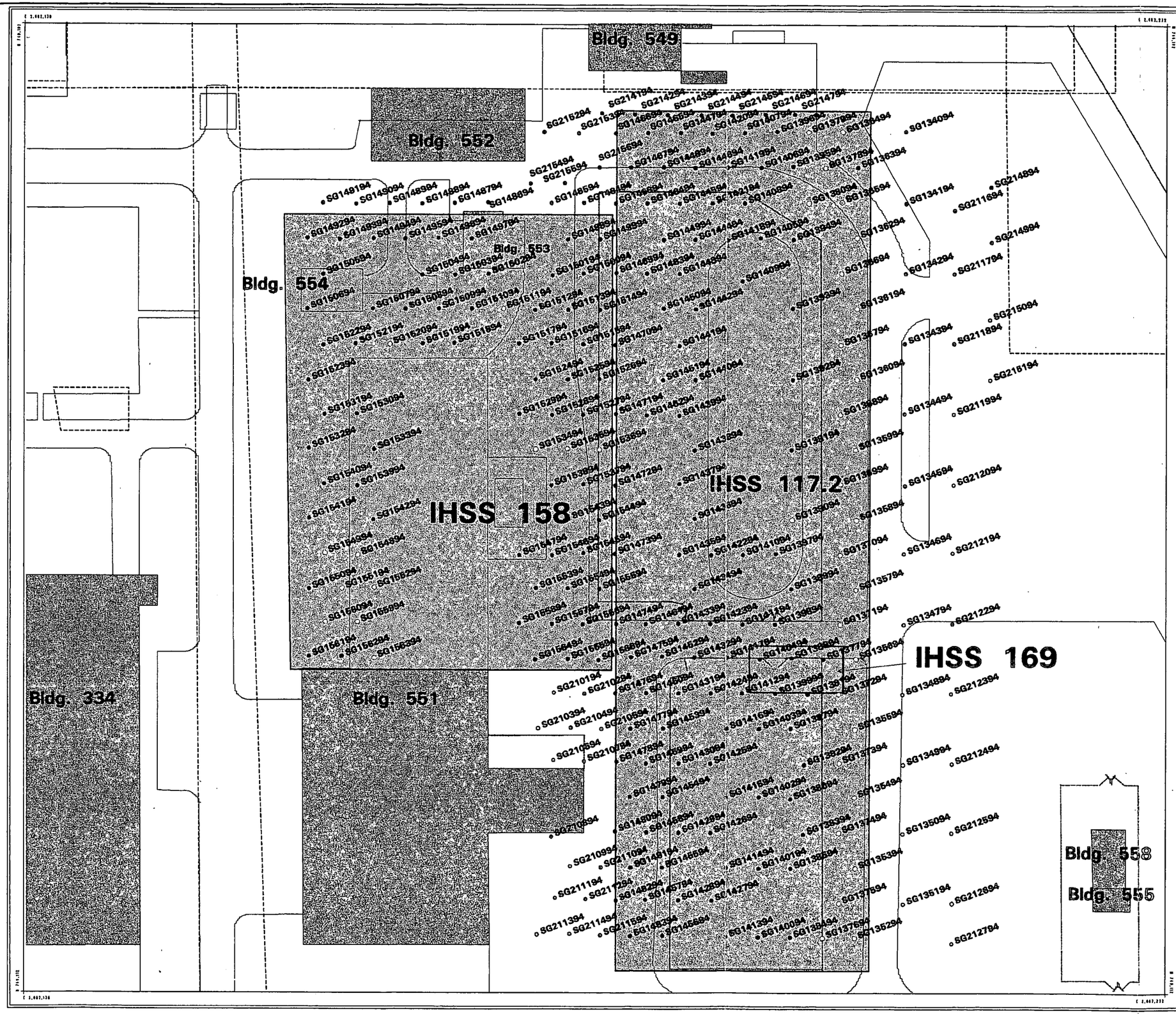

FIGURE 3-4

OU13 IHSS GROUP 117.2, 158 & 169 SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- Soil-Gas Sample Location
- Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

20 0 40 80ft

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EG&G Rocky Flats
P.O. Box 464
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MAP ID: ou-13

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/users/vklara/s521905/projects/ou13/sg-fig.aml

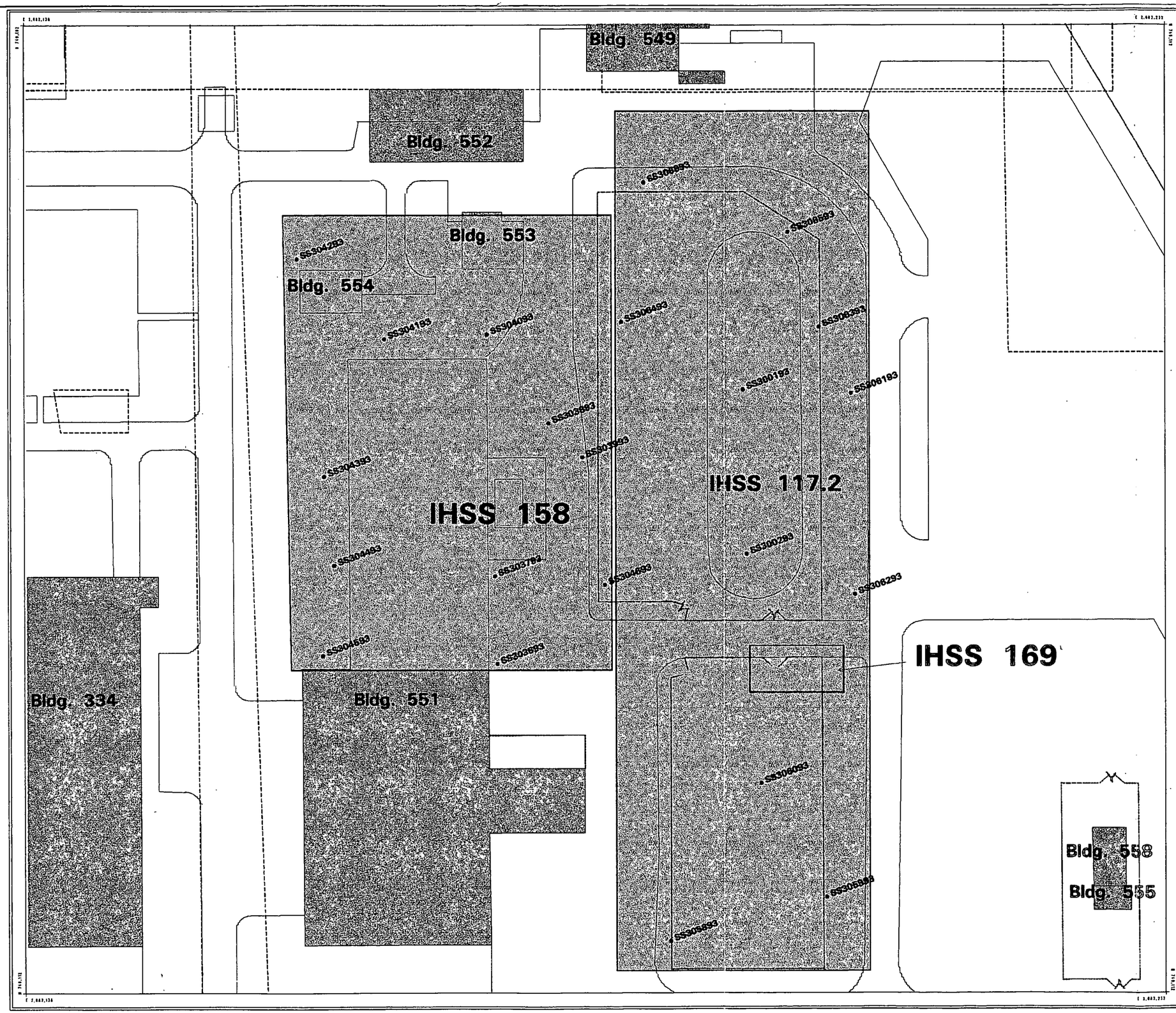

FIGURE 3-3

OU13 IHSS GROUP 117.2, 158 & 169 SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

20 0 40 80ft

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EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
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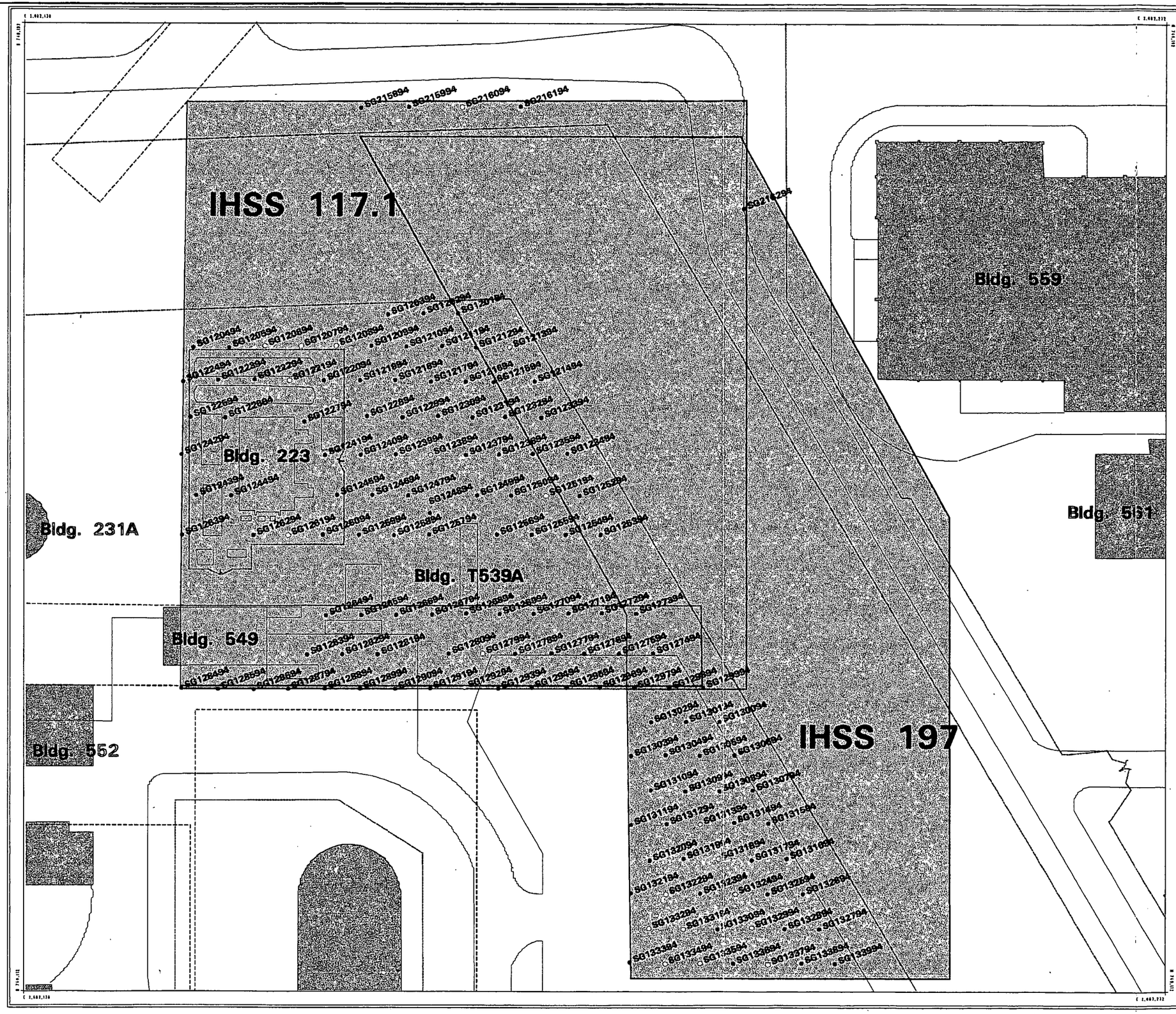

FIGURE 3-2

OU13 IHSS GROUP 117.1 & 197
SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- ● Soil-Gas Sample Location
- ○ Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

20 0 40 80ft

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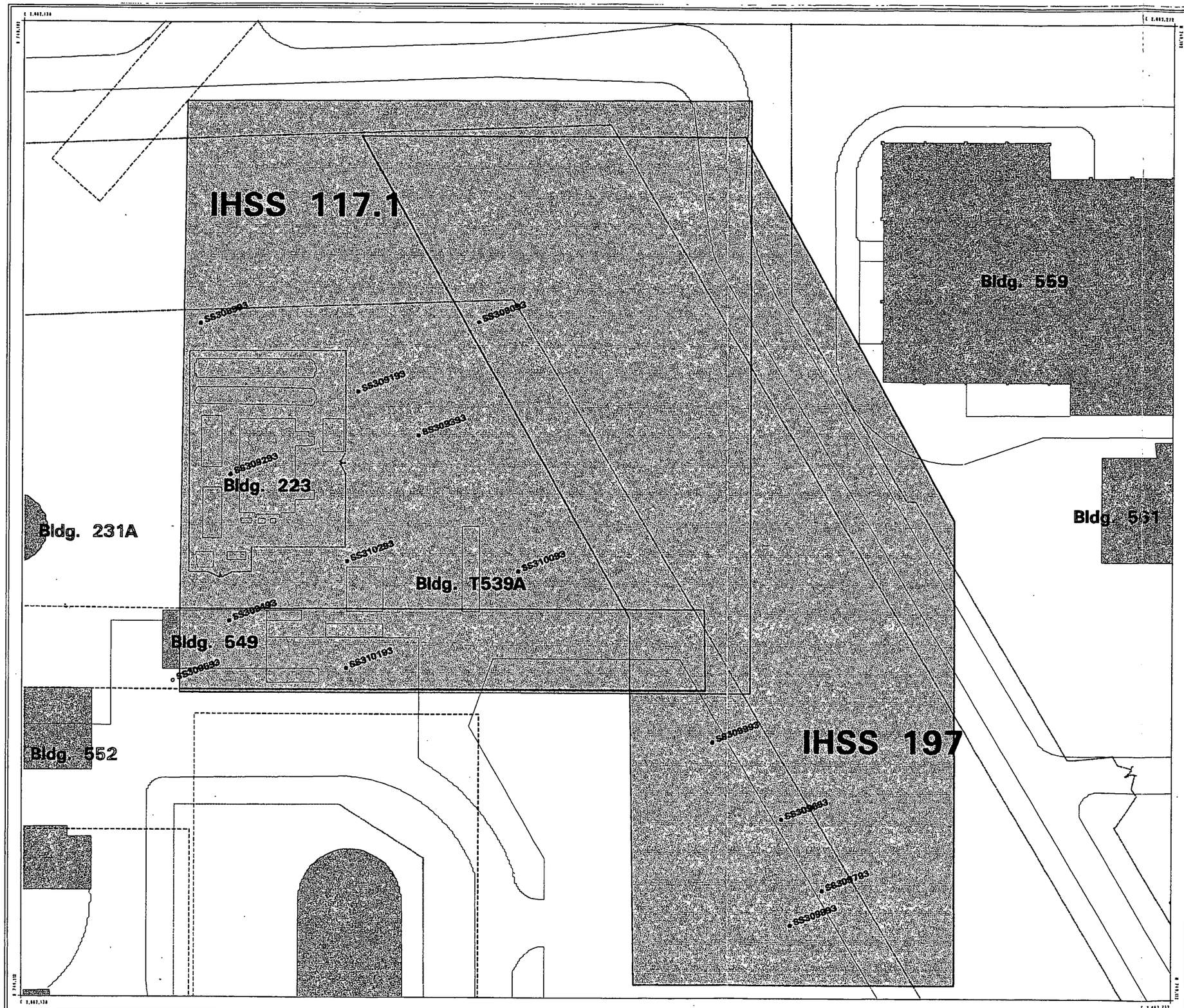

FIGURE 3-1

OU13 IHSS GROUP 117.1 & 197 SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

20 0 40 80ft

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EG&G Rocky Flats
P.O. Box 464
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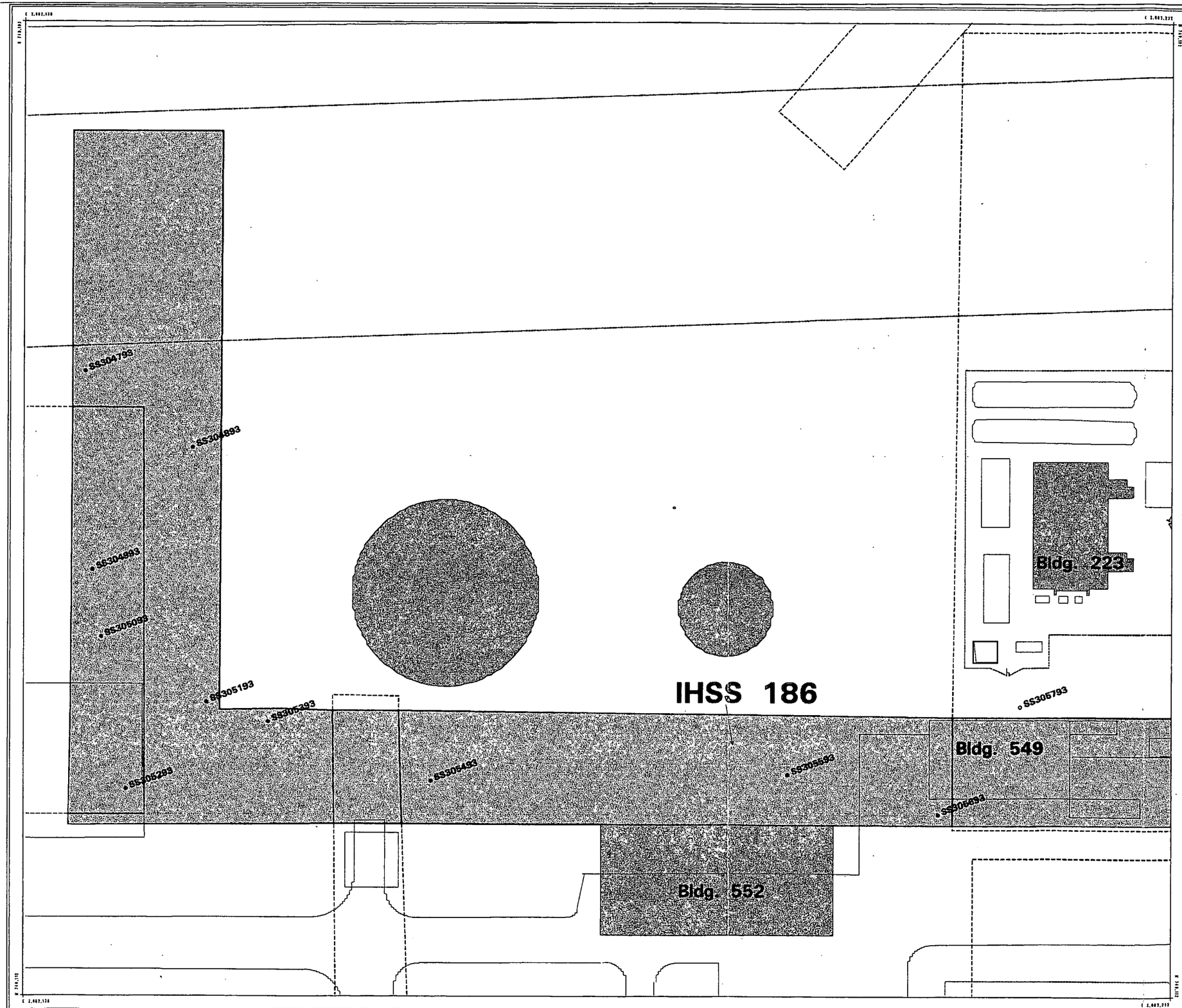

FIGURE 3-5

OU13 IHSS 186

SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

15 0 30 60ft

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P.O. Box 464
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MAP ID: ou-13

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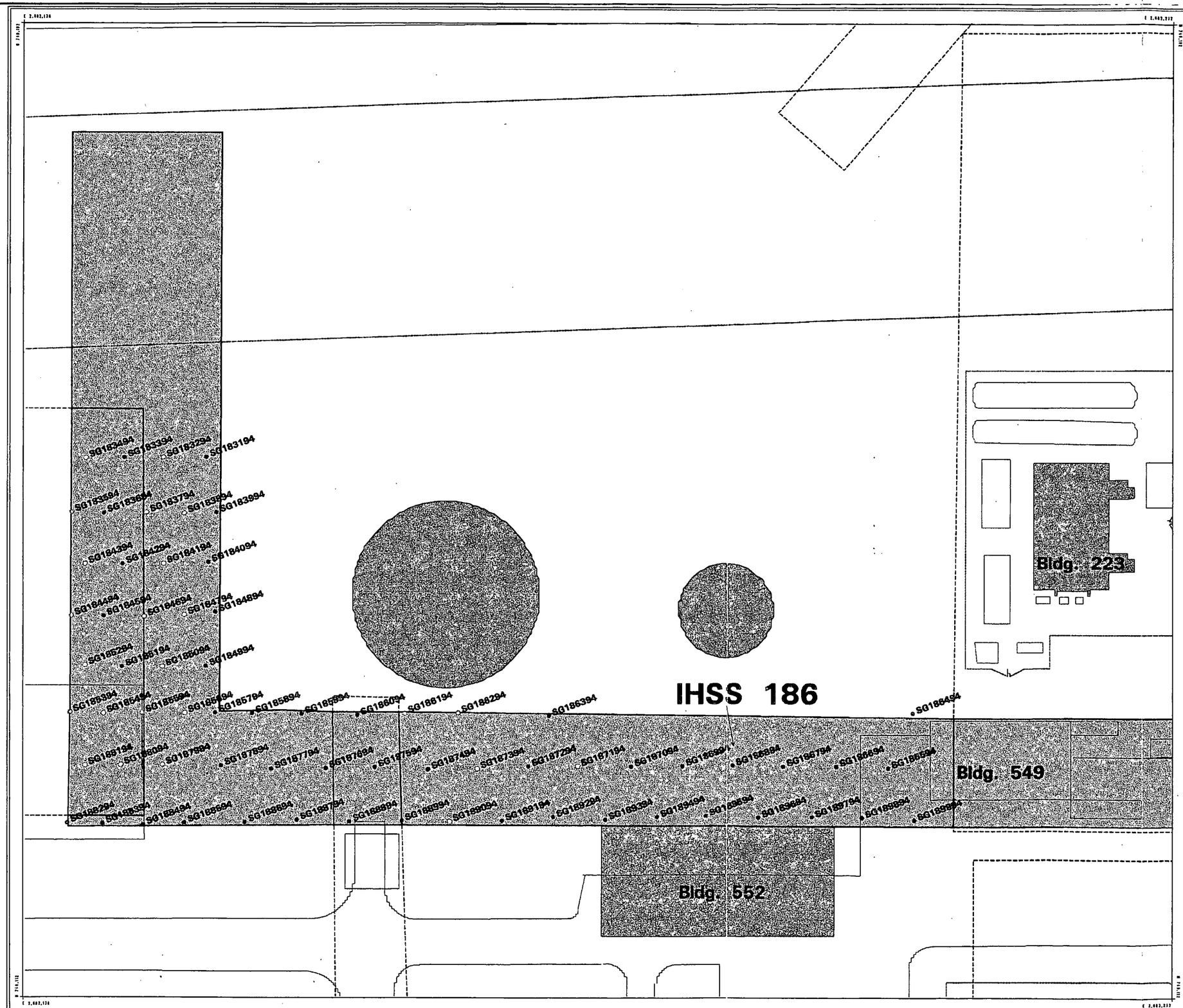

FIGURE 3-6

OU13 IHSS 186

SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- ● Soil-Gas Sample Location
- ○ Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

15 0 30 60ft

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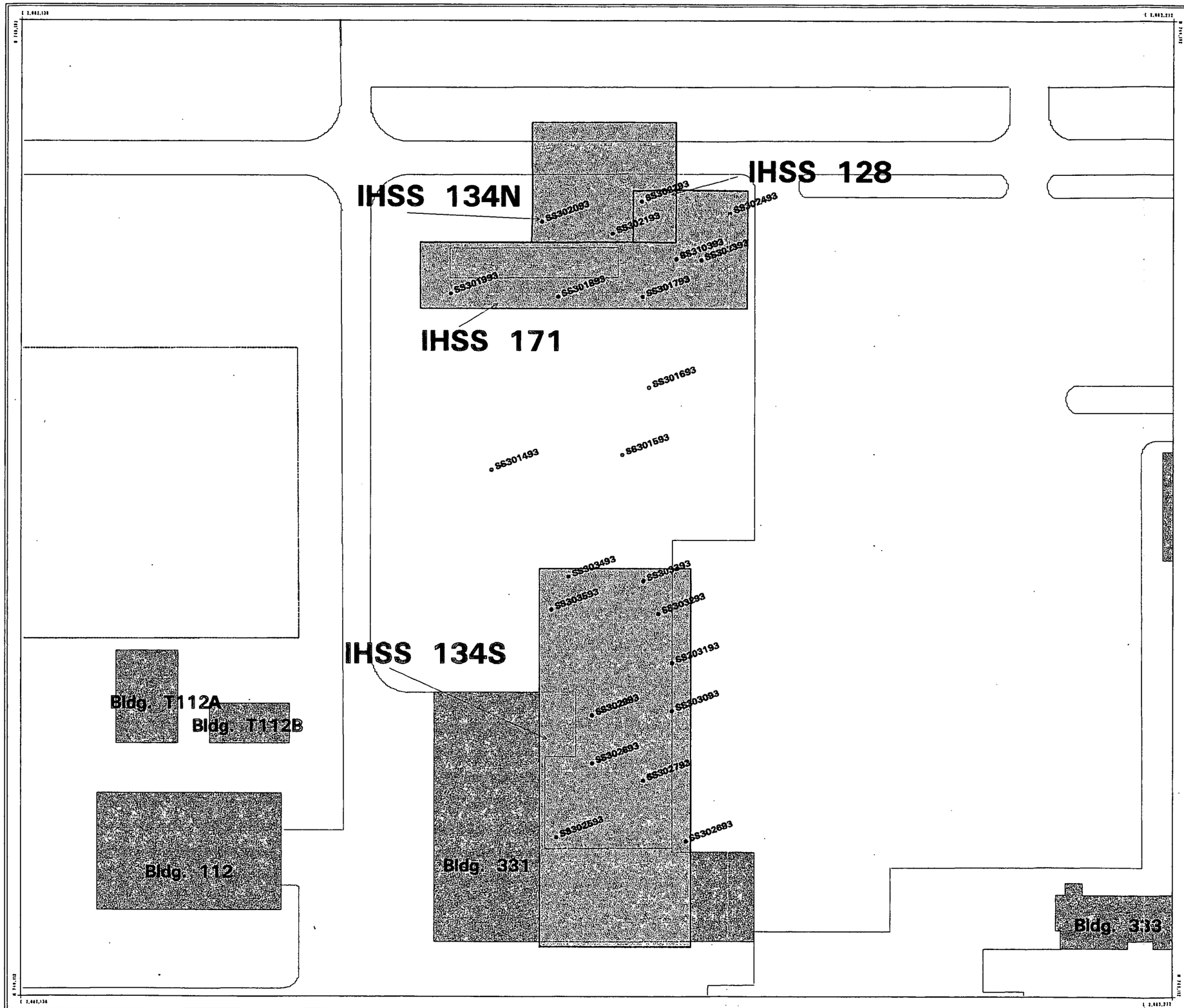

FIGURE 3-7

OU13 IHSS GROUP 128, 171, 134S & 134N SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

20 0 40 80ft

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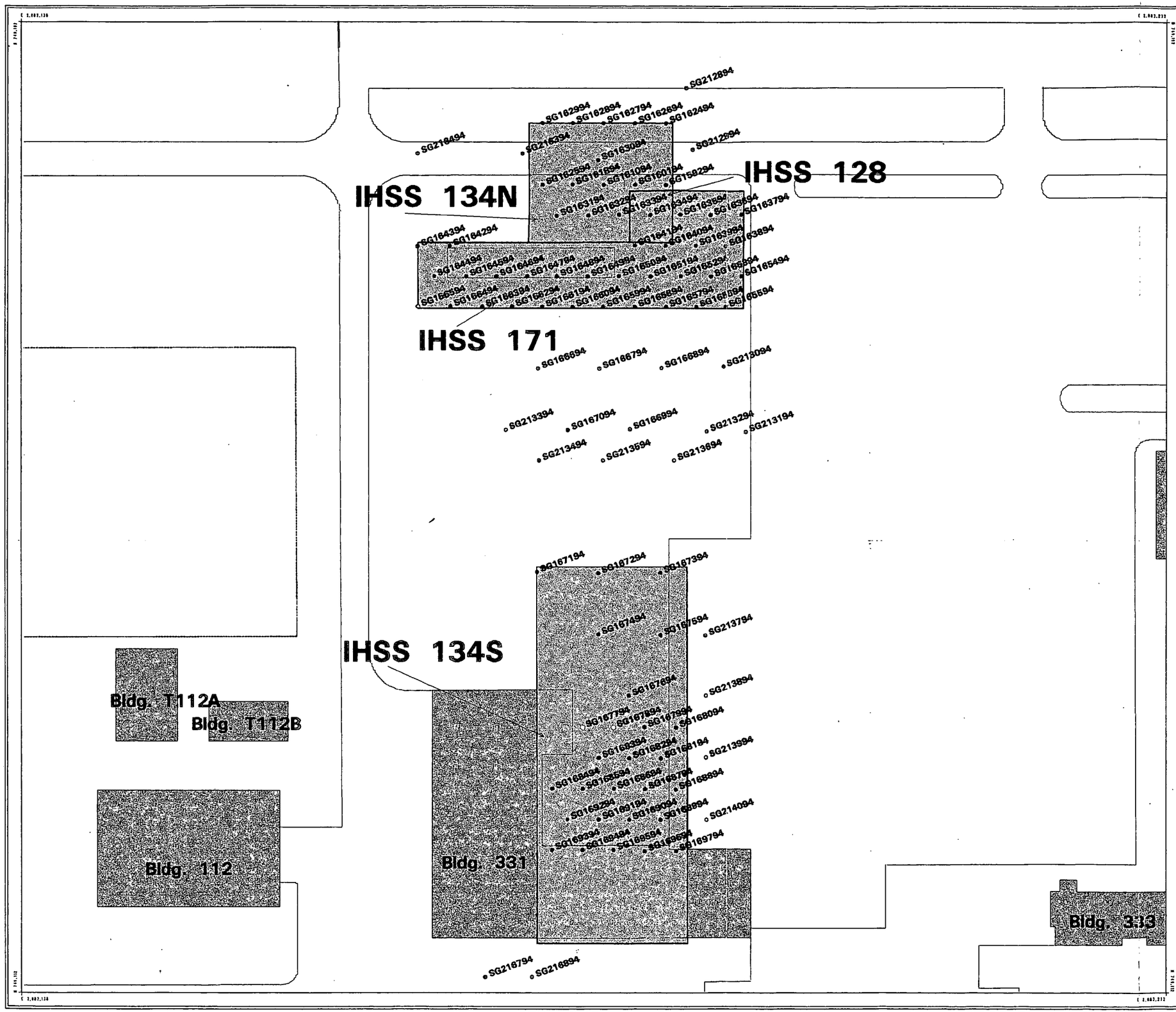

FIGURE 3-8

OU13 IHSS GROUP 128, 171, 134S & 134N SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- ● Soil-Gas Sample Location
- ○ Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

20 0 40 80ft

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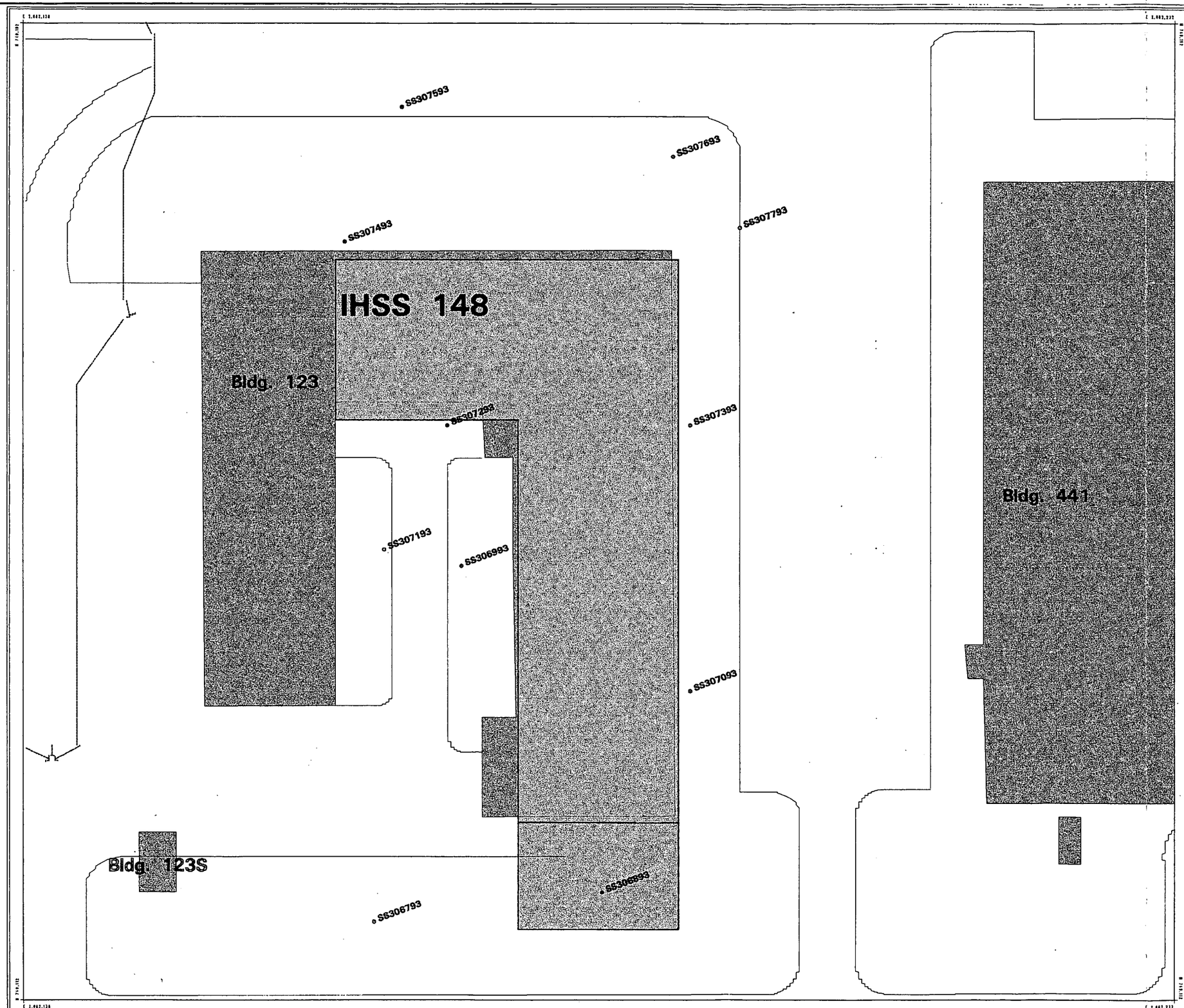

FIGURE 3-9

OU13 IHSS 148

SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

10 0 20 40ft

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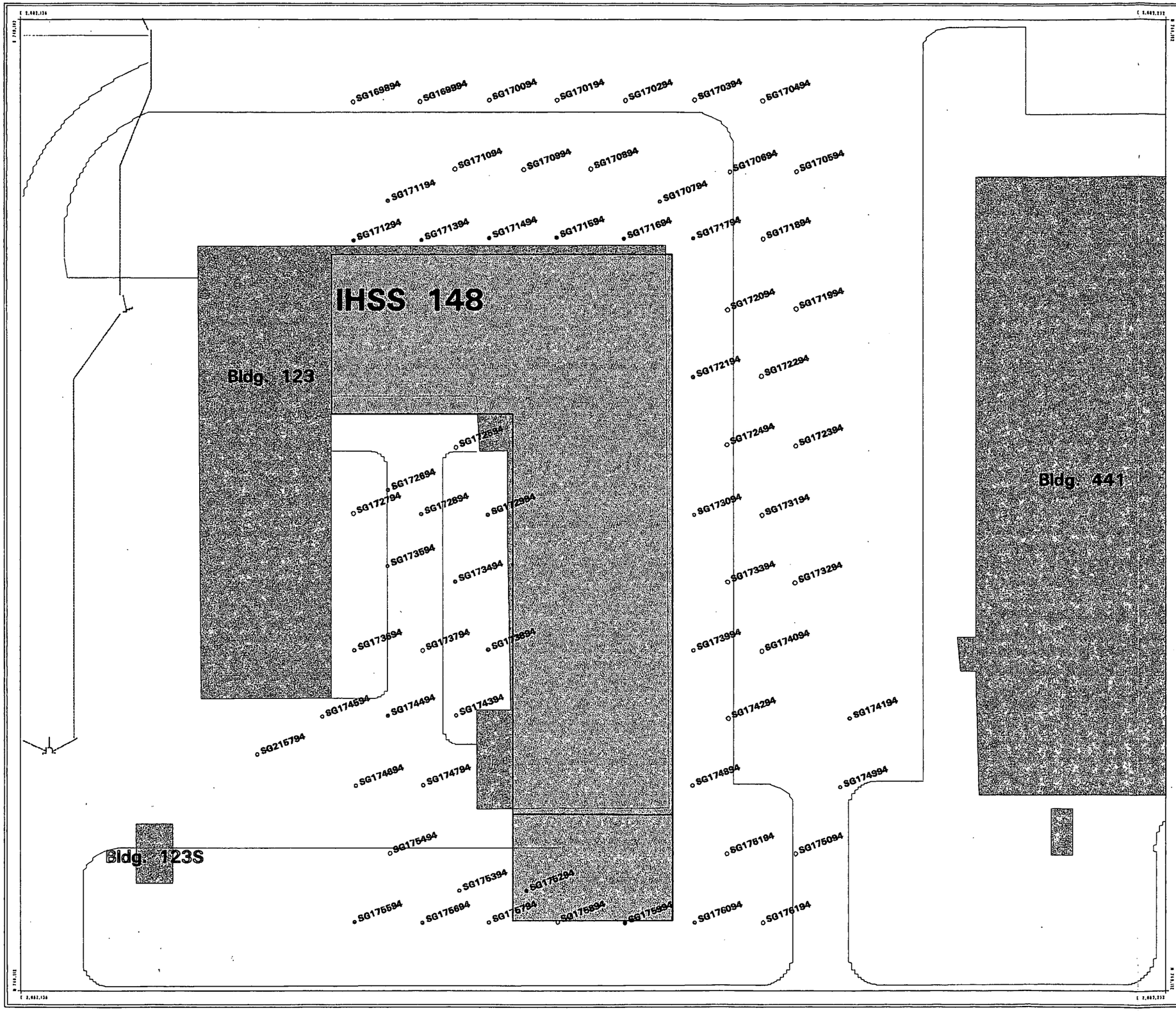

FIGURE 3-10

OU13 IHSS 148

SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- Soil-Gas Sample Location
- Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

10 0 20 40ft

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P.O. Box 464
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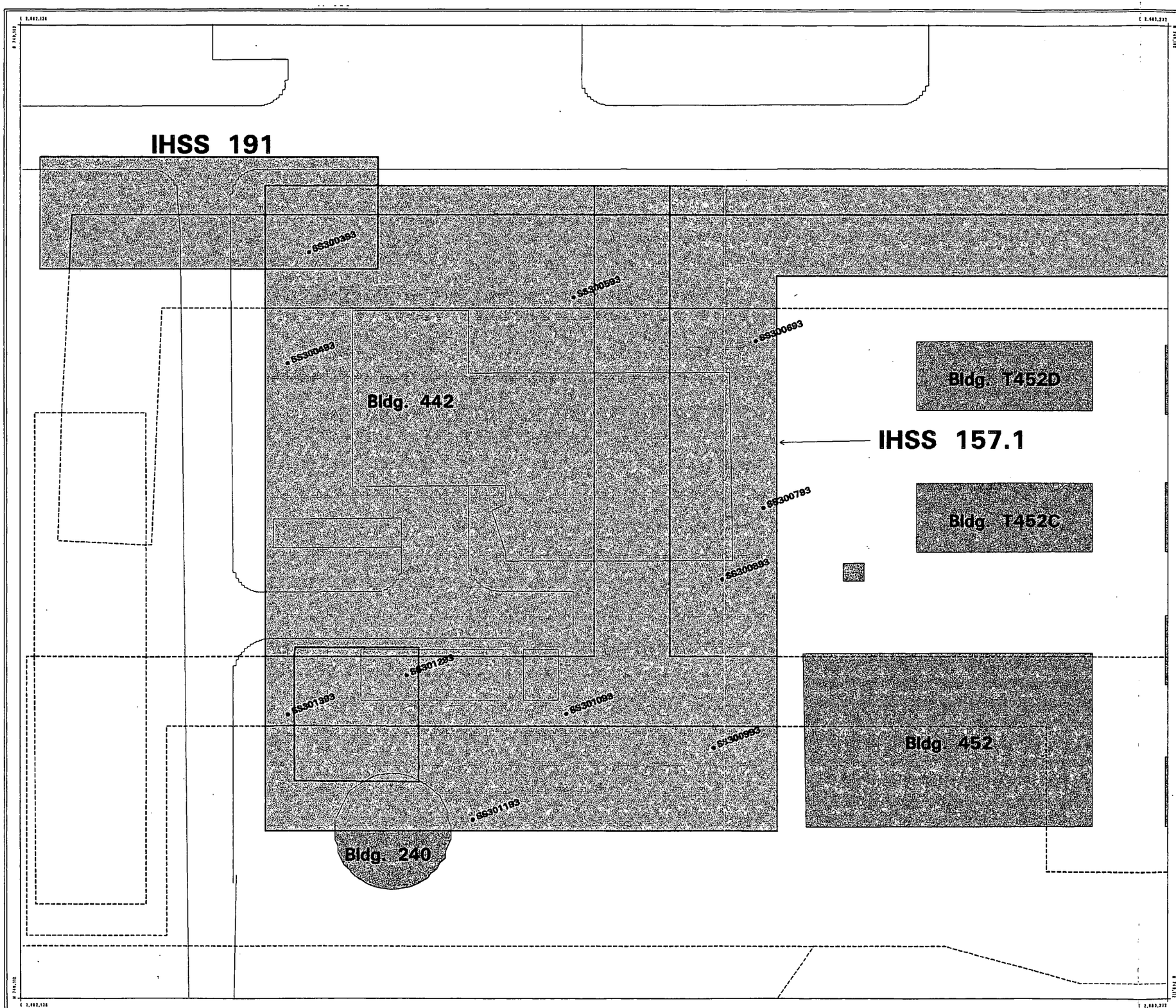

FIGURE 3-11

OU13 IHSS GROUP 157.1 & 191 SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

10 0 20 40ft

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P.O. Box 464
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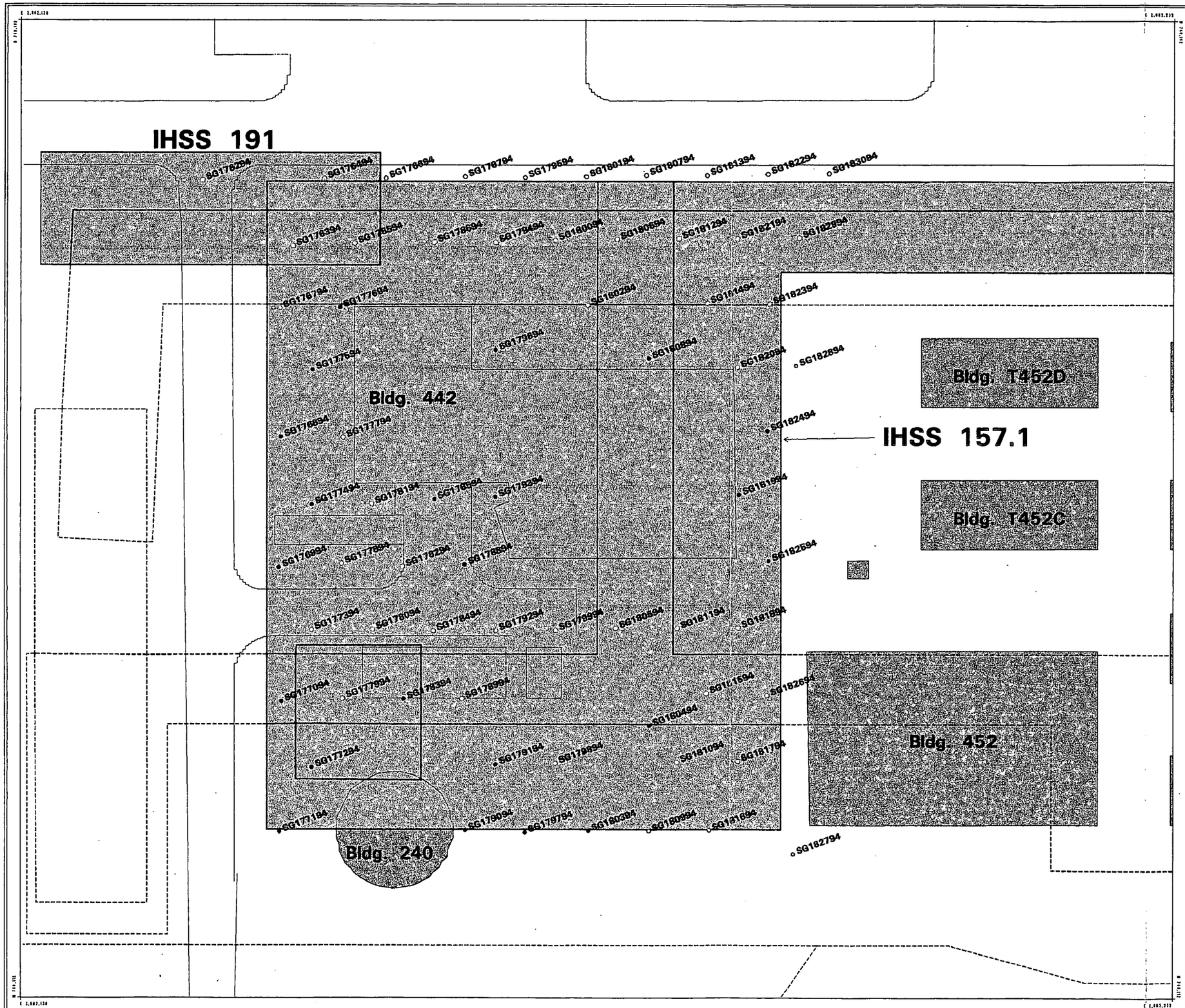

FIGURE 3-12

OU13 IHSS GROUP 157.1 & 191
SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- ● Soil-Gas Sample Location
- ○ Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

10 0 20 40ft

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MAP ID: ou-13 June 12, 1995

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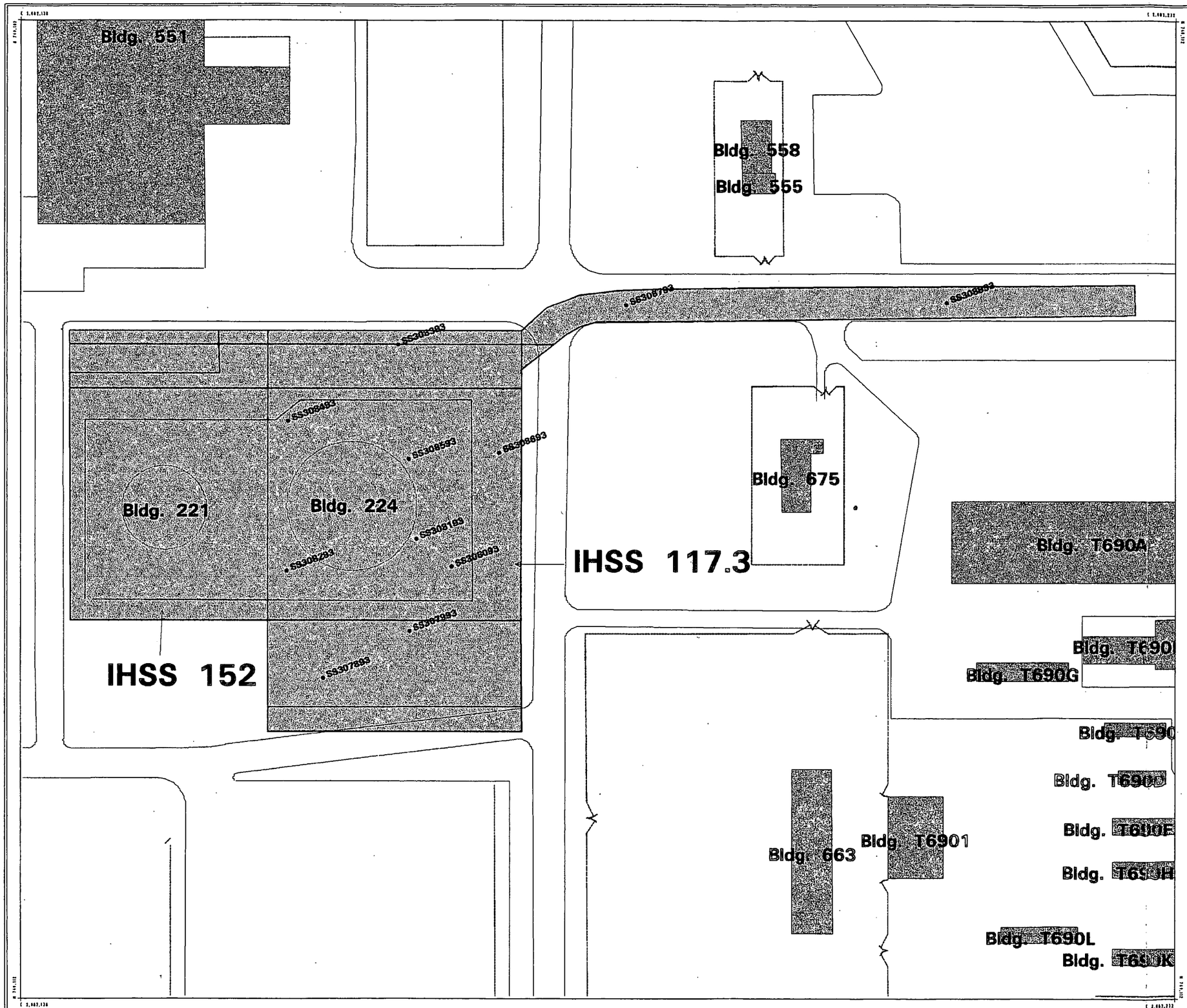

FIGURE 3-13

OU13 IHSS GROUP 152 & 117.3 SURFACE-SOIL SAMPLE LOCATIONS

EXPLANATION

- Surface-Soil Sample Location
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

N

25 0 50 100ft

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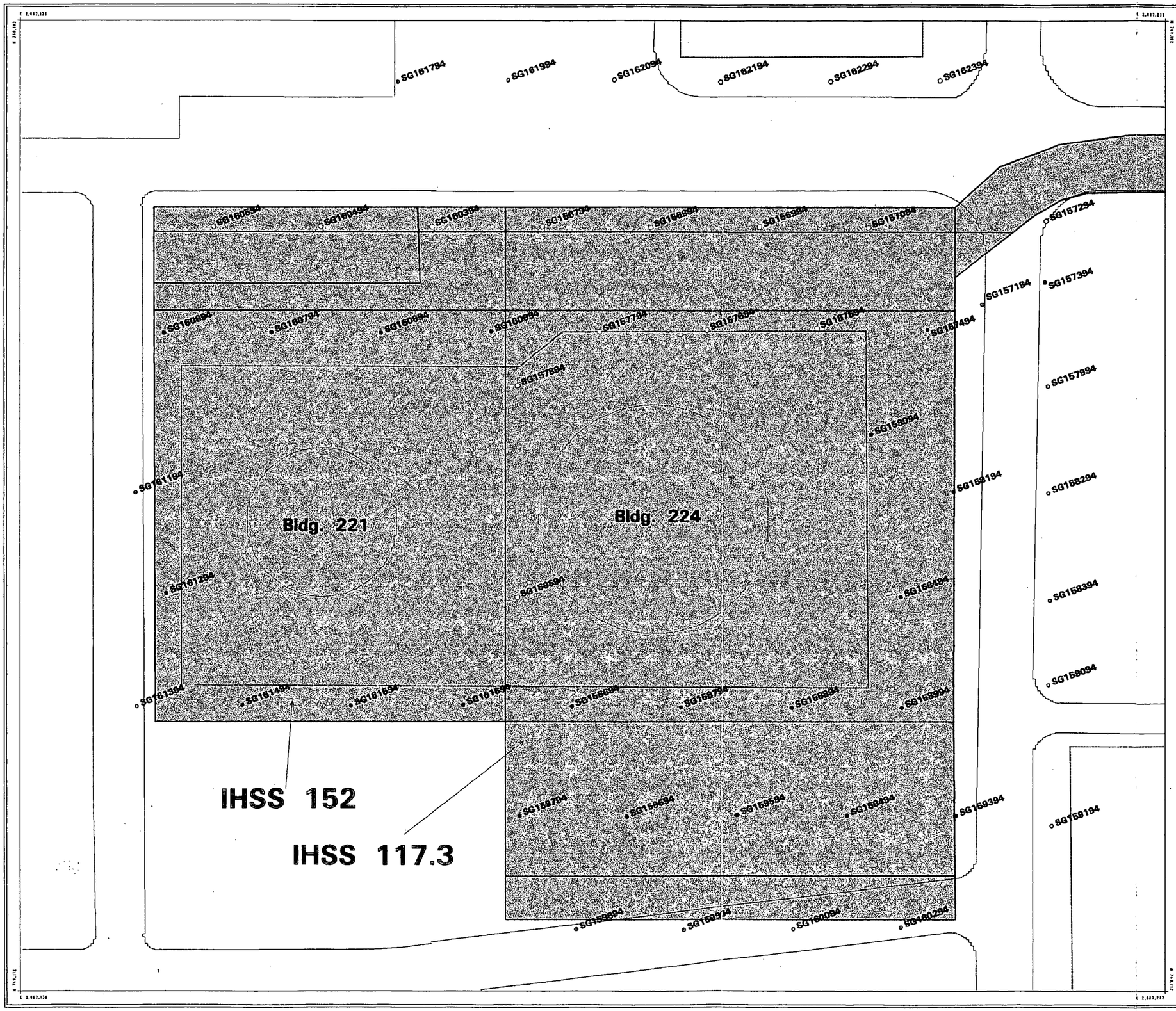

FIGURE 3-14

OU13 IHSS GROUP 152 & 117.3
SOIL-GAS SAMPLE LOCATIONS

EXPLANATION

- Soil-Gas Sample Location
- Sample Location Abandoned
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

15 0 30 60ft

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MAP ID: ou-13

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000058233

RF/ER-95-00090

DRAFT

DATA SUMMARY NO. 2
OPERABLE UNIT NO. 13
100 AREA

U.S. Department of Energy
Rocky Flats Environmental Technology Site
Golden, Colorado

ENVIRONMENTAL RESTORATION PROGRAM

June 1995

Volume II - Appendices

APPENDIX A

Radiological Survey Results

APPENDIX A-1

High Purity Germanium Results for All Integrated Operable Units

APPENDIX A-2

Vertical Soil Profile Results

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	NA-22	0.0000	0.0158	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	BI-207	0.0318	0.0000	0.03
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RA-226	3.4243	0.0000	0.75
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	AC-228	1.4848	0.0000	0.12
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	TH-228	4.8427	0.0000	3.23
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	AM-241	0.8254	0.0000	0.10
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	BE-7	0.0000	0.1490	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	K-40	26.6010	0.0000	0.73
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	MN-54	0.0000	0.0200	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CO-57	0.0000	0.0147	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CO-60	0.0000	0.0196	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	ZN-65	0.0000	0.0664	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	NB-95	0.0000	0.0236	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RH-101	0.0000	0.0113	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RH-102	0.0000	0.0289	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RH-102M	0.0000	0.0167	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	AG-110M	0.0000	0.0278	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CD-109	0.0000	0.8910	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	SB-125	0.0000	0.0545	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CS-134	0.0000	0.0384	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CS-137	0.1761	0.0000	0.02
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	BA-133	0.0000	0.0251	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CE-139	0.0000	0.0162	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CE-144	0.0000	0.0703	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	EU-152	0.0000	0.0588	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	EU-154	0.0000	0.0329	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	EU-155	0.0830	0.0000	0.07
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	PU-242	0.0000	1.0900	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	AM-243	0.0000	0.7710	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	HG-203	0.0000	0.0121	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	PB-210	1.4607	0.0000	0.81
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	SR-85	0.0000	0.0130	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CS-136	0.0000	0.0120	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	NP-237	0.0000	0.7620	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	U-237	0.0000	0.0792	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	NP-239	0.0000	0.0804	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	TH-234	2.5134	0.0000	0.71
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RA-224	1.3551	0.0000	0.65
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	SN-113	0.0000	0.0214	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	Y-88	0.0000	0.0060	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	CR-51	0.0000	0.1270	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	FE-59	0.0000	0.0234	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	ZR-95	0.0000	0.0358	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	MO-99	0.0000	0.0216	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	RU-103	0.0000	0.0161	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	SB-124	0.0000	0.0396	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	TE-132	0.0000	0.0206	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	XE-133	0.0000	0.2570	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	XE-133M	0.0000	0.1070	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	BA-140	0.1758	0.0000	0.15
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	ND-147	0.0000	0.0994	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	PU-239	0.0000	88200.0000	
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	PB-212	1.8135	0.0000	0.07
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	PB-214	0.8706	0.0000	0.07

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	U-235	0.1743	0.0000	0.14
VPG0301JE	VP30194	0 - 2"	157.1, 191	9/19/94	BI-214	0.8670	0.0000	0.06
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	NA-22	0.0000	0.0328	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	BI-207	0.0000	0.0210	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RA-226	3.2234	0.0000	0.62
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	AC-228	1.5086	0.0000	0.17
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	TH-228	0.0000	6.5900	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	AM-241	0.0000	0.3290	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	BE-7	0.0000	0.2400	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	K-40	19.9910	0.0000	0.89
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	MN-54	0.0379	0.0000	0.03
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CO-57	0.0000	0.0108	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CO-60	0.0000	0.0162	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	ZN-65	0.0000	0.0926	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	NB-95	0.0000	0.0234	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RH-101	0.0000	0.0338	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RH-102	0.0000	0.0356	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RH-102M	0.0000	0.0217	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	AG-110M	0.0000	0.0376	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CD-109	0.0000	1.6600	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	SB-125	0.0000	0.0472	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CS-134	0.0000	0.0473	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CS-137	0.1795	0.0000	0.03
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	BA-133	0.0000	0.0276	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CE-139	0.0000	0.0174	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CE-144	0.0000	0.1380	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	EU-152	0.0000	0.0666	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	EU-154	0.0000	0.0396	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	EU-155	0.1588	0.0000	0.11
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	PU-242	0.0000	22.7000	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	AM-243	0.0000	18.6000	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	HG-203	0.0000	0.0277	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	PB-210	0.0000	14.0000	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	SR-85	0.0000	0.0166	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CS-136	0.0000	0.0222	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	NP-237	0.0000	223.0000	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	U-237	0.0000	0.1180	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	NP-239	0.0000	0.1180	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	TH-234	5.4570	0.0000	1.30
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RA-224	1.4324	0.0000	0.79
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	SN-113	0.0000	0.0263	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	Y-88	0.0000	0.0211	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	CR-51	0.0000	0.1990	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	FE-59	0.0000	0.0379	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	ZR-95	0.0000	0.0471	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	MO-99	0.0000	0.0240	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	RU-103	0.0000	0.0285	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	SB-124	0.0000	0.0489	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	TE-132	0.0000	0.0198	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	XE-133	0.0000	53.5000	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	XE-133M	0.0000	0.1620	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	BA-140	0.0000	0.0538	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	ND-147	0.0000	0.1730	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	PU-239	0.0000	113000.0000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	PB-212	1.8028	0.0000	0.08
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	PB-214	0.9120	0.0000	0.08
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	U-235	0.0000	0.1530	
VPG0302JE	VP30194	2 - 4"	157.1, 191	9/19/94	BI-214	0.8067	0.0000	0.07
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	NA-22	0.0000	0.0227	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	BI-207	0.0000	0.0219	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RA-226	2.6030	0.0000	0.72
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	AC-228	1.8459	0.0000	0.17
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	TH-228	4.4645	0.0000	3.66
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	AM-241	0.0000	0.0649	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	BE-7	0.0000	0.2120	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	K-40	18.1570	0.0000	0.71
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	MN-54	0.0000	0.0212	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CO-57	0.0000	0.0228	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CO-60	0.0000	0.0182	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	ZN-65	0.0000	0.0752	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	NB-95	0.0000	0.0268	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RH-101	0.0000	0.0321	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RH-102	0.0000	0.0332	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RH-102M	0.0000	0.0564	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	AG-110M	0.0000	0.0292	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CD-109	0.0000	1.0000	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	SB-125	0.0000	0.0676	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CS-134	0.0000	0.0447	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CS-137	0.0620	0.0000	0.02
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	BA-133	0.0000	0.0282	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CE-139	0.0000	0.0221	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CE-144	0.0000	0.0790	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	EU-152	0.0000	0.0599	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	EU-154	0.0000	0.0434	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	EU-155	0.1315	0.0000	0.07
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	PU-242	0.0000	1.2000	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	AM-243	0.0000	0.8530	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	HG-203	0.0000	0.0178	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	PB-210	1.5385	0.0000	0.88
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	SR-85	0.0000	0.0175	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CS-136	0.0000	0.0132	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	NP-237	0.0000	0.8820	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	U-237	0.0000	0.0826	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	NP-239	0.0000	0.0836	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	TH-234	1.9457	0.0000	0.67
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RA-224	2.5948	0.0000	0.74
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	SN-113	0.0000	0.0265	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	Y-88	0.0000	0.0185	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	CR-51	0.0000	0.1720	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	FE-59	0.0000	0.0368	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	ZR-95	0.0000	0.0380	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	MO-99	0.0000	0.0249	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	RU-103	0.0000	0.0233	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	SB-124	0.0000	0.0460	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	TE-132	0.0000	0.0236	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	XE-133	0.0000	0.1790	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	XE-133M	0.0000	0.1390	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	BA-140	0.0000	0.1020	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	ND-147	0.0000	0.1110	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	PU-239	0.0000	109000.0000	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	PB-212	2.3339	0.0000	0.08
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	PB-214	1.0259	0.0000	0.08
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	U-235	0.0000	0.1620	
VPG0303JE	VP30194	4 - 6"	157.1, 191	9/20/94	BI-214	0.9889	0.0000	0.07
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	NA-22	0.0000	0.0138	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	BI-207	0.0000	0.0200	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RA-226	2.4198	0.0000	0.80
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	AC-228	1.7539	0.0000	0.13
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	TH-228	5.1473	0.0000	3.24
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	AM-241	0.0000	0.0586	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	BE-7	0.0000	0.1880	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	K-40	28.1600	0.0000	0.72
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	MN-54	0.0000	0.0174	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CO-57	0.0000	0.0150	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CO-60	0.0000	0.0176	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	ZN-65	0.0000	0.0723	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	NB-95	0.0000	0.0205	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RH-101	0.0000	0.0264	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RH-102	0.0000	0.0316	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RH-102M	0.0000	0.0388	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	AG-110M	0.0000	0.0250	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CD-109	0.0000	0.8850	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	SB-125	0.0000	0.0532	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CS-134	0.0000	0.0400	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CS-137	0.0601	0.0000	0.02
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	BA-133	0.0000	0.0242	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CE-139	0.0000	0.0181	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CE-144	0.0000	0.1750	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	EU-152	0.0000	0.0641	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	EU-154	0.0000	0.0340	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	EU-155	0.0859	0.0000	0.07
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	PU-242	0.0000	1.0800	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	AM-243	0.0000	0.7660	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	HG-203	0.0000	0.0171	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	PB-210	1.6746	0.0000	0.80
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	SR-85	0.0000	0.0151	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CS-136	0.0000	0.0094	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	NP-237	0.0000	0.7800	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	U-237	0.0000	0.0773	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	NP-239	0.0000	0.0784	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	TH-234	0.0000	0.6690	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RA-224	1.9070	0.0000	0.71
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	SN-113	0.0000	0.0260	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	Y-88	0.0000	0.0097	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	CR-51	0.0000	0.1750	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	FE-59	0.0000	0.0352	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	ZR-95	0.0000	0.0406	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	MO-99	0.0000	0.0223	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	RU-103	0.0000	0.0186	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	SB-124	0.0000	0.0414	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	TE-132	0.0000	0.0183	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	XE-133	0.0000	0.2620	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	XE-133M	0.0000	0.1350	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	BA-140	0.0000	0.0852	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	ND-147	0.0000	0.0980	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	PU-239	0.0000	106000.0000	
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	PB-212	2.0337	0.0000	0.07
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	PB-214	1.2087	0.0000	0.07
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	U-235	0.1519	0.0000	0.14
VPG0304JE	VP30294	0 - 2"	157.1, 191	9/22/94	BI-214	1.0904	0.0000	0.06
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	NA-22	0.0000	0.0230	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	BI-207	0.0000	0.0251	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RA-226	2.9376	0.0000	0.69
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	AC-228	2.7630	0.0000	0.17
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	TH-228	5.9326	0.0000	3.74
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	AM-241	0.0000	0.0559	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	BE-7	0.0000	0.2130	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	K-40	32.8160	0.0000	0.79
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	MN-54	0.0448	0.0000	0.02
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CO-57	0.0000	0.0230	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CO-60	0.0000	0.0202	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	ZN-65	0.0000	0.0731	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	NB-95	0.0000	0.0216	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RH-101	0.0000	0.0326	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RH-102	0.0000	0.0356	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RH-102M	0.0000	0.0530	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	AG-110M	0.0000	0.0223	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CD-109	1.1082	0.0000	1.02
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	SB-125	0.0000	0.0276	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CS-134	0.0000	0.0437	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CS-137	0.0000	0.0217	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	BA-133	0.0000	0.0282	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CE-139	0.0000	0.0197	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CE-144	0.0000	0.1390	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	EU-152	0.0000	0.0639	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	EU-154	0.0000	0.0455	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	EU-155	0.1554	0.0000	0.08
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	PU-242	0.0000	1.1400	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	AM-243	0.0000	0.7660	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	HG-203	0.0000	0.0170	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	PB-210	1.4511	0.0000	0.86
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	SR-85	0.0000	0.0173	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CS-136	0.0000	0.0190	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	NP-237	0.0000	0.4670	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	U-237	0.0000	0.0505	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	NP-239	0.0000	0.0878	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	TH-234	2.0925	0.0000	0.92
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RA-224	2.5291	0.0000	0.86
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	SN-113	0.0000	0.0182	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	Y-88	0.0000	0.0134	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	CR-51	0.0000	0.1280	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	FE-59	0.0000	0.0375	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	ZR-95	0.0000	0.0452	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	MO-99	0.0000	0.0249	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	RU-103	0.0000	0.0162	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	SB-124	0.0000	0.0449	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	TE-132	0.0000	0.0199	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	XE-133	0.0000	0.2670	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	XE-133M	0.0000	0.1920	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	BA-140	0.0000	0.0998	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	ND-147	0.0000	0.1140	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	PU-239	0.0000	107000.0000	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	PB-212	3.0989	0.0000	0.08
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	PB-214	1.3320	0.0000	0.08
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	U-235	0.0000	0.1640	
VPG0305JE	VP30294	2 - 4"	157.1, 191	9/25/94	BI-214	1.2764	0.0000	0.07
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	NA-22	0.0000	0.0173	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	BI-207	0.0373	0.0000	0.04
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RA-226	2.7753	0.0000	1.01
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	AC-228	2.3404	0.0000	0.14
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	TH-228	6.5348	0.0000	3.69
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	AM-241	0.0000	0.0663	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	BE-7	0.0000	0.1570	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	K-40	27.6180	0.0000	0.79
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	MN-54	0.0506	0.0000	0.02
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CO-57	0.0000	0.0214	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CO-60	0.0000	0.0235	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	ZN-65	0.0000	0.0741	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	NB-95	0.0000	0.0221	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RH-101	0.0000	0.0324	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RH-102	0.0000	0.0176	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RH-102M	0.0000	0.0349	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	AG-110M	0.0000	0.0260	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CD-109	0.0000	1.0100	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	SB-125	0.0000	0.0502	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CS-134	0.0000	0.0442	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CS-137	0.0000	0.0229	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	BA-133	0.0000	0.0251	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CE-139	0.0000	0.0181	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CE-144	0.0000	0.0780	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	EU-152	0.0000	0.0580	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	EU-154	0.0000	0.0396	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	EU-155	0.1323	0.0000	0.08
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	PU-242	0.0000	0.6420	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	AM-243	0.0000	0.8240	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	HG-203	0.0000	0.0137	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	PB-210	1.5318	0.0000	0.91
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	SR-85	0.0000	0.0166	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CS-136	0.0000	0.0125	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	NP-237	0.0000	0.4740	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	U-237	0.0000	0.0673	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	NP-239	0.0000	0.0878	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	TH-234	2.0687	0.0000	1.08
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RA-224	2.6339	0.0000	0.82
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	SN-113	0.0000	0.0190	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	Y-88	0.0000	0.0123	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	CR-51	0.0000	0.1480	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	FE-59	0.0000	0.0348	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	ZR-95	0.0000	0.0424	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	MO-99	0.0000	0.0181	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	RU-103	0.0000	0.0195	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	SB-124	0.0000	0.0456	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	TE-132	0.0000	0.0218	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	XE-133	0.0000	0.2910	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	XE-133M	0.0000	0.1530	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	BA-140	0.0000	0.1110	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	ND-147	0.1137	0.0000	0.11
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	PU-239	0.0000	60400.0000	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	PB-212	2.8915	0.0000	0.08
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	PB-214	1.2899	0.0000	0.09
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	U-235	0.0000	0.1530	
VPG0306JE	VP30294	4 - 6"	157.1, 191	9/21/94	BI-214	1.1898	0.0000	0.07
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NA-22	0.0000	0.0197	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BI-207	0.0458	0.0000	0.02
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RA-226	1.8884	0.0000	0.58
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AC-228	1.2591	0.0000	0.15
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TH-228	0.0000	5.2500	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AM-241	0.0000	0.2280	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BE-7	0.0000	0.1610	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	K-40	21.4980	0.0000	0.81
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	MN-54	0.0000	0.0213	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CO-57	0.0000	0.0161	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CO-60	0.0000	0.0256	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ZN-65	0.0000	0.0771	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NB-95	0.0000	0.0247	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-101	0.0000	0.0264	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-102	0.0000	0.0292	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-102M	0.0000	0.0452	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AG-110M	0.0000	0.0233	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CD-109	0.0000	1.3100	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SB-125	0.0000	0.0496	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-134	0.0000	0.0359	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-137	0.0000	0.0205	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BA-133	0.0000	0.0239	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CE-139	0.0000	0.0145	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CE-144	0.0000	0.1420	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-152	0.0000	0.0538	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-154	0.0000	0.0321	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-155	0.0000	0.0819	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PU-242	0.0000	19.9000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AM-243	0.0000	15.5000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	HG-203	0.0000	0.0175	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-210	0.0000	12.6000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SR-85	0.0000	0.0158	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-136	0.0000	0.0168	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NP-237	0.0000	173.0000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	U-237	0.0000	0.0967	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NP-239	0.0000	0.0890	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TH-234	0.0000	1.8400	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RA-224	1.2023	0.0000	0.62
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SN-113	0.0000	0.0231	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	Y-88	0.0000	0.0164	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CR-51	0.0000	0.1580	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	FE-59	0.0442	0.0000	0.04

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ZR-95	0.0000	0.0395	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	MO-99	0.0000	0.0198	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RU-103	0.0000	0.0208	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SB-124	0.0000	0.0373	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TE-132	0.0000	0.0174	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	XE-133	0.0000	41.7000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	XE-133M	0.0000	0.1260	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BA-140	0.0000	0.0829	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ND-147	0.0000	0.1370	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PU-239	0.0000	94400.0000	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-212	1.4319	0.0000	0.06
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-214	0.7107	0.0000	0.06
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	U-235	0.0000	0.1260	
VPG0307JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BI-214	0.6580	0.0000	0.05
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	NA-22	0.0000	0.0211	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	BI-207	0.0000	0.0152	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RA-226	2.9343	0.0000	0.48
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	AC-228	1.2118	0.0000	0.13
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	TH-228	0.0000	3.3600	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	AM-241	0.0000	0.1560	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	BE-7	0.0000	0.1250	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	K-40	29.9490	0.0000	0.64
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	MN-54	0.0000	0.0101	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CO-57	0.0000	0.0090	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CO-60	0.0000	0.0153	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	ZN-65	0.0000	0.0590	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	NB-95	0.0000	0.0206	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RH-101	0.0000	0.0260	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RH-102	0.0000	0.0271	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RH-102M	0.0000	0.0365	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	AG-110M	0.0000	0.0202	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CD-109	0.0000	0.6700	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	SB-125	0.0000	0.0446	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CS-134	0.0000	0.0150	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CS-137	0.0200	0.0000	0.02
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	BA-133	0.0000	0.0176	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CE-139	0.0000	0.0167	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CE-144	0.0000	0.0930	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	EU-152	0.0000	0.0455	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	EU-154	0.0000	0.0307	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	EU-155	0.0883	0.0000	0.09
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	PU-242	0.0000	6.5200	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	AM-243	0.0000	3.9700	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	HG-203	0.0000	0.0123	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	PB-210	0.0000	4.0700	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	SR-85	0.0000	0.0145	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CS-136	0.0000	0.0068	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	NP-237	0.0000	17.8000	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	U-237	0.0000	0.0375	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	NP-239	0.0000	0.0964	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	TH-234	3.4322	0.0000	0.67
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RA-224	0.9862	0.0000	0.50
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	SN-113	0.0000	0.0159	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	Y-88	0.0000	0.0054	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	CR-51	0.0000	0.0772	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	FE-59	0.0000	0.0329	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	ZR-95	0.0000	0.0284	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	MO-99	0.0000	0.0129	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	RU-103	0.0000	0.0138	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	SB-124	0.0000	0.0164	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	TE-132	0.0000	0.0127	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	XE-133	0.0000	10.2000	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	XE-133M	0.0000	0.1240	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	BA-140	0.0000	0.0770	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	ND-147	0.0000	0.1150	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	PU-239	0.0000	87000.0000	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	PB-212	1.4359	0.0000	0.06
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	PB-214	0.8247	0.0000	0.07
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	U-235	0.0000	0.1340	
VPG0308JE	VP30394	2 - 4"	128, 134 (N), 171	9/21/94	BI-214	0.8430	0.0000	0.06
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	NA-22	0.0000	0.0188	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	BI-207	0.0000	0.0190	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RA-226	2.6450	0.0000	0.50
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	AC-228	1.0377	0.0000	0.14
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	TH-228	0.0000	6.6200	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	AM-241	0.0000	0.4580	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	BE-7	0.0000	0.1680	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	K-40	28.1290	0.0000	0.63
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	MN-54	0.0000	0.0179	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CO-57	0.0000	0.0451	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CO-60	0.0000	0.0104	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	ZN-65	0.0000	0.0575	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	NB-95	0.0000	0.0218	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RH-101	0.0000	0.0501	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RH-102	0.0000	0.0260	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RH-102M	0.0000	0.0434	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	AG-110M	0.0000	0.0210	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CD-109	0.0000	1.7500	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	SB-125	0.0000	0.0478	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CS-134	0.0000	0.0313	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CS-137	0.0000	0.0219	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	BA-133	0.0000	0.0281	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CE-139	0.0000	0.0174	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CE-144	0.0000	0.2610	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	EU-152	0.0000	0.0548	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	EU-154	0.0000	0.0931	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	EU-155	0.0000	0.1130	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	PU-242	0.0000	15.4000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	AM-243	0.0000	7.9300	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	HG-203	0.0000	0.0186	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	PB-210	0.0000	10.1000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	SR-85	0.0000	0.0144	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CS-136	0.0000	0.0123	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	NP-237	0.0000	164.0000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	U-237	0.0000	0.1250	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	NP-239	0.0000	0.1140	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	TH-234	0.0000	2.8000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RA-224	3.5235	0.0000	0.69

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	SN-113	0.0000	0.0089	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	Y-88	0.0000	0.0076	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	CR-51	0.0000	0.2030	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	FE-59	0.0000	0.0376	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	ZR-95	0.0000	0.0496	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	MO-99	0.0000	0.0242	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	RU-103	0.0000	0.0140	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	SB-124	0.0000	0.0325	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	TE-132	0.0000	0.0401	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	XE-133	0.0000	22.0000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	XE-133M	0.0000	0.3200	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	BA-140	0.0000	0.0690	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	ND-147	0.2039	0.0000	0.20
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	PU-239	0.0000	72300.0000	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	PB-212	1.1880	0.0000	0.06
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	PB-214	0.7207	0.0000	0.06
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	U-235	0.0000	0.1760	
VPG0309JE	VP30394	4 - 6"	128, 134 (N), 171	9/21/94	BI-214	0.7774	0.0000	0.05
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	NA-22	0.0000	0.0131	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	BI-207	0.0000	0.0163	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RA-226	2.0959	0.0000	0.73
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	AC-228	1.9725	0.0000	0.15
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	TH-228	0.0000	5.9000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	AM-241	0.0000	0.2620	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	BE-7	0.0000	0.1670	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	K-40	23.8090	0.0000	0.80
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	MN-54	0.0497	0.0000	0.04
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CO-57	0.0000	0.0188	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CO-60	0.0000	0.0267	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	ZN-65	0.0000	0.0774	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	NB-95	0.0000	0.0267	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RH-101	0.0000	0.0260	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RH-102	0.0000	0.0425	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RH-102M	0.0000	0.0468	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	AG-110M	0.0000	0.0271	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CD-109	0.0000	1.4700	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	SB-125	0.0000	0.0358	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CS-134	0.0000	0.0400	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CS-137	0.0574	0.0000	0.02
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	BA-133	0.0000	0.0255	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CE-139	0.0000	0.0178	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CE-144	0.0000	0.1450	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	EU-152	0.0000	0.0661	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	EU-154	0.0000	0.0378	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	EU-155	0.1098	0.0000	0.09
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	PU-242	0.0000	14.1000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	AM-243	0.0000	11.4000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	HG-203	0.0000	0.0188	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	PB-210	0.0000	8.9200	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	SR-85	0.0000	0.0099	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CS-136	0.0000	0.0224	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	NP-237	0.0000	57.2000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	U-237	0.0000	0.1220	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	NP-239	0.0000	0.1040	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	TH-234	0.0000	1.9000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RA-224	2.5060	0.0000	0.66
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	SN-113	0.0000	0.0292	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	Y-88	0.0000	0.0182	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	CR-51	0.0000	0.1580	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	FE-59	0.0000	0.0371	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	ZR-95	0.0000	0.0389	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	MO-99	0.0000	0.0222	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	RU-103	0.0000	0.0209	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	SB-124	0.0000	0.0414	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	TE-132	0.0000	0.0163	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	XE-133	0.0000	24.7000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	XE-133M	0.0000	0.1590	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	BA-140	0.0000	0.1100	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	ND-147	0.0000	0.1520	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	PU-239	0.0000	80100.0000	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	PB-212	2.3741	0.0000	0.08
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	PB-214	0.8976	0.0000	0.07
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	U-235	0.0000	0.1410	
VPG0310JE	VP30494	0 - 2"	134 (S)	9/18/94	BI-214	0.7665	0.0000	0.06
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	NA-22	0.0000	0.0175	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	BI-207	0.0000	0.0160	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RA-226	3.6160	0.0000	0.49
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	AC-228	0.0000	0.0716	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	TH-228	5.0317	0.0000	3.96
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	AM-241	0.0000	0.1100	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	BE-7	0.0000	0.1110	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	K-40	0.0000	0.5170	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	MN-54	0.0304	0.0000	0.01
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CO-57	0.0000	0.0147	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CO-60	0.0000	0.0148	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	ZN-65	0.0000	0.0297	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	NB-95	0.0000	0.0167	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RH-101	0.0000	0.0159	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RH-102	0.0000	0.0239	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RH-102M	0.0000	0.0242	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	AG-110M	0.0000	0.0349	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CD-109	0.0000	0.9700	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	SB-125	0.0000	0.0197	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CS-134	0.0000	0.0132	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CS-137	0.4681	0.0000	0.03
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	BA-133	0.0000	0.0173	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CE-139	0.0000	0.0138	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CE-144	0.0000	0.0674	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	EU-152	0.0000	0.0361	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	EU-154	0.0000	0.0264	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	EU-155	0.0000	0.0667	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	PU-242	0.0000	8.0600	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	AM-243	0.0000	6.3800	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	HG-203	0.0000	0.0155	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	PB-210	0.0000	4.8900	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	SR-85	0.0000	0.0103	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CS-136	0.0000	0.0125	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	NP-237	0.0000	57.7000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	U-237	0.0000	0.0784	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	NP-239	0.0000	0.0722	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	TH-234	0.0000	1.4000	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RA-224	2.5678	0.0000	0.43
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	SN-113	0.0000	0.0200	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	Y-88	0.0000	0.0096	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	CR-51	0.0000	0.1180	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	FE-59	0.0000	0.0357	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	ZR-95	0.0000	0.0258	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	MO-99	0.0000	0.0129	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	RU-103	0.0000	0.0137	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	SB-124	0.0000	0.0136	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	TE-132	0.0000	0.0153	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	XE-133	0.0000	14.6000	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	XE-133M	0.0000	0.0893	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	BA-140	0.0000	0.0573	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	ND-147	0.0000	0.0971	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	PU-239	0.0000	38400.0000	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	PB-212	1.4107	0.0000	0.06
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	PB-214	0.0000	0.0567	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	U-235	0.0000	0.1270	
VPG0311JE	VP30494	2 - 4"	134 (S)	9/18/94	BI-214	0.0000	0.0521	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	NA-22	0.0000	0.0202	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	BI-207	0.0000	0.0183	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RA-226	2.2445	0.0000	0.63
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	AC-228	1.4069	0.0000	0.14
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	TH-228	5.9784	0.0000	3.44
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	AM-241	0.0000	0.0986	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	BE-7	0.0000	0.1710	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	K-40	13.6140	0.0000	0.55
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	MN-54	0.0000	0.0162	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CO-57	0.0000	0.0408	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CO-60	0.0000	0.0140	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	ZN-65	0.0000	0.0645	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	NB-95	0.0000	0.0211	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RH-101	0.0000	0.0468	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RH-102	0.0000	0.0279	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RH-102M	0.0000	0.0203	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	AG-110M	0.0000	0.0236	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CD-109	0.0000	0.9900	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	SB-125	0.0000	0.0488	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CS-134	0.0000	0.0360	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CS-137	0.0636	0.0000	0.02
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	BA-133	0.0000	0.0277	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CE-139	0.0000	0.0224	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CE-144	0.0000	0.2530	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	EU-152	0.0000	0.0517	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	EU-154	0.0000	0.0848	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	EU-155	0.1022	0.0000	0.07
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	PU-242	0.0000	1.0900	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	AM-243	0.0000	0.4030	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	HG-203	0.0000	0.0130	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	PB-210	0.8945	0.0000	0.82
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	SR-85	0.0000	0.0080	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CS-136	0.0000	0.0179	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	NP-237	0.0000	0.9450	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	U-237	0.0000	0.0795	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	NP-239	0.0000	0.0711	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	TH-234	1.6144	0.0000	0.70
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RA-224	1.4604	0.0000	0.74
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	SN-113	0.0000	0.0172	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	Y-88	0.0000	0.0133	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	CR-51	0.0000	0.2480	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	FE-59	0.0000	0.0132	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	ZR-95	0.0000	0.0263	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	MO-99	0.0000	0.0235	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	RU-103	0.0000	0.0090	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	SB-124	0.0000	0.0372	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	TE-132	0.0000	0.0124	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	XE-133	0.0000	0.3200	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	XE-133M	0.0000	0.1360	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	BA-140	0.0000	0.0583	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	ND-147	0.0000	0.1170	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	PU-239	0.0000	63700.0000	
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	PB-212	1.8996	0.0000	0.07
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	PB-214	0.8586	0.0000	0.06
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	U-235	0.2243	0.0000	0.16
VPG0312JE	VP30494	4 - 6"	134 (S)	9/28/94	BI-214	0.8381	0.0000	0.06
VPG0313JE	VP30594	0 - 2"	158	9/22/94	NA-22	0.0000	0.0128	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	BI-207	0.0000	0.0212	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RA-226	1.6091	0.0000	0.58
VPG0313JE	VP30594	0 - 2"	158	9/22/94	AC-228	1.2003	0.0000	0.14
VPG0313JE	VP30594	0 - 2"	158	9/22/94	TH-228	0.0000	5.0100	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	AM-241	0.0000	0.2160	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	BE-7	0.0000	0.1390	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	K-40	15.3760	0.0000	0.70
VPG0313JE	VP30594	0 - 2"	158	9/22/94	MN-54	0.0000	0.0222	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CO-57	0.0000	0.0150	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CO-60	0.0000	0.0149	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	ZN-65	0.0000	0.0623	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	NB-95	0.0000	0.0216	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RH-101	0.0000	0.0249	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RH-102	0.0000	0.0292	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RH-102M	0.0000	0.0390	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	AG-110M	0.0000	0.0262	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CD-109	0.0000	1.2500	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	SB-125	0.0000	0.0398	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CS-134	0.0000	0.0182	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CS-137	0.1084	0.0000	0.02
VPG0313JE	VP30594	0 - 2"	158	9/22/94	BA-133	0.0000	0.0245	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CE-139	0.0000	0.0175	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CE-144	0.0000	0.0865	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	EU-152	0.0000	0.0553	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	EU-154	0.0000	0.0300	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	EU-155	0.0000	0.0901	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	PU-242	0.0000	17.6000	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	AM-243	0.0000	5.0300	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	HG-203	0.0000	0.0216	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0313JE	VP30594	0 - 2"	158	9/22/94	PB-210	0.0000	11.0000	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	SR-85	0.0000	0.0144	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CS-136	0.0000	0.0160	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	NP-237	0.0000	156.0000	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	U-237	0.0000	0.0819	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	NP-239	0.0000	0.0946	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	TH-234	2.7521	0.0000	0.89
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RA-224	1.2389	0.0000	0.58
VPG0313JE	VP30594	0 - 2"	158	9/22/94	SN-113	0.0000	0.0125	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	Y-88	0.0000	0.0117	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	CR-51	0.0000	0.1360	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	FE-59	0.0000	0.0317	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	ZR-95	0.0000	0.0344	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	MO-99	0.0000	0.0190	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	RU-103	0.0000	0.0093	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	SB-124	0.0000	0.0348	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	TE-132	0.0000	0.0094	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	XE-133	0.0000	37.3000	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	XE-133M	0.0000	0.1060	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	BA-140	0.0000	0.0917	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	ND-147	0.1287	0.0000	0.13
VPG0313JE	VP30594	0 - 2"	158	9/22/94	PU-239	0.0000	92800.0000	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	PB-212	1.3706	0.0000	0.06
VPG0313JE	VP30594	0 - 2"	158	9/22/94	PB-214	0.5790	0.0000	0.06
VPG0313JE	VP30594	0 - 2"	158	9/22/94	U-235	0.0000	0.1220	
VPG0313JE	VP30594	0 - 2"	158	9/22/94	BI-214	0.4849	0.0000	0.05
VPG0314JE	VP30594	2 - 4"	158	9/20/94	NA-22	0.0000	0.0175	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	BI-207	0.0256	0.0000	0.02
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RA-226	2.3113	0.0000	0.41
VPG0314JE	VP30594	2 - 4"	158	9/20/94	AC-228	1.1821	0.0000	0.12
VPG0314JE	VP30594	2 - 4"	158	9/20/94	TH-228	3.4873	0.0000	2.89
VPG0314JE	VP30594	2 - 4"	158	9/20/94	AM-241	0.0000	0.1560	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	BE-7	0.0000	0.1050	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	K-40	20.9620	0.0000	0.51
VPG0314JE	VP30594	2 - 4"	158	9/20/94	MN-54	0.0000	0.0167	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CO-57	0.0000	0.0141	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CO-60	0.0000	0.0122	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	ZN-65	0.0000	0.0522	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	NB-95	0.0000	0.0175	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RH-101	0.0000	0.0156	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RH-102	0.0000	0.0229	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RH-102M	0.0000	0.0276	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	AG-110M	0.0000	0.0207	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CD-109	0.0000	0.5990	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	SB-125	0.0000	0.0319	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CS-134	0.0000	0.0138	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CS-137	0.0989	0.0000	0.02
VPG0314JE	VP30594	2 - 4"	158	9/20/94	BA-133	0.0000	0.0137	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CE-139	0.0000	0.0126	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CE-144	0.0000	0.0941	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	EU-152	0.0000	0.0438	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	EU-154	0.0000	0.0281	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	EU-155	0.0000	0.0750	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	PU-242	0.0000	6.2200	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0314JE	VP30594	2 - 4"	158	9/20/94	AM-243	0.0000	4.8000	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	HG-203	0.0000	0.0117	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	PB-210	0.0000	4.0400	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	SR-85	0.0000	0.0092	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CS-136	0.0000	0.0077	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	NP-237	0.0000	32.9000	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	U-237	0.0000	0.0857	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	NP-239	0.0000	0.0823	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	TH-234	0.0000	1.3200	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RA-224	1.4406	0.0000	0.40
VPG0314JE	VP30594	2 - 4"	158	9/20/94	SN-113	0.0000	0.0116	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	Y-88	0.0000	0.0134	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	CR-51	0.0000	0.1160	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	FE-59	0.0000	0.0219	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	ZR-95	0.0000	0.0290	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	MO-99	0.0000	0.0120	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	RU-103	0.0000	0.0072	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	SB-124	0.0000	0.0142	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	TE-132	0.0000	0.0147	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	XE-133	5.5812	0.0000	5.37
VPG0314JE	VP30594	2 - 4"	158	9/20/94	XE-133M	0.0000	0.0971	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	BA-140	0.1130	0.0000	0.09
VPG0314JE	VP30594	2 - 4"	158	9/20/94	ND-147	0.0000	0.0401	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	PU-239	0.0000	53300.0000	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	PB-212	1.4897	0.0000	0.05
VPG0314JE	VP30594	2 - 4"	158	9/20/94	PB-214	0.7078	0.0000	0.06
VPG0314JE	VP30594	2 - 4"	158	9/20/94	U-235	0.0000	0.1100	
VPG0314JE	VP30594	2 - 4"	158	9/20/94	BI-214	0.6272	0.0000	0.05
VPG0315JE	VP30594	4 - 6"	158	9/23/94	NA-22	0.0000	0.0219	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	BI-207	0.0411	0.0000	0.03
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RA-226	2.4638	0.0000	0.74
VPG0315JE	VP30594	4 - 6"	158	9/23/94	AC-228	1.6817	0.0000	0.15
VPG0315JE	VP30594	4 - 6"	158	9/23/94	TH-228	4.7152	0.0000	3.51
VPG0315JE	VP30594	4 - 6"	158	9/23/94	AM-241	0.0000	0.0664	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	BE-7	0.0000	0.1830	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	K-40	20.5650	0.0000	0.69
VPG0315JE	VP30594	4 - 6"	158	9/23/94	MN-54	0.0000	0.0183	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CO-57	0.0000	0.0173	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CO-60	0.0000	0.0175	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	ZN-65	0.0000	0.0740	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	NB-95	0.0000	0.0241	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RH-101	0.0000	0.0302	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RH-102	0.0000	0.0363	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RH-102M	0.0000	0.0498	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	AG-110M	0.0000	0.0105	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CD-109	0.0000	0.9810	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	SB-125	0.0000	0.0541	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CS-134	0.0000	0.0403	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CS-137	0.0390	0.0000	0.02
VPG0315JE	VP30594	4 - 6"	158	9/23/94	BA-133	0.0000	0.0271	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CE-139	0.0000	0.0193	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CE-144	0.0000	0.1210	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	EU-152	0.0000	0.0556	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	EU-154	0.0000	0.0366	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0315JE	VP30594	4 - 6"	158	9/23/94	EU-155	0.1002	0.0000	0.07
VPG0315JE	VP30594	4 - 6"	158	9/23/94	PU-242	0.0000	1.0000	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	AM-243	0.0000	0.7150	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	HG-203	0.0000	0.0128	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	PB-210	0.9606	0.0000	0.71
VPG0315JE	VP30594	4 - 6"	158	9/23/94	SR-85	0.0000	0.0124	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CS-136	0.0000	0.0137	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	NP-237	0.0000	0.8090	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	U-237	0.0000	0.0827	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	NP-239	0.0000	0.0821	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	TH-234	1.4175	0.0000	0.81
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RA-224	1.7558	0.0000	0.74
VPG0315JE	VP30594	4 - 6"	158	9/23/94	SN-113	0.0000	0.0156	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	Y-88	0.0000	0.0117	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	CR-51	0.0000	0.1030	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	FE-59	0.0000	0.0565	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	ZR-95	0.0000	0.0407	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	MO-99	0.0000	0.0214	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	RU-103	0.0000	0.0147	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	SB-124	0.0000	0.0418	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	TE-132	0.0000	0.0210	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	XE-133	0.0000	0.2720	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	XE-133M	0.0000	0.0943	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	BA-140	0.0000	0.0688	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	ND-147	0.0000	0.1120	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	PU-239	0.0000	103000.0000	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	PB-212	2.0188	0.0000	0.07
VPG0315JE	VP30594	4 - 6"	158	9/23/94	PB-214	0.7483	0.0000	0.07
VPG0315JE	VP30594	4 - 6"	158	9/23/94	U-235	0.0000	0.1300	
VPG0315JE	VP30594	4 - 6"	158	9/23/94	BI-214	0.7495	0.0000	0.06
VPG0316JE	VP30694	0 - 2"	158	9/21/94	NA-22	0.0000	0.0101	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	BI-207	0.0000	0.0220	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RA-226	1.6962	0.0000	0.62
VPG0316JE	VP30694	0 - 2"	158	9/21/94	AC-228	2.0119	0.0000	0.13
VPG0316JE	VP30694	0 - 2"	158	9/21/94	TH-228	6.2817	0.0000	3.50
VPG0316JE	VP30694	0 - 2"	158	9/21/94	AM-241	0.0000	0.0593	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	BE-7	0.0000	0.1820	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	K-40	0.0000	0.9540	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	MN-54	0.0432	0.0000	0.03
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CO-57	0.0000	0.0179	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CO-60	0.0000	0.0210	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	ZN-65	0.0000	0.0708	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	NB-95	0.0000	0.0122	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RH-101	0.0000	0.0305	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RH-102	0.0000	0.0300	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RH-102M	0.0000	0.0501	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	AG-110M	0.0000	0.0143	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CD-109	0.0000	0.9630	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	SB-125	0.0000	0.0273	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CS-134	0.0000	0.0406	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CS-137	0.0000	0.0225	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	BA-133	0.0000	0.0272	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CE-139	0.0000	0.0184	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CE-144	0.0000	0.0893	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0316JE	VP30694	0 - 2"	158	9/21/94	EU-152	0.0000	0.0581	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	EU-154	0.0000	0.0358	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	EU-155	0.1149	0.0000	0.07
VPG0316JE	VP30694	0 - 2"	158	9/21/94	PU-242	0.0000	1.0900	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	AM-243	0.0000	0.7740	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	HG-203	0.0000	0.0189	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	PB-210	0.9319	0.0000	0.79
VPG0316JE	VP30694	0 - 2"	158	9/21/94	SR-85	0.0000	0.0114	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CS-136	0.0000	0.0198	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	NP-237	0.0000	0.7980	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	U-237	0.0000	0.0523	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	NP-239	0.0000	0.0817	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	TH-234	1.3734	0.0000	0.67
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RA-224	2.9886	0.0000	0.64
VPG0316JE	VP30694	0 - 2"	158	9/21/94	SN-113	0.0000	0.0236	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	Y-88	0.0000	0.0208	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	CR-51	0.0000	0.1660	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	FE-59	0.0000	0.0476	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	ZR-95	0.0000	0.0270	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	MO-99	0.0000	0.0170	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	RU-103	0.0000	0.0208	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	SB-124	0.0000	0.0423	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	TE-132	0.0000	0.0207	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	XE-133	0.0000	0.2680	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	XE-133M	0.0000	0.1460	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	BA-140	0.0000	0.0474	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	ND-147	0.0000	0.1050	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	PU-239	0.0000	123000.0000	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	PB-212	2.3633	0.0000	0.08
VPG0316JE	VP30694	0 - 2"	158	9/21/94	PB-214	0.8392	0.0000	0.08
VPG0316JE	VP30694	0 - 2"	158	9/21/94	U-235	0.0000	0.1650	
VPG0316JE	VP30694	0 - 2"	158	9/21/94	BI-214	0.7882	0.0000	0.06
VPG0317JE	VP30694	2 - 4"	158	9/23/94	NA-22	0.0000	0.0192	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	BI-207	0.0000	0.0236	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RA-226	3.0370	0.0000	0.84
VPG0317JE	VP30694	2 - 4"	158	9/23/94	AC-228	1.9560	0.0000	0.22
VPG0317JE	VP30694	2 - 4"	158	9/23/94	TH-228	0.0000	8.6200	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	AM-241	0.0000	0.5210	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	BE-7	0.0000	0.2960	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	K-40	30.0980	0.0000	1.22
VPG0317JE	VP30694	2 - 4"	158	9/23/94	MN-54	0.0000	0.0394	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CO-57	0.0000	0.0212	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CO-60	0.0000	0.0167	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	ZN-65	0.0000	0.1200	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	NB-95	0.0000	0.0404	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RH-101	0.0000	0.0413	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RH-102	0.0000	0.0490	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RH-102M	0.0000	0.0813	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	AG-110M	0.0000	0.0420	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CD-109	2.8853	0.0000	2.12
VPG0317JE	VP30694	2 - 4"	158	9/23/94	SB-125	0.0000	0.0847	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CS-134	0.0000	0.0617	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CS-137	0.0499	0.0000	0.03
VPG0317JE	VP30694	2 - 4"	158	9/23/94	BA-133	0.0000	0.0412	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CE-139	0.0000	0.0275	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CE-144	0.0000	0.1030	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	EU-152	0.0000	0.0842	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	EU-154	0.0000	0.0505	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	EU-155	0.0000	0.1370	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	PU-242	0.0000	28.7000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	AM-243	0.0000	21.9000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	HG-203	0.0000	0.0328	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	PB-210	0.0000	18.2000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	SR-85	0.0000	0.0177	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CS-136	0.0000	0.0176	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	NP-237	0.0000	298.0000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	U-237	0.0000	0.1010	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	NP-239	0.0000	0.1480	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	TH-234	0.0000	3.2300	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RA-224	1.6635	0.0000	1.07
VPG0317JE	VP30694	2 - 4"	158	9/23/94	SN-113	0.0000	0.0199	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	Y-88	0.0000	0.0160	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	CR-51	0.0000	0.2050	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	FE-59	0.0000	0.0687	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	ZR-95	0.0000	0.0655	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	MO-99	0.0000	0.0327	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	RU-103	0.0000	0.0159	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	SB-124	0.0000	0.0638	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	TE-132	0.0000	0.0273	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	XE-133	0.0000	40.6000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	XE-133M	0.0000	0.2070	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	BA-140	0.0000	0.1490	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	ND-147	0.2592	0.0000	0.22
VPG0317JE	VP30694	2 - 4"	158	9/23/94	PU-239	0.0000	149000.0000	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	PB-212	2.2891	0.0000	0.11
VPG0317JE	VP30694	2 - 4"	158	9/23/94	PB-214	1.1703	0.0000	0.11
VPG0317JE	VP30694	2 - 4"	158	9/23/94	U-235	0.0000	0.2160	
VPG0317JE	VP30694	2 - 4"	158	9/23/94	BI-214	1.0224	0.0000	0.10
VPG0318JE	VP30694	4 - 6"	158	9/22/94	NA-22	0.0000	0.0229	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	BI-207	0.0000	0.0223	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RA-226	3.3008	0.0000	0.63
VPG0318JE	VP30694	4 - 6"	158	9/22/94	AC-228	1.6475	0.0000	0.17
VPG0318JE	VP30694	4 - 6"	158	9/22/94	TH-228	0.0000	4.2000	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	AM-241	0.0000	0.2040	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	BE-7	0.0000	0.1740	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	K-40	30.4640	0.0000	0.82
VPG0318JE	VP30694	4 - 6"	158	9/22/94	MN-54	0.0362	0.0000	0.03
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CO-57	0.0000	0.0165	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CO-60	0.0000	0.0219	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	ZN-65	0.0000	0.0703	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	NB-95	0.0000	0.0263	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RH-101	0.0000	0.0300	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RH-102	0.0000	0.0310	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RH-102M	0.0000	0.0306	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	AG-110M	0.0000	0.0268	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CD-109	0.0000	0.8350	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	SB-125	0.0000	0.0477	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CS-134	0.0000	0.0192	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CS-137	0.0468	0.0000	0.02
VPG0318JE	VP30694	4 - 6"	158	9/22/94	BA-133	0.0000	0.0149	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CE-139	0.0000	0.0184	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CE-144	0.0000	0.1410	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	EU-152	0.0000	0.0570	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	EU-154	0.0000	0.0402	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	EU-155	0.0000	0.0908	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	PU-242	0.0000	8.3700	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	AM-243	0.0000	6.7200	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	HG-203	0.0000	0.0165	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	PB-210	0.0000	5.3000	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	SR-85	0.0000	0.0174	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CS-136	0.0000	0.0204	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	NP-237	44.2480	0.0000	30.84
VPG0318JE	VP30694	4 - 6"	158	9/22/94	U-237	0.0000	0.0700	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	NP-239	0.0000	0.1050	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	TH-234	3.0660	0.0000	0.75
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RA-224	1.8002	0.0000	0.64
VPG0318JE	VP30694	4 - 6"	158	9/22/94	SN-113	0.0000	0.0298	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	Y-88	0.0000	0.0073	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	CR-51	0.0000	0.1700	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	FE-59	0.0000	0.0298	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	ZR-95	0.0000	0.0404	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	MO-99	0.0285	0.0000	0.02
VPG0318JE	VP30694	4 - 6"	158	9/22/94	RU-103	0.0000	0.0109	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	SB-124	0.0000	0.0206	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	TE-132	0.0000	0.0096	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	XE-133	0.0000	11.9000	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	XE-133M	0.0000	0.1670	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	BA-140	0.0000	0.0669	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	ND-147	0.0000	0.0908	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	PU-239	0.0000	96500.0000	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	PB-212	1.5469	0.0000	0.08
VPG0318JE	VP30694	4 - 6"	158	9/22/94	PB-214	0.8925	0.0000	0.10
VPG0318JE	VP30694	4 - 6"	158	9/22/94	U-235	0.0000	0.1680	
VPG0318JE	VP30694	4 - 6"	158	9/22/94	BI-214	1.0001	0.0000	0.08
VPG0319JE	VP30794	0 - 2"	186	9/28/94	NA-22	0.0000	0.0261	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	BI-207	0.0000	0.0118	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RA-226	2.1806	0.0000	0.68
VPG0319JE	VP30794	0 - 2"	186	9/28/94	AC-228	1.0450	0.0000	0.17
VPG0319JE	VP30794	0 - 2"	186	9/28/94	TH-228	0.0000	5.1800	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	AM-241	0.0000	0.1920	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	BE-7	0.0000	0.1930	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	K-40	36.1270	0.0000	1.01
VPG0319JE	VP30794	0 - 2"	186	9/28/94	MN-54	0.0000	0.0093	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CO-57	0.0000	0.0167	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CO-60	0.0000	0.0134	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	ZN-65	0.0000	0.0865	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	NB-95	0.0000	0.0268	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RH-101	0.0000	0.0291	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RH-102	0.0000	0.0198	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RH-102M	0.0000	0.0396	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	AG-110M	0.0000	0.0302	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CD-109	0.0000	1.2700	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0319JE	VP30794	0 - 2"	186	9/28/94	SB-125	0.0000	0.0524	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CS-134	0.0000	0.0377	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CS-137	0.0000	0.0284	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	BA-133	0.0000	0.0281	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CE-139	0.0000	0.0162	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CE-144	0.0000	0.1670	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	EU-152	0.0000	0.0653	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	EU-154	0.0000	0.0352	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	EU-155	0.0000	0.0807	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	PU-242	0.0000	20.3000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	AM-243	0.0000	15.6000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	HG-203	0.0000	0.0218	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	PB-210	0.0000	13.0000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	SR-85	0.0000	0.0134	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CS-136	0.0000	0.0240	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	NP-237	0.0000	182.0000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	U-237	0.0000	0.0603	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	NP-239	0.0000	0.0918	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	TH-234	0.0000	2.4800	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RA-224	1.0552	0.0000	0.63
VPG0319JE	VP30794	0 - 2"	186	9/28/94	SN-113	0.0000	0.0203	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	Y-88	0.0000	0.0114	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	CR-51	0.0000	0.0891	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	FE-59	0.0000	0.0380	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	ZR-95	0.0000	0.0210	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	MO-99	0.0000	0.0230	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	RU-103	0.0000	0.0090	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	SB-124	0.0000	0.0392	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	TE-132	0.0000	0.0146	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	XE-133	0.0000	42.5000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	XE-133M	0.0000	0.0751	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	BA-140	0.0000	0.1120	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	ND-147	0.0000	0.1320	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	PU-239	0.0000	90600.0000	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	PB-212	1.1737	0.0000	0.07
VPG0319JE	VP30794	0 - 2"	186	9/28/94	PB-214	0.6178	0.0000	0.07
VPG0319JE	VP30794	0 - 2"	186	9/28/94	U-235	0.0000	0.1650	
VPG0319JE	VP30794	0 - 2"	186	9/28/94	BI-214	0.5402	0.0000	0.06
VPG0320JE	VP30794	2 - 4"	186	9/27/94	NA-22	0.0000	0.0133	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	BI-207	0.0000	0.0201	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RA-226	2.0702	0.0000	0.69
VPG0320JE	VP30794	2 - 4"	186	9/27/94	AC-228	1.0659	0.0000	0.14
VPG0320JE	VP30794	2 - 4"	186	9/27/94	TH-228	0.0000	3.3900	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	AM-241	0.0000	0.1010	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	BE-7	0.0000	0.1740	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	K-40	36.1370	0.0000	0.79
VPG0320JE	VP30794	2 - 4"	186	9/27/94	MN-54	0.0000	0.0190	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CO-57	0.0000	0.0395	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CO-60	0.0000	0.0164	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	ZN-65	0.0000	0.0684	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	NB-95	0.0000	0.0265	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RH-101	0.0000	0.0459	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RH-102	0.0000	0.0209	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RH-102M	0.0000	0.0416	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0320JE	VP30794	2 - 4"	186	9/27/94	AG-110M	0.0000	0.0217	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CD-109	0.0000	0.9690	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	SB-125	0.0000	0.0485	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CS-134	0.0000	0.0354	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CS-137	0.0000	0.0200	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	BA-133	0.0000	0.0233	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CE-139	0.0000	0.0178	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CE-144	0.0000	0.2470	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	EU-152	0.0000	0.0638	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	EU-154	0.0000	0.0836	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	EU-155	0.0000	0.0705	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	PU-242	0.0000	1.0400	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	AM-243	0.0000	0.7280	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	HG-203	0.0000	0.0241	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	PB-210	1.6055	0.0000	0.76
VPG0320JE	VP30794	2 - 4"	186	9/27/94	SR-85	0.0000	0.0098	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CS-136	0.0000	0.0151	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	NP-237	0.0000	0.3450	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	U-237	0.0000	0.0792	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	NP-239	0.0000	0.0705	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	TH-234	1.3215	0.0000	0.73
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RA-224	0.0000	0.7050	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	SN-113	0.0000	0.0108	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	Y-88	0.0000	0.0162	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	CR-51	0.0000	0.2450	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	FE-59	0.0000	0.0217	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	ZR-95	0.0000	0.0323	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	MO-99	0.0000	0.0228	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	RU-103	0.0000	0.0111	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	SB-124	0.0000	0.0366	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	TE-132	0.0000	0.0133	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	XE-133	0.0000	0.2840	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	XE-133M	0.0000	0.1290	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	BA-140	0.1682	0.0000	0.13
VPG0320JE	VP30794	2 - 4"	186	9/27/94	ND-147	0.0000	0.1160	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	PU-239	0.0000	104000.0000	
VPG0320JE	VP30794	2 - 4"	186	9/27/94	PB-212	1.3001	0.0000	0.06
VPG0320JE	VP30794	2 - 4"	186	9/27/94	PB-214	0.7404	0.0000	0.06
VPG0320JE	VP30794	2 - 4"	186	9/27/94	U-235	0.1705	0.0000	0.16
VPG0320JE	VP30794	2 - 4"	186	9/27/94	BI-214	0.7024	0.0000	0.06
VPG0321JE	VP30794	4 - 6"	186	9/22/94	NA-22	0.0000	0.0214	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	BI-207	0.0000	0.0169	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RA-226	2.3954	0.0000	0.54
VPG0321JE	VP30794	4 - 6"	186	9/22/94	AC-228	1.0184	0.0000	0.12
VPG0321JE	VP30794	4 - 6"	186	9/22/94	TH-228	0.0000	6.6000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	AM-241	0.0000	0.4290	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	BE-7	0.0000	0.1510	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	K-40	28.8520	0.0000	0.59
VPG0321JE	VP30794	4 - 6"	186	9/22/94	MN-54	0.0307	0.0000	0.03
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CO-57	0.0000	0.0443	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CO-60	0.0000	0.0129	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	ZN-65	0.0000	0.0512	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	NB-95	0.0000	0.0214	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RH-101	0.0000	0.0491	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RH-102	0.0000	0.0330	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RH-102M	0.0000	0.0394	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	AG-110M	0.0000	0.0181	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CD-109	0.0000	1.7500	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	SB-125	0.0000	0.0517	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CS-134	0.0000	0.0290	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CS-137	0.0000	0.0175	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	BA-133	0.0000	0.0241	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CE-139	0.0000	0.0205	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CE-144	0.0000	0.2560	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	EU-152	0.0000	0.0496	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	EU-154	0.0000	0.0913	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	EU-155	0.0000	0.1150	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	PU-242	0.0000	15.9000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	AM-243	0.0000	12.1000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	HG-203	0.0000	0.0205	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	PB-210	0.0000	11.2000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	SR-85	0.0000	0.0139	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CS-136	0.0000	0.0124	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	NP-237	0.0000	137.0000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	U-237	0.0000	0.1270	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	NP-239	0.0000	0.1170	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	TH-234	3.3673	0.0000	1.56
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RA-224	1.7979	0.0000	0.70
VPG0321JE	VP30794	4 - 6"	186	9/22/94	SN-113	0.0000	0.0191	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	Y-88	0.0000	0.0082	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	CR-51	0.0000	0.2000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	FE-59	0.0000	0.0370	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	ZR-95	0.0000	0.0489	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	MO-99	0.0000	0.0239	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	RU-103	0.0000	0.0145	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	SB-124	0.0000	0.0303	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	TE-132	0.0000	0.0396	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	XE-133	0.0000	33.6000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	XE-133M	0.0000	0.3160	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	BA-140	0.0000	0.0763	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	ND-147	0.0000	0.1980	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	PU-239	0.0000	101000.0000	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	PB-212	1.3028	0.0000	0.06
VPG0321JE	VP30794	4 - 6"	186	9/22/94	PB-214	0.6583	0.0000	0.06
VPG0321JE	VP30794	4 - 6"	186	9/22/94	U-235	0.0000	0.1750	
VPG0321JE	VP30794	4 - 6"	186	9/22/94	BI-214	0.6756	0.0000	0.05
VPG0322JE	VP30894	0 - 2"	186	9/25/94	NA-22	0.0000	0.0225	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	BI-207	0.0000	0.0180	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RA-226	2.2084	0.0000	1.18
VPG0322JE	VP30894	0 - 2"	186	9/25/94	AC-228	1.6871	0.0000	0.16
VPG0322JE	VP30894	0 - 2"	186	9/25/94	TH-228	8.0562	0.0000	6.30
VPG0322JE	VP30894	0 - 2"	186	9/25/94	AM-241	2.8805	0.0000	0.53
VPG0322JE	VP30894	0 - 2"	186	9/25/94	BE-7	0.0000	0.2140	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	K-40	23.7970	0.0000	0.85
VPG0322JE	VP30894	0 - 2"	186	9/25/94	MN-54	0.0000	0.0273	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CO-57	0.0000	0.0183	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CO-60	0.0000	0.0258	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	ZN-65	0.0000	0.0819	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0322JE	VP30894	0 - 2"	186	9/25/94	NB-95	0.0000	0.0233	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RH-101	0.0000	0.0327	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RH-102	0.0000	0.0450	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RH-102M	0.0000	0.0550	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	AG-110M	0.0000	0.0339	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CD-109	2.1664	0.0000	1.56
VPG0322JE	VP30894	0 - 2"	186	9/25/94	SB-125	0.0000	0.0564	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CS-134	0.0000	0.0459	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CS-137	0.0757	0.0000	0.03
VPG0322JE	VP30894	0 - 2"	186	9/25/94	BA-133	0.0000	0.0327	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CE-139	0.0000	0.0202	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CE-144	0.0000	0.0779	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	EU-152	0.0000	0.0647	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	EU-154	0.0000	0.0387	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	EU-155	0.1199	0.0000	0.10
VPG0322JE	VP30894	0 - 2"	186	9/25/94	PU-242	0.0000	21.7000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	AM-243	0.0000	16.5000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	HG-203	0.0000	0.0153	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	PB-210	0.0000	13.7000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	SR-85	0.0000	0.0153	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CS-136	0.0000	0.0172	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	NP-237	0.0000	219.0000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	U-237	0.0000	0.1290	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	NP-239	0.0000	0.1090	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	TH-234	0.0000	2.3900	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RA-224	1.3301	0.0000	0.81
VPG0322JE	VP30894	0 - 2"	186	9/25/94	SN-113	0.0000	0.0160	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	Y-88	0.0000	0.0194	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	CR-51	0.0000	0.1730	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	FE-59	0.0000	0.0325	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	ZR-95	0.0000	0.0516	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	MO-99	0.0000	0.0223	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	RU-103	0.0000	0.0182	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	SB-124	0.0000	0.0473	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	TE-132	0.0000	0.0210	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	XE-133	0.0000	52.7000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	XE-133M	0.0000	0.1680	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	BA-140	0.0000	0.0704	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	ND-147	0.2463	0.0000	0.16
VPG0322JE	VP30894	0 - 2"	186	9/25/94	PU-239	0.0000	61500.0000	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	PB-212	1.9124	0.0000	0.08
VPG0322JE	VP30894	0 - 2"	186	9/25/94	PB-214	0.9576	0.0000	0.08
VPG0322JE	VP30894	0 - 2"	186	9/25/94	U-235	0.0000	0.1360	
VPG0322JE	VP30894	0 - 2"	186	9/25/94	BI-214	0.8235	0.0000	0.07
VPG0322JE	VP30894	0 - 2"	186	9/25/94	NA-22	0.0000	0.0297	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	BI-207	0.0000	0.0232	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RA-226	3.0019	0.0000	0.90
VPG0323JE	VP30894	2 - 4"	186	9/24/94	AC-228	0.0000	0.0697	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	TH-228	0.0000	3.3600	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	AM-241	0.0000	0.0503	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	BE-7	0.0000	0.2060	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	K-40	0.0000	0.2910	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	MN-54	0.0000	0.0101	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CO-57	0.0000	0.0237	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CO-60	0.0000	0.0257	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	ZN-65	0.0000	0.0421	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	NB-95	0.0000	0.0179	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RH-101	0.0000	0.0292	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RH-102	0.0000	0.0313	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RH-102M	0.0000	0.0535	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	AG-110M	0.0000	0.0227	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CD-109	0.0000	0.9070	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	SB-125	0.0000	0.0743	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CS-134	0.0000	0.0447	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CS-137	0.0000	0.0238	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	BA-133	0.0000	0.0287	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CE-139	0.0000	0.0234	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CE-144	0.0000	0.1940	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	EU-152	0.0000	0.0617	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	EU-154	0.0000	0.0453	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	EU-155	0.0956	0.0000	0.08
VPG0323JE	VP30894	2 - 4"	186	9/24/94	PU-242	0.0000	1.2600	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	AM-243	0.0000	0.3740	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	HG-203	0.0000	0.0253	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	PB-210	0.0000	1.0000	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	SR-85	0.0000	0.0150	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CS-136	0.0000	0.0166	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	NP-237	0.0000	0.9980	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	U-237	0.0000	0.0959	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	NP-239	0.0000	0.0849	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	TH-234	0.0000	0.6000	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RA-224	0.9552	0.0000	0.91
VPG0323JE	VP30894	2 - 4"	186	9/24/94	SN-113	0.0000	0.0239	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	Y-88	0.0000	0.0147	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	CR-51	0.0000	0.1880	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	FE-59	0.0000	0.0597	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	ZR-95	0.0000	0.0386	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	MO-99	0.0000	0.0250	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	RU-103	0.0000	0.0101	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	SB-124	0.0000	0.0124	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	TE-132	0.0000	0.0218	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	XE-133	0.0000	0.1880	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	XE-133M	0.0000	0.1400	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	BA-140	0.0000	0.0874	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	ND-147	0.0000	0.1010	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	PU-239	0.0000	89700.0000	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	PB-212	1.6824	0.0000	0.08
VPG0323JE	VP30894	2 - 4"	186	9/24/94	PB-214	0.9024	0.0000	0.08
VPG0323JE	VP30894	2 - 4"	186	9/24/94	U-235	0.0000	0.1740	
VPG0323JE	VP30894	2 - 4"	186	9/24/94	BI-214	0.3940	0.0000	0.08
VPG0324JE	VP30894	4 - 6"	186	9/22/94	NA-22	0.0000	0.0177	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	BI-207	0.0000	0.0227	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RA-226	3.2055	0.0000	0.71
VPG0324JE	VP30894	4 - 6"	186	9/22/94	AC-228	2.7439	0.0000	0.15
VPG0324JE	VP30894	4 - 6"	186	9/22/94	TH-228	7.9519	0.0000	3.95
VPG0324JE	VP30894	4 - 6"	186	9/22/94	AM-241	0.7095	0.0000	0.14
VPG0324JE	VP30894	4 - 6"	186	9/22/94	BE-7	0.0000	0.2070	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	K-40	27.5800	0.0000	0.81

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0324JE	VP30894	4 - 6"	186	9/22/94	MN-54	0.0428	0.0000	0.03
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CO-57	0.0000	0.0107	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CO-60	0.0000	0.0164	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	ZN-65	0.0000	0.0803	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	NB-95	0.0000	0.0240	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RH-101	0.0000	0.0344	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RH-102	0.0000	0.0326	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RH-102M	0.0000	0.0562	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	AG-110M	0.0000	0.0176	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CD-109	0.0000	1.0900	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	SB-125	0.0000	0.0720	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CS-134	0.0000	0.0466	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CS-137	0.0869	0.0000	0.03
VPG0324JE	VP30894	4 - 6"	186	9/22/94	BA-133	0.0000	0.0270	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CE-139	0.0000	0.0191	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CE-144	0.0000	0.1570	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	EU-152	0.0000	0.0707	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	EU-154	0.0000	0.0458	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	EU-155	0.1702	0.0000	0.09
VPG0324JE	VP30894	4 - 6"	186	9/22/94	PU-242	0.0000	1.2900	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	AM-243	0.0000	0.8980	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	HG-203	0.0000	0.0126	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	PB-210	2.1697	0.0000	0.95
VPG0324JE	VP30894	4 - 6"	186	9/22/94	SR-85	0.0000	0.0183	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CS-136	0.0000	0.0130	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	NP-237	0.0000	0.9070	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	U-237	0.0000	0.0485	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	NP-239	0.0000	0.0952	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	TH-234	2.1594	0.0000	0.79
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RA-224	3.4330	0.0000	0.83
VPG0324JE	VP30894	4 - 6"	186	9/22/94	SN-113	0.0000	0.0182	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	Y-88	0.0000	0.0165	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	CR-51	0.0000	0.1510	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	FE-59	0.0000	0.0579	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	ZR-95	0.0000	0.0430	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	MO-99	0.0000	0.0279	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	RU-103	0.0000	0.0275	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	SB-124	0.0000	0.0481	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	TE-132	0.0000	0.0173	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	XE-133	0.0000	0.3050	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	XE-133M	0.0000	0.1860	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	BA-140	0.0000	0.1010	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	ND-147	0.0000	0.1200	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	PU-239	0.0000	53700.0000	
VPG0324JE	VP30894	4 - 6"	186	9/22/94	PB-212	3.3375	0.0000	0.09
VPG0324JE	VP30894	4 - 6"	186	9/22/94	PB-214	1.2235	0.0000	0.10
VPG0324JE	VP30894	4 - 6"	186	9/22/94	U-235	0.2544	0.0000	0.19
VPG0324JE	VP30894	4 - 6"	186	9/22/94	BI-214	1.2259	0.0000	0.07
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	NA-22	0.0000	0.0276	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	BI-207	0.0537	0.0000	0.04
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RA-226	2.5482	0.0000	0.62
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	AC-228	1.9071	0.0000	0.15
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	TH-228	5.6733	0.0000	3.75
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	AM-241	0.0000	0.1130	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	BE-7	0.0000	0.1720	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	K-40	28.2880	0.0000	0.72
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	MN-54	0.0000	0.0164	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CO-57	0.0000	0.0424	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CO-60	0.0000	0.0155	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	ZN-65	0.0000	0.0654	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	NB-95	0.0000	0.0184	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RH-101	0.0000	0.0492	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RH-102	0.0000	0.0415	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RH-102M	0.0000	0.0442	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	AG-110M	0.0000	0.0114	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CD-109	0.0000	1.0700	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	SB-125	0.0000	0.0508	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CS-134	0.0000	0.0367	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CS-137	0.0579	0.0000	0.02
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	BA-133	0.0000	0.0246	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CE-139	0.0000	0.0213	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CE-144	0.0000	0.2610	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	EU-152	0.0000	0.0642	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	EU-154	0.0000	0.0897	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	EU-155	0.1376	0.0000	0.07
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	PU-242	0.0000	1.1300	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	AM-243	0.0000	0.7640	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	HG-203	0.0000	0.0147	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	PB-210	2.6624	0.0000	0.83
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	SR-85	0.0000	0.0168	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CS-136	0.0000	0.0129	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	NP-237	0.0000	0.8670	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	U-237	0.0000	0.0865	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	NP-239	0.0000	0.0770	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	TH-234	1.8400	0.0000	0.82
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RA-224	1.3882	0.0000	0.84
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	SN-113	0.0000	0.0199	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	Y-88	0.0000	0.0086	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	CR-51	0.0000	0.2620	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	FE-59	0.0000	0.0278	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	ZR-95	0.0000	0.0440	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	MO-99	0.0000	0.0232	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	RU-103	0.0000	0.0170	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	SB-124	0.0000	0.0380	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	TE-132	0.0000	0.0177	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	XE-133	0.0000	0.2880	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	XE-133M	0.0000	0.1180	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	BA-140	0.0000	0.0839	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	ND-147	0.0000	0.1280	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	PU-239	0.0000	69300.0000	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	PB-212	2.4939	0.0000	0.07
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	PB-214	1.0528	0.0000	0.06
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	U-235	0.0000	0.1590	
VPG0325JE	VP30994	0 - 2"	117.2	9/26/94	BI-214	0.9663	0.0000	0.06
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	NA-22	0.0000	0.0216	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	BI-207	0.0000	0.0220	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RA-226	3.2901	0.0000	0.83
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	AC-228	1.6476	0.0000	0.17

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	TH-228	0.0000	7.2300	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	AM-241	0.0000	0.3720	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	BE-7	0.0000	0.2010	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	K-40	26.2640	0.0000	1.07
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	MN-54	0.0692	0.0000	0.04
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CO-57	0.0000	0.0156	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CO-60	0.0000	0.0195	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	ZN-65	0.0000	0.0956	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	NB-95	0.0000	0.0139	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RH-101	0.0000	0.0247	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RH-102	0.0000	0.0427	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RH-102M	0.0000	0.0551	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	AG-110M	0.0000	0.0108	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CD-109	0.0000	1.8300	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	SB-125	0.0000	0.0510	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CS-134	0.0000	0.0482	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CS-137	0.4329	0.0000	0.04
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	BA-133	0.0000	0.0288	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CE-139	0.0000	0.0210	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CE-144	0.0000	0.0817	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	EU-152	0.0000	0.0814	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	EU-154	0.0000	0.0407	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	EU-155	0.1174	0.0000	0.10
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	PU-242	0.0000	26.3000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	AM-243	0.0000	20.1000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	HG-203	0.0000	0.0139	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	PB-210	0.0000	16.9000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	SR-85	0.0000	0.0169	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CS-136	0.0000	0.0231	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	NP-237	0.0000	223.0000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	U-237	0.0000	0.1230	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	NP-239	0.0000	0.1120	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	TH-234	0.0000	2.3700	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RA-224	2.2886	0.0000	0.73
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	SN-113	0.0000	0.0250	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	Y-88	0.0000	0.0163	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	CR-51	0.0000	0.1590	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	FE-59	0.0000	0.0641	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	ZR-95	0.0000	0.0470	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	MO-99	0.0000	0.0223	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	RU-103	0.0000	0.0265	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	SB-124	0.0000	0.0499	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	TE-132	0.0000	0.0232	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	XE-133	0.0000	53.6000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	XE-133M	0.0000	0.0948	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	BA-140	0.0000	0.1170	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	ND-147	0.0000	0.1960	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	PU-239	0.0000	58100.0000	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	PB-212	2.0149	0.0000	0.08
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	PB-214	0.8965	0.0000	0.08
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	U-235	0.0000	0.1590	
VPG0326JE	VP30994	2 - 4"	117.2	9/21/94	BI-214	0.8779	0.0000	0.08
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	NA-22	0.0000	0.0244	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	BI-207	0.0000	0.0261	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RA-226	3.0562	0.0000	0.71
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	AC-228	1.3398	0.0000	0.14
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	TH-228	0.0000	5.8200	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	AM-241	0.0000	0.3420	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	BE-7	0.0000	0.1780	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	K-40	21.4060	0.0000	0.87
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	MN-54	0.0000	0.0219	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CO-57	0.0000	0.0156	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CO-60	0.0000	0.0305	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	ZN-65	0.0000	0.0875	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	NB-95	0.0000	0.0237	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RH-101	0.0000	0.0314	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RH-102	0.0000	0.0373	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RH-102M	0.0000	0.0371	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	AG-110M	0.0000	0.0332	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CD-109	0.0000	1.4400	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	SB-125	0.0000	0.0345	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CS-134	0.0000	0.0426	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CS-137	0.1115	0.0000	0.03
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	BA-133	0.0000	0.0310	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CE-139	0.0000	0.0220	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CE-144	0.0000	0.1520	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	EU-152	0.0000	0.0633	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	EU-154	0.0000	0.0406	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	EU-155	0.1135	0.0000	0.08
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	PU-242	0.0000	22.2000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	AM-243	0.0000	17.0000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	HG-203	0.0000	0.0136	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	PB-210	0.0000	14.4000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	SR-85	0.0000	0.0092	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CS-136	0.0000	0.0179	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	NP-237	0.0000	198.0000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	U-237	0.0000	0.1010	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	NP-239	0.0000	0.0979	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	TH-234	0.0000	2.6700	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RA-224	2.0535	0.0000	0.62
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	SN-113	0.0000	0.0200	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	Y-88	0.0000	0.0168	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	CR-51	0.0000	0.1790	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	FE-59	0.0000	0.0445	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	ZR-95	0.0000	0.0455	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	MO-99	0.0000	0.0202	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	RU-103	0.0000	0.0235	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	SB-124	0.0000	0.0444	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	TE-132	0.0000	0.0138	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	XE-133	0.0000	46.1000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	XE-133M	0.0000	0.1620	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	BA-140	0.0000	0.0798	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	ND-147	0.0000	0.1480	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	PU-239	0.0000	114000.0000	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	PB-212	1.6486	0.0000	0.08
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	PB-214	0.7971	0.0000	0.08
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	U-235	0.0000	0.1380	
VPG0327JE	VP30994	4 - 6"	117.2	9/29/94	BI-214	0.6785	0.0000	0.06

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	NA-22	0.0000	0.0113	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	BI-207	0.0000	0.0239	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RA-226	3.2218	0.0000	0.66
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	AC-228	1.6023	0.0000	0.13
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	TH-228	0.0000	7.9000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	AM-241	0.0000	0.3380	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	BE-7	0.0000	0.2000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	K-40	25.5160	0.0000	0.67
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	MN-54	0.0000	0.0182	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CO-57	0.0000	0.0529	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CO-60	0.0000	0.0151	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	ZN-65	0.0000	0.0658	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	NB-95	0.0000	0.0222	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RH-101	0.0000	0.0602	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RH-102	0.0000	0.0397	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RH-102M	0.0000	0.0525	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	AG-110M	0.0000	0.0326	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CD-109	0.0000	2.0600	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	SB-125	0.0000	0.0533	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CS-134	0.0000	0.0399	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CS-137	0.2117	0.0000	0.03
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	BA-133	0.0000	0.0314	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CE-139	0.0000	0.0226	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CE-144	0.0000	0.3100	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	EU-152	0.0000	0.0679	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	EU-154	0.0000	0.1110	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	EU-155	0.0000	0.1120	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	PU-242	0.0000	22.1000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	AM-243	0.0000	16.8000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	HG-203	0.0000	0.0219	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	PB-210	0.0000	15.3000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	SR-85	0.0000	0.0111	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CS-136	0.0000	0.0166	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	NP-237	0.0000	233.0000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	U-237	0.0000	0.1310	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	NP-239	0.0000	0.1110	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	TH-234	0.0000	3.6200	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RA-224	1.8225	0.0000	0.87
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	SN-113	0.0000	0.0239	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	Y-88	0.0000	0.0124	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	CR-51	0.0000	0.2660	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	FE-59	0.0000	0.0350	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	ZR-95	0.0000	0.0309	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	MO-99	0.0312	0.0000	0.03
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	RU-103	0.0000	0.0234	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	SB-124	0.0000	0.0183	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	TE-132	0.0000	0.0530	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	XE-133	0.0000	35.5000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	XE-133M	0.0000	0.4230	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	BA-140	0.0000	0.0981	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	ND-147	0.0000	0.2320	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	PU-239	0.0000	115000.0000	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	PB-212	1.9527	0.0000	0.08
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	PB-214	0.8432	0.0000	0.08

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	U-235	0.0000	0.1960	
VPG0328JE	VP31094	0 - 2"	117.2	9/29/94	BI-214	0.8255	0.0000	0.07
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	NA-22	0.0000	0.0139	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	BI-207	0.0000	0.0289	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RA-226	3.6164	0.0000	0.84
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	AC-228	1.8669	0.0000	0.14
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	TH-228	7.8130	0.0000	7.64
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	AM-241	0.0000	0.4950	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	BE-7	0.0000	0.2180	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	K-40	25.5210	0.0000	1.05
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	MN-54	0.0000	0.0249	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CO-57	0.0000	0.0262	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CO-60	0.0000	0.0317	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	ZN-65	0.0000	0.1080	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	NB-95	0.0000	0.0250	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RH-101	0.0000	0.0253	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RH-102	0.0000	0.0374	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RH-102M	0.0000	0.0296	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	AG-110M	0.0000	0.0493	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CD-109	0.0000	1.9200	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	SB-125	0.0000	0.0833	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CS-134	0.0000	0.0562	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CS-137	0.3639	0.0000	0.04
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	BA-133	0.0000	0.0371	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CE-139	0.0000	0.0224	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CE-144	0.0000	0.1200	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	EU-152	0.0000	0.0787	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	EU-154	0.0000	0.0482	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	EU-155	0.0000	0.1260	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	PU-242	0.0000	29.3000	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	AM-243	0.0000	22.4000	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	HG-203	0.0000	0.0272	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	PB-210	0.0000	19.0000	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	SR-85	0.0000	0.0210	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CS-136	0.0000	0.0213	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	NP-237	0.0000	263.0000	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	U-237	0.0000	0.0784	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	NP-239	0.0000	0.1340	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	TH-234	0.0000	3.0500	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RA-224	1.7476	0.0000	0.93
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	SN-113	0.0000	0.0259	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	Y-88	0.0000	0.0375	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	CR-51	0.0000	0.1450	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	FE-59	0.0000	0.0470	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	ZR-95	0.0000	0.0672	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	MO-99	0.0000	0.0145	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	RU-103	0.0000	0.0274	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	SB-124	0.0000	0.0582	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	TE-132	0.0000	0.0203	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	XE-133	0.0000	63.1000	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	XE-133M	0.0000	0.1280	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	BA-140	0.0000	0.1330	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	ND-147	0.0000	0.1990	
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	PU-239	0.0000	111000.0000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	PB-212	2.2885	0.0000	0.10
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	PB-214	1.0400	0.0000	0.09
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	U-235	0.1775	0.0000	0.18
VPG0329JE	VP31094	2 - 4"	117.2	9/22/94	BI-214	1.0031	0.0000	0.09
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	NA-22	0.0000	0.0312	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	BI-207	0.0000	0.0210	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RA-226	3.0674	0.0000	0.99
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	AC-228	1.8070	0.0000	0.19
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	TH-228	7.9093	0.0000	6.58
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	AM-241	0.0000	0.3450	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	BE-7	0.0000	0.2520	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	K-40	22.9260	0.0000	1.02
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	MN-54	0.0000	0.0132	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CO-57	0.0000	0.0128	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CO-60	0.0000	0.0254	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	ZN-65	0.0000	0.0980	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	NB-95	0.0000	0.0307	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RH-101	0.0000	0.0342	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RH-102	0.0000	0.0386	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RH-102M	0.0000	0.0653	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	AG-110M	0.0000	0.0439	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CD-109	0.0000	1.6400	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	SB-125	0.0000	0.0822	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CS-134	0.0000	0.0501	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CS-137	0.2313	0.0000	0.04
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	BA-133	0.0000	0.0312	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CE-139	0.0000	0.0204	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CE-144	0.0000	0.1600	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	EU-152	0.0000	0.0709	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	EU-154	0.0000	0.0474	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	EU-155	0.0000	0.1050	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	PU-242	0.0000	23.2000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	AM-243	0.0000	18.4000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	HG-203	0.0000	0.0246	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	PB-210	0.0000	14.3000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	SR-85	0.0000	0.0227	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CS-136	0.0000	0.0193	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	NP-237	0.0000	242.0000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	U-237	0.0000	0.1350	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	NP-239	0.0000	0.1160	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	TH-234	0.0000	3.1000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RA-224	1.6352	0.0000	0.87
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	SN-113	0.0000	0.0246	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	Y-88	0.0000	0.0105	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	CR-51	0.0000	0.1760	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	FE-59	0.0000	0.0462	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	ZR-95	0.0000	0.0459	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	MO-99	0.0000	0.0197	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	RU-103	0.0000	0.0213	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	SB-124	0.0000	0.0516	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	TE-132	0.0000	0.0178	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	XE-133	0.0000	39.3000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	XE-133M	0.0000	0.2080	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	BA-140	0.0000	0.0946	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	ND-147	0.2351	0.0000	0.16
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	PU-239	0.0000	85300.0000	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	PB-212	2.1400	0.0000	0.09
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	PB-214	1.0356	0.0000	0.08
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	U-235	0.0000	0.1840	
VPG0330JE	VP31094	4 - 6"	117.2	9/27/94	BI-214	0.9219	0.0000	0.08
VPG0331JE	VP31194	0 - 2"	148	9/26/94	NA-22	0.0000	0.0290	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	BI-207	0.0390	0.0000	0.04
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RA-226	3.0201	0.0000	1.15
VPG0331JE	VP31194	0 - 2"	148	9/26/94	AC-228	1.6854	0.0000	0.19
VPG0331JE	VP31194	0 - 2"	148	9/26/94	TH-228	0.0000	6.5700	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	AM-241	0.0000	0.3740	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	BE-7	0.2228	0.0000	0.19
VPG0331JE	VP31194	0 - 2"	148	9/26/94	K-40	26.6560	0.0000	1.12
VPG0331JE	VP31194	0 - 2"	148	9/26/94	MN-54	0.0000	0.0269	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CO-57	0.0000	0.0239	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CO-60	0.0000	0.0261	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	ZN-65	0.0000	0.0560	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	NB-95	0.0000	0.0304	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RH-101	0.0000	0.0348	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RH-102	0.0000	0.0373	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RH-102M	0.0000	0.0568	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	AG-110M	0.0000	0.0412	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CD-109	0.0000	1.6200	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	SB-125	0.0000	0.0524	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CS-134	0.0000	0.0491	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CS-137	0.3182	0.0000	0.03
VPG0331JE	VP31194	0 - 2"	148	9/26/94	BA-133	0.0000	0.0277	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CE-139	0.0000	0.0234	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CE-144	0.0000	0.2010	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	EU-152	0.0000	0.0770	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	EU-154	0.0000	0.0448	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	EU-155	0.1298	0.0000	0.11
VPG0331JE	VP31194	0 - 2"	148	9/26/94	PU-242	0.0000	24.1000	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	AM-243	0.0000	18.4000	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	HG-203	0.0000	0.0256	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	PB-210	0.0000	15.2000	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	SR-85	0.0000	0.0195	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CS-136	0.0806	0.0000	0.04
VPG0331JE	VP31194	0 - 2"	148	9/26/94	NP-237	0.0000	232.0000	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	U-237	0.0000	0.1370	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	NP-239	0.0000	0.1180	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	TH-234	5.1473	0.0000	1.30
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RA-224	1.4511	0.0000	0.84
VPG0331JE	VP31194	0 - 2"	148	9/26/94	SN-113	0.0000	0.0305	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	Y-88	0.0000	0.0140	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	CR-51	0.0000	0.1860	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	FE-59	0.0000	0.0626	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	ZR-95	0.0000	0.0516	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	MO-99	0.0000	0.0252	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	RU-103	0.0000	0.0168	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	SB-124	0.0000	0.0504	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	TE-132	0.0000	0.0190	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	XE-133	0.0000	54.8000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0331JE	VP31194	0 - 2"	148	9/26/94	XE-133M	0.0000	0.1090	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	BA-140	0.0000	0.1190	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	ND-147	0.0000	0.1680	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	PU-239	0.0000	57000.0000	
VPG0331JE	VP31194	0 - 2"	148	9/26/94	PB-212	2.0734	0.0000	0.08
VPG0331JE	VP31194	0 - 2"	148	9/26/94	PB-214	1.2630	0.0000	0.08
VPG0331JE	VP31194	0 - 2"	148	9/26/94	U-235	0.1683	0.0000	0.16
VPG0331JE	VP31194	0 - 2"	148	9/26/94	BI-214	1.0280	0.0000	0.07
VPG0332JE	VP31194	2 - 4"	148	9/26/94	NA-22	0.0000	0.0234	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	BI-207	0.0000	0.0217	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RA-226	4.5041	0.0000	0.69
VPG0332JE	VP31194	2 - 4"	148	9/26/94	AC-228	1.9110	0.0000	0.17
VPG0332JE	VP31194	2 - 4"	148	9/26/94	TH-228	9.6205	0.0000	7.90
VPG0332JE	VP31194	2 - 4"	148	9/26/94	AM-241	0.0000	0.2740	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	BE-7	0.0000	0.1930	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	K-40	30.4700	0.0000	0.75
VPG0332JE	VP31194	2 - 4"	148	9/26/94	MN-54	0.0000	0.0228	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CO-57	0.0000	0.0552	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CO-60	0.0000	0.0168	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	ZN-65	0.0000	0.0707	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	NB-95	0.0000	0.0233	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RH-101	0.0000	0.0619	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RH-102	0.0000	0.0402	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RH-102M	0.0000	0.0539	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	AG-110M	0.0000	0.0371	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CD-109	2.1164	0.0000	2.11
VPG0332JE	VP31194	2 - 4"	148	9/26/94	SB-125	0.0000	0.0532	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CS-134	0.0000	0.0429	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CS-137	0.3137	0.0000	0.03
VPG0332JE	VP31194	2 - 4"	148	9/26/94	BA-133	0.0000	0.0389	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CE-139	0.0000	0.0275	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CE-144	0.0000	0.3200	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	EU-152	0.0000	0.0671	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	EU-154	0.0000	0.1150	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	EU-155	0.0000	0.1380	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	PU-242	0.0000	11.3000	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	AM-243	0.0000	8.2800	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	HG-203	0.0000	0.0303	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	PB-210	0.0000	7.6900	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	SR-85	0.0000	0.0174	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CS-136	0.0000	0.0143	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	NP-237	0.0000	63.0000	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	U-237	0.0000	0.1530	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	NP-239	0.0000	0.1390	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	TH-234	6.0768	0.0000	1.51
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RA-224	2.1825	0.0000	0.96
VPG0332JE	VP31194	2 - 4"	148	9/26/94	SN-113	0.0000	0.0260	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	Y-88	0.0000	0.0153	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	CR-51	0.0000	0.3220	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	FE-59	0.0000	0.0515	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	ZR-95	0.0000	0.0454	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	MO-99	0.0337	0.0000	0.03
VPG0332JE	VP31194	2 - 4"	148	9/26/94	RU-103	0.0000	0.0172	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	SB-124	0.0000	0.0443	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0332JE	VP31194	2 - 4"	148	9/26/94	TE-132	0.0000	0.0547	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	XE-133	0.0000	17.1000	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	XE-133M	0.0000	0.4420	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	BA-140	0.0000	0.0984	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	ND-147	0.0000	0.2430	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	PU-239	0.0000	124000.0000	
VPG0332JE	VP31194	2 - 4"	148	9/26/94	PB-212	2.4211	0.0000	0.08
VPG0332JE	VP31194	2 - 4"	148	9/26/94	PB-214	1.4368	0.0000	0.09
VPG0332JE	VP31194	2 - 4"	148	9/26/94	U-235	0.2225	0.0000	0.21
VPG0332JE	VP31194	2 - 4"	148	9/26/94	BI-214	1.4095	0.0000	0.07
VPG0333JE	VP31194	4 - 6"	148	9/27/94	NA-22	0.0000	0.0127	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	BI-207	0.0000	0.0173	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RA-226	4.1392	0.0000	0.61
VPG0333JE	VP31194	4 - 6"	148	9/27/94	AC-228	1.6746	0.0000	0.13
VPG0333JE	VP31194	4 - 6"	148	9/27/94	TH-228	8.9217	0.0000	6.82
VPG0333JE	VP31194	4 - 6"	148	9/27/94	AM-241	0.0000	0.4180	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	BE-7	0.0000	0.1970	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	K-40	23.1440	0.0000	0.61
VPG0333JE	VP31194	4 - 6"	148	9/27/94	MN-54	0.0000	0.0179	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CO-57	0.0000	0.0467	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CO-60	0.0000	0.0228	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	ZN-65	0.0000	0.0663	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	NB-95	0.0000	0.0270	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RH-101	0.0000	0.0542	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RH-102	0.0000	0.0426	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RH-102M	0.0000	0.0521	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	AG-110M	0.0000	0.0319	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CD-109	2.4879	0.0000	1.83
VPG0333JE	VP31194	4 - 6"	148	9/27/94	SB-125	0.0000	0.0431	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CS-134	0.0000	0.0368	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CS-137	0.2312	0.0000	0.03
VPG0333JE	VP31194	4 - 6"	148	9/27/94	BA-133	0.0000	0.0288	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CE-139	0.0000	0.0223	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CE-144	0.0000	0.2790	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	EU-152	0.0000	0.0584	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	EU-154	0.0000	0.0981	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	EU-155	0.0000	0.1150	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	PU-242	0.0000	10.1000	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	AM-243	0.0000	7.3800	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	HG-203	0.0000	0.0250	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	PB-210	0.0000	6.8700	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	SR-85	0.0000	0.0144	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CS-136	0.0000	0.0195	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	NP-237	0.0000	33.0000	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	U-237	0.0000	0.1300	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	NP-239	0.0000	0.1180	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	TH-234	5.9437	0.0000	1.58
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RA-224	1.2107	0.0000	0.85
VPG0333JE	VP31194	4 - 6"	148	9/27/94	SN-113	0.0000	0.0177	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	Y-88	0.0000	0.0111	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	CR-51	0.0000	0.2840	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	FE-59	0.0000	0.0344	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	ZR-95	0.0000	0.0433	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	MO-99	0.0000	0.0255	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0333JE	VP31194	4 - 6"	148	9/27/94	RU-103	0.0000	0.0081	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	SB-124	0.0000	0.0378	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	TE-132	0.0000	0.0473	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	XE-133	0.0000	14.2000	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	XE-133M	0.0000	0.3920	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	BA-140	0.0000	0.0736	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	ND-147	0.0000	0.2100	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	PU-239	0.0000	75600.0000	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	PB-212	2.1913	0.0000	0.07
VPG0333JE	VP31194	4 - 6"	148	9/27/94	PB-214	1.1773	0.0000	0.07
VPG0333JE	VP31194	4 - 6"	148	9/27/94	U-235	0.0000	0.1800	
VPG0333JE	VP31194	4 - 6"	148	9/27/94	BI-214	1.1493	0.0000	0.06
VPG0334JE	VP31294	0 - 2"	148	9/26/94	NA-22	0.0000	0.0140	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	BI-207	0.0000	0.0163	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RA-226	2.7558	0.0000	0.51
VPG0334JE	VP31294	0 - 2"	148	9/26/94	AC-228	1.7415	0.0000	0.14
VPG0334JE	VP31294	0 - 2"	148	9/26/94	TH-228	0.0000	7.0600	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	AM-241	0.0000	0.1540	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	BE-7	0.0000	0.1710	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	K-40	23.5700	0.0000	0.56
VPG0334JE	VP31294	0 - 2"	148	9/26/94	MN-54	0.0000	0.0168	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CO-57	0.0000	0.0471	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CO-60	0.0000	0.0069	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	ZN-65	0.0000	0.0548	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	NB-95	0.0000	0.0154	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RH-101	0.0000	0.0541	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RH-102	0.0000	0.0342	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RH-102M	0.0000	0.0399	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	AG-110M	0.0000	0.0109	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CD-109	2.1959	0.0000	1.83
VPG0334JE	VP31294	0 - 2"	148	9/26/94	SB-125	0.0000	0.0241	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CS-134	0.0000	0.0341	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CS-137	0.0708	0.0000	0.02
VPG0334JE	VP31294	0 - 2"	148	9/26/94	BA-133	0.0000	0.0272	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CE-139	0.0000	0.0227	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CE-144	0.0000	0.2800	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	EU-152	0.0000	0.0537	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	EU-154	0.0000	0.0988	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	EU-155	0.0000	0.1000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	PU-242	0.0000	17.5000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	AM-243	0.0000	13.4000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	HG-203	0.0000	0.0228	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	PB-210	0.0000	12.2000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	SR-85	0.0000	0.0138	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CS-136	0.0000	0.0132	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	NP-237	0.0000	224.0000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	U-237	0.0000	0.1210	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	NP-239	0.0000	0.1050	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	TH-234	0.0000	3.0200	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RA-224	2.5235	0.0000	0.84
VPG0334JE	VP31294	0 - 2"	148	9/26/94	SN-113	0.0000	0.0132	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	Y-88	0.0000	0.0111	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	CR-51	0.0000	0.2310	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	FE-59	0.0000	0.0201	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0334JE	VP31294	0 - 2"	148	9/26/94	ZR-95	0.0000	0.0324	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	MO-99	0.0000	0.0257	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	RU-103	0.0000	0.0154	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	SB-124	0.0000	0.0354	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	TE-132	0.0000	0.0465	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	XE-133	0.0000	25.8000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	XE-133M	0.0000	0.3820	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	BA-140	0.0000	0.0796	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	ND-147	0.2558	0.0000	0.21
VPG0334JE	VP31294	0 - 2"	148	9/26/94	PU-239	0.0000	64800.0000	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	PB-212	2.1622	0.0000	0.07
VPG0334JE	VP31294	0 - 2"	148	9/26/94	PB-214	1.0520	0.0000	0.07
VPG0334JE	VP31294	0 - 2"	148	9/26/94	U-235	0.0000	0.1860	
VPG0334JE	VP31294	0 - 2"	148	9/26/94	BI-214	0.9999	0.0000	0.05
VPG0335JE	VP31294	2 - 4"	148	9/27/94	NA-22	0.0000	0.0113	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	BI-207	0.0000	0.0130	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RA-226	2.9105	0.0000	0.59
VPG0335JE	VP31294	2 - 4"	148	9/27/94	AC-228	2.1236	0.0000	0.12
VPG0335JE	VP31294	2 - 4"	148	9/27/94	TH-228	0.0000	6.8200	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	AM-241	0.0000	0.4470	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	BE-7	0.0000	0.1520	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	K-40	22.5250	0.0000	0.53
VPG0335JE	VP31294	2 - 4"	148	9/27/94	MN-54	0.0422	0.0000	0.02
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CO-57	0.0000	0.0462	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CO-60	0.0000	0.0143	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	ZN-65	0.0574	0.0000	0.05
VPG0335JE	VP31294	2 - 4"	148	9/27/94	NB-95	0.0000	0.0147	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RH-101	0.0000	0.0509	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RH-102	0.0000	0.0189	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RH-102M	0.0000	0.0354	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	AG-110M	0.0000	0.0210	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CD-109	4.1615	0.0000	1.76
VPG0335JE	VP31294	2 - 4"	148	9/27/94	SB-125	0.0000	0.0383	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CS-134	0.0000	0.0311	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CS-137	0.0691	0.0000	0.02
VPG0335JE	VP31294	2 - 4"	148	9/27/94	BA-133	0.0000	0.0231	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CE-139	0.0000	0.0231	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CE-144	0.0000	0.2600	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	EU-152	0.0000	0.0503	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	EU-154	0.0000	0.0951	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	EU-155	0.1400	0.0000	0.10
VPG0335JE	VP31294	2 - 4"	148	9/27/94	PU-242	0.0000	21.5000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	AM-243	0.0000	16.3000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	HG-203	0.0000	0.0228	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	PB-210	0.0000	14.7000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	SR-85	0.0000	0.0110	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CS-136	0.0000	0.0117	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	NP-237	0.0000	185.0000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	U-237	0.0000	0.1180	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	NP-239	0.0000	0.1050	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	TH-234	0.0000	2.8400	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RA-224	2.7115	0.0000	0.82
VPG0335JE	VP31294	2 - 4"	148	9/27/94	SN-113	0.0000	0.0151	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	Y-88	0.0000	0.0101	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0335JE	VP31294	2 - 4"	148	9/27/94	CR-51	0.0000	0.2250	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	FE-59	0.0000	0.0255	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	ZR-95	0.0000	0.0324	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	MO-99	0.0241	0.0000	0.02
VPG0335JE	VP31294	2 - 4"	148	9/27/94	RU-103	0.0000	0.0132	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	SB-124	0.0000	0.0322	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	TE-132	0.0000	0.0462	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	XE-133	0.0000	24.0000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	XE-133M	0.0000	0.3720	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	BA-140	0.0000	0.0655	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	ND-147	0.2528	0.0000	0.20
VPG0335JE	VP31294	2 - 4"	148	9/27/94	PU-239	0.0000	78500.0000	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	PB-212	2.5678	0.0000	0.07
VPG0335JE	VP31294	2 - 4"	148	9/27/94	PB-214	1.0581	0.0000	0.06
VPG0335JE	VP31294	2 - 4"	148	9/27/94	U-235	0.0000	0.1570	
VPG0335JE	VP31294	2 - 4"	148	9/27/94	BI-214	1.0373	0.0000	0.05
VPG0336JE	VP31294	4 - 6"	148	9/23/94	NA-22	0.0000	0.0095	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	BI-207	0.0000	0.0185	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RA-226	3.5287	0.0000	0.66
VPG0336JE	VP31294	4 - 6"	148	9/23/94	AC-228	2.8846	0.0000	0.12
VPG0336JE	VP31294	4 - 6"	148	9/23/94	TH-228	4.8645	0.0000	3.87
VPG0336JE	VP31294	4 - 6"	148	9/23/94	AM-241	0.0000	0.1560	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	BE-7	0.0000	0.1200	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	K-40	29.1000	0.0000	0.57
VPG0336JE	VP31294	4 - 6"	148	9/23/94	MN-54	0.0000	0.0098	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CO-57	0.0000	0.0182	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CO-60	0.0000	0.0114	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	ZN-65	0.0000	0.0554	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	NB-95	0.0000	0.0199	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RH-101	0.0000	0.0216	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RH-102	0.0000	0.0220	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RH-102M	0.0000	0.0147	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	AG-110M	0.0000	0.0206	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CD-109	1.4888	0.0000	0.77
VPG0336JE	VP31294	4 - 6"	148	9/23/94	SB-125	0.0000	0.0436	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CS-134	0.0000	0.0148	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CS-137	0.0298	0.0000	0.02
VPG0336JE	VP31294	4 - 6"	148	9/23/94	BA-133	0.0000	0.0146	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CE-139	0.0000	0.0159	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CE-144	0.0000	0.1210	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	EU-152	0.0000	0.0470	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	EU-154	0.0000	0.0366	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	EU-155	0.1749	0.0000	0.09
VPG0336JE	VP31294	4 - 6"	148	9/23/94	PU-242	0.0000	7.0800	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	AM-243	0.0000	5.5400	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	HG-203	0.0000	0.0151	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	PB-210	0.0000	4.5400	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	SR-85	0.0000	0.0141	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CS-136	0.0000	0.0139	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	NP-237	0.0000	40.0000	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	U-237	0.0000	0.1190	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	NP-239	0.0000	0.1020	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	TH-234	2.8710	0.0000	0.69
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RA-224	2.8877	0.0000	0.64

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0336JE	VP31294	4 - 6"	148	9/23/94	SN-113	0.0000	0.0121	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	Y-88	0.0000	0.0112	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	CR-51	0.0000	0.1260	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	FE-59	0.0000	0.0202	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	ZR-95	0.0000	0.0309	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	MO-99	0.0226	0.0000	0.02
VPG0336JE	VP31294	4 - 6"	148	9/23/94	RU-103	0.0000	0.0146	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	SB-124	0.0000	0.0150	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	TE-132	0.0000	0.0148	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	XE-133	0.0000	10.9000	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	XE-133M	0.0000	0.1070	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	BA-140	0.0000	0.0600	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	ND-147	0.0000	0.1310	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	PU-239	0.0000	85300.0000	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	PB-212	2.7580	0.0000	0.08
VPG0336JE	VP31294	4 - 6"	148	9/23/94	PB-214	1.2783	0.0000	0.07
VPG0336JE	VP31294	4 - 6"	148	9/23/94	U-235	0.0000	0.1420	
VPG0336JE	VP31294	4 - 6"	148	9/23/94	BI-214	1.2239	0.0000	0.06
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	NA-22	0.0000	0.0109	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	BI-207	0.0000	0.0226	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RA-226	3.5247	0.0000	0.68
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	AC-228	1.4973	0.0000	0.13
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	TH-228	0.0000	7.7600	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	AM-241	0.0000	0.5300	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	BE-7	0.2006	0.0000	0.19
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	K-40	20.2750	0.0000	0.65
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	MN-54	0.0000	0.0173	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CO-57	0.0000	0.0506	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CO-60	0.0000	0.0158	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	ZN-65	0.0000	0.0642	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	NB-95	0.0000	0.0220	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RH-101	0.0000	0.0554	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RH-102	0.0000	0.0353	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RH-102M	0.0000	0.0497	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	AG-110M	0.0000	0.0279	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CD-109	4.6947	0.0000	2.01
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	SB-125	0.0000	0.0464	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CS-134	0.0000	0.0368	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CS-137	0.0996	0.0000	0.03
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	BA-133	0.0000	0.0297	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CE-139	0.0000	0.0217	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CE-144	0.0000	0.2800	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	EU-152	0.0000	0.0589	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	EU-154	0.0000	0.1040	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	EU-155	0.0000	0.1180	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	PU-242	0.0000	21.2000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	AM-243	0.0000	12.9000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	HG-203	0.0000	0.0268	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	PB-210	0.0000	13.7000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	SR-85	0.0000	0.0191	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CS-136	0.0000	0.0158	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	NP-237	0.0000	185.0000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	U-237	0.0000	0.1380	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	NP-239	0.0000	0.1220	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	TH-234	0.0000	3.5000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RA-224	3.6393	0.0000	0.91
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	SN-113	0.0000	0.0105	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	Y-88	0.0000	0.0115	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	CR-51	0.0000	0.2590	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	FE-59	0.0000	0.0393	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	ZR-95	0.0000	0.0542	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	MO-99	0.0349	0.0000	0.02
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	RU-103	0.0000	0.0181	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	SB-124	0.0000	0.0381	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	TE-132	0.0000	0.0507	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	XE-133	0.0000	30.1000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	XE-133M	0.0000	0.4070	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	BA-140	0.0000	0.0953	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	ND-147	0.2380	0.0000	0.23
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	PU-239	0.0000	53500.0000	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	PB-212	1.9844	0.0000	0.08
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	PB-214	0.9959	0.0000	0.06
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	U-235	0.0000	0.1690	
VPG0337JE	VP31394	0 - 2"	117.3, 152	9/23/94	BI-214	1.0154	0.0000	0.06
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	NA-22	0.0000	0.0230	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	BI-207	0.0000	0.0203	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RA-226	2.8131	0.0000	0.86
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	AC-228	2.1978	0.0000	0.14
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	TH-228	7.2679	0.0000	4.24
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	AM-241	0.0000	0.1240	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	BE-7	0.0000	0.2290	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	K-40	15.5310	0.0000	0.66
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	MN-54	0.0000	0.0196	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CO-57	0.0000	0.0485	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CO-60	0.0000	0.0114	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	ZN-65	0.0000	0.0637	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	NB-95	0.0000	0.0230	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RH-101	0.0000	0.0553	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RH-102	0.0000	0.0479	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RH-102M	0.0000	0.0599	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	AG-110M	0.0000	0.0265	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CD-109	0.0000	1.2200	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	SB-125	0.0000	0.0502	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CS-134	0.0000	0.0411	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CS-137	0.0453	0.0000	0.02
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	BA-133	0.0316	0.0000	0.03
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CE-139	0.0000	0.0239	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CE-144	0.0000	0.2950	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	EU-152	0.0000	0.0680	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	EU-154	0.0000	0.1010	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	EU-155	0.1409	0.0000	0.08
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	PU-242	0.0000	1.2400	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	AM-243	0.0000	0.8790	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	HG-203	0.0000	0.0205	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	PB-210	1.4789	0.0000	0.92
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	SR-85	0.0000	0.0203	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CS-136	0.0000	0.0170	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	NP-237	0.0000	0.9920	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	U-237	0.0000	0.0985	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	NP-239	0.0000	0.0883	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	TH-234	2.9637	0.0000	0.74
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RA-224	2.8584	0.0000	0.78
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	SN-113	0.0000	0.0294	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	Y-88	0.0000	0.0080	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	CR-51	0.0000	0.2860	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	FE-59	0.0000	0.0303	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	ZR-95	0.0000	0.0305	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	MO-99	0.0000	0.0266	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	RU-103	0.0000	0.0188	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	SB-124	0.0000	0.0427	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	TE-132	0.0000	0.0172	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	XE-133	0.0000	0.3300	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	XE-133M	0.0000	0.1110	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	BA-140	0.0000	0.1070	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	ND-147	0.0000	0.1450	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	PU-239	0.0000	70700.0000	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	PB-212	2.6029	0.0000	0.08
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	PB-214	0.9093	0.0000	0.08
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	U-235	0.0000	0.1840	
VPG0338JE	VP31394	2 - 4"	117.3, 152	9/28/94	BI-214	0.8725	0.0000	0.06
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	NA-22	0.0000	0.0152	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	BI-207	0.0000	0.0165	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RA-226	3.1850	0.0000	0.55
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	AC-228	1.6413	0.0000	0.13
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	TH-228	6.4950	0.0000	3.74
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	AM-241	0.0000	0.2120	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	BE-7	0.0000	0.1360	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	K-40	22.4910	0.0000	0.62
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	MN-54	0.0342	0.0000	0.02
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CO-57	0.0000	0.0098	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CO-60	0.0000	0.0154	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	ZN-65	0.0000	0.0619	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	NB-95	0.0000	0.0214	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RH-101	0.0000	0.0293	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RH-102	0.0000	0.0312	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RH-102M	0.0000	0.0387	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	AG-110M	0.0000	0.0254	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CD-109	0.0000	0.7810	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	SB-125	0.0000	0.0515	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CS-134	0.0000	0.0168	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CS-137	0.0887	0.0000	0.02
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	BA-133	0.0000	0.0205	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CE-139	0.0000	0.0159	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CE-144	0.0000	0.1520	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	EU-152	0.0000	0.0523	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	EU-154	0.0000	0.0357	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	EU-155	0.1246	0.0000	0.09
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	PU-242	0.0000	6.9100	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	AM-243	0.0000	5.6500	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	HG-203	0.0000	0.0088	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	PB-210	0.0000	4.2800	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	SR-85	0.0000	0.0146	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CS-136	0.0000	0.0191	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	NP-237	0.0000	18.9000	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	U-237	0.0000	0.1010	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	NP-239	0.0000	0.0989	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	TH-234	3.4934	0.0000	0.75
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RA-224	2.0920	0.0000	0.53
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	SN-113	0.0000	0.0134	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	Y-88	0.0000	0.0159	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	CR-51	0.0000	0.1220	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	FE-59	0.0000	0.0370	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	ZR-95	0.0000	0.0352	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	MO-99	0.0267	0.0000	0.02
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	RU-103	0.0000	0.0143	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	SB-124	0.0000	0.0125	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	TE-132	0.0000	0.0143	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	XE-133	0.0000	10.9000	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	XE-133M	0.0000	0.0877	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	BA-140	0.0000	0.0696	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	ND-147	0.0000	0.1310	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	PU-239	0.0000	77400.0000	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	PB-212	1.8738	0.0000	0.07
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	PB-214	0.9368	0.0000	0.07
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	U-235	0.0000	0.1350	
VPG0339JE	VP31394	4 - 6"	117.3, 152	9/21/94	BI-214	1.0308	0.0000	0.07
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	NA-22	0.0000	0.0145	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	BI-207	0.0000	0.0237	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RA-226	3.5624	0.0000	0.70
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	AC-228	2.0554	0.0000	0.17
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	TH-228	0.0000	9.8300	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	AM-241	0.0000	0.6770	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	BE-7	0.2631	0.0000	0.19
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	K-40	21.9540	0.0000	0.74
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	MN-54	0.0000	0.0216	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CO-57	0.0000	0.0646	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CO-60	0.0000	0.0111	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	ZN-65	0.0000	0.0733	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	NB-95	0.0000	0.0312	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RH-101	0.0000	0.0713	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RH-102	0.0000	0.0403	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RH-102M	0.0000	0.0509	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	AG-110M	0.0000	0.0403	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CD-109	0.0000	2.5900	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	SB-125	0.2343	0.0000	0.17
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CS-134	0.0000	0.0429	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CS-137	0.3532	0.0000	0.04
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	BA-133	0.0000	0.0354	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CE-139	0.0000	0.0299	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CE-144	0.0000	0.3670	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	EU-152	0.0000	0.0727	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	EU-154	0.0000	0.1330	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	EU-155	0.0000	0.1620	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	PU-242	0.0000	22.2000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	AM-243	0.0000	13.7000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	HG-203	0.0000	0.0273	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	PB-210	0.0000	14.7000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	SR-85	0.0000	0.0211	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CS-136	0.0000	0.0205	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	NP-237	0.0000	225.0000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	U-237	0.0000	0.1810	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	NP-239	0.0000	0.1640	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	TH-234	6.3845	0.0000	2.41
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RA-224	5.1811	0.0000	1.13
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	SN-113	0.0000	0.0380	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	Y-88	0.0000	0.0130	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	CR-51	0.0000	0.2760	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	FE-59	0.0000	0.0493	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	ZR-95	0.0000	0.0349	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	MO-99	0.0000	0.0337	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	RU-103	0.0000	0.0181	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	SB-124	0.0000	0.0448	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	TE-132	0.0000	0.0632	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	XE-133	0.0000	56.0000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	XE-133M	0.0000	0.5140	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	BA-140	0.0000	0.0997	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	ND-147	0.3211	0.0000	0.29
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	PU-239	0.0000	114000.0000	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	PB-212	2.5099	0.0000	0.10
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	PB-214	0.9735	0.0000	0.08
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	U-235	0.0000	0.2420	
VPG0340JE	VP31494	0 - 2"	117.3, 152	9/20/94	BI-214	1.0481	0.0000	0.07
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	NA-22	0.0000	0.0259	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	BI-207	0.0000	0.0228	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RA-226	4.6074	0.0000	0.80
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	AC-228	0.0000	0.1240	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	TH-228	0.0000	7.0400	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	AM-241	0.0000	0.3040	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	BE-7	0.0000	0.2180	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	K-40	0.0000	0.6080	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	MN-54	0.0000	0.0103	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CO-57	0.0000	0.0295	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CO-60	0.0000	0.0170	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	ZN-65	0.0000	0.0729	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	NB-95	0.0000	0.0188	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RH-101	0.0000	0.0269	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RH-102	0.0000	0.0312	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RH-102M	0.0000	0.0597	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	AG-110M	0.0000	0.0525	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CD-109	2.8598	0.0000	1.71
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	SB-125	0.0000	0.0556	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CS-134	0.0000	0.0223	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CS-137	0.6303	0.0000	0.05
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	BA-133	0.0000	0.0294	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CE-139	0.0000	0.0240	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CE-144	0.0000	0.2440	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	EU-152	0.0000	0.0364	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	EU-154	0.0000	0.0544	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	EU-155	0.0000	0.1280	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	PU-242	0.0000	12.7000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	AM-243	0.0000	9.8500	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	HG-203	0.0000	0.0272	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	PB-210	0.0000	7.6200	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	SR-85	0.0000	0.0212	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CS-136	0.0000	0.0191	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	NP-237	0.0000	107.0000	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	U-237	0.0000	0.1400	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	NP-239	0.0000	0.1370	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	TH-234	0.0000	2.5300	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RA-224	1.3120	0.0000	1.04
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	SN-113	0.0000	0.0146	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	Y-88	0.0000	0.0183	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	CR-51	0.0000	0.1640	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	FE-59	0.0000	0.0518	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	ZR-95	0.0000	0.0379	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	MO-99	0.0000	0.0230	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	RU-103	0.0000	0.0178	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	SB-124	0.0000	0.0254	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	TE-132	0.0000	0.0250	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	XE-133	0.0000	10.6000	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	XE-133M	0.0000	0.2090	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	BA-140	0.0000	0.0886	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	ND-147	0.1754	0.0000	0.17
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	PU-239	0.0000	105000.0000	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	PB-212	1.7007	0.0000	0.10
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	PB-214	0.8948	0.0000	0.08
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	U-235	0.0000	0.1700	
VPG0341JE	VP31494	2 - 4"	117.3, 152	9/18/94	BI-214	0.9200	0.0000	0.07
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	NA-22	0.0000	0.0177	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	BI-207	0.0000	0.0168	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RA-226	3.0846	0.0000	0.64
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	AC-228	1.1738	0.0000	0.12
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	TH-228	0.0000	3.4900	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	AM-241	0.0000	0.2100	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	BE-7	0.0000	0.1290	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	K-40	14.7220	0.0000	0.51
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	MN-54	0.0253	0.0000	0.02
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CO-57	0.0000	0.0089	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CO-60	0.0000	0.0145	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	ZN-65	0.0000	0.0578	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	NB-95	0.0000	0.0203	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RH-101	0.0000	0.0272	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RH-102	0.0000	0.0258	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RH-102M	0.0000	0.0358	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	AG-110M		5.3900	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CD-109	0.0000	0.6930	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	SB-125	0.0000	0.0502	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CS-134	0.0000	0.0168	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CS-137	0.0237	0.0000	0.02
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	BA-133	0.0000	0.0121	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CE-139	0.0000	0.0185	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CE-144	0.0000	0.1040	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	EU-152	0.0000	0.0478	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	EU-154	0.0000	0.0330	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	EU-155	0.1063	0.0000	0.08
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	PU-242	0.0000	6.7200	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	AM-243	0.0000	3.0600	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	HG-203	0.0000	0.0184	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	PB-210	0.0000	4.2600	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	SR-85	0.0000	0.0162	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CS-136	0.0206	0.0000	0.02
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	NP-237	0.0000	16.2000	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	U-237	0.0000	0.0373	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	NP-239	0.0000	0.0936	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	TH-234	0.0000	1.5600	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RA-224	1.3106	0.0000	0.53
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	SN-113	0.0000	0.0231	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	Y-88	0.0000	0.0174	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	CR-51	0.2255	0.0000	0.18
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	FE-59	0.0000	0.0153	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	ZR-95	0.0000	0.0215	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	MO-99	0.0215	0.0000	0.02
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	RU-103	0.0000	0.0156	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	SB-124	0.0000	0.0190	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	TE-132	0.0000	0.0081	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	XE-133	0.0000	10.5000	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	XE-133M	0.0000	0.0924	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	BA-140	0.0000	0.0799	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	ND-147	0.0000	0.0788	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	PU-239	0.0000	84500.0000	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	PB-212	1.1971	0.0000	0.06
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	PB-214	0.6688	0.0000	0.07
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	U-235	0.0000	0.1300	
VPG0342JE	VP31494	4 - 6"	117.3, 152	9/22/94	BI-214	0.7409	0.0000	0.07
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	NA-22	0.0000	0.0194	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	BI-207	0.0000	0.0191	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RA-226	2.4507	0.0000	0.64
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	AC-228	1.1130	0.0000	0.12
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	TH-228	0.0000	4.8900	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	AM-241	0.0000	0.2530	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	BE-7	0.2088	0.0000	0.15
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	K-40	11.9230	0.0000	0.69
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	MN-54	0.0000	0.0207	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CO-57	0.0000	0.0118	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CO-60	0.0000	0.0089	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	ZN-65	0.0000	0.0706	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	NB-95	0.0000	0.0204	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RH-101	0.0000	0.0234	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RH-102	0.0000	0.0292	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RH-102M	0.0000	0.0404	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	AG-110M	0.0000	0.0239	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CD-109	0.0000	1.2000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	SB-125	0.0000	0.0574	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CS-134	0.0000	0.0367	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CS-137	0.0400	0.0000	0.02
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	BA-133	0.0000	0.0252	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CE-139	0.0000	0.0190	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CE-144	0.1444	0.0000	0.13

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	EU-152	0.0000	0.0611	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	EU-154	0.0000	0.0343	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	EU-155	0.1053	0.0000	0.08
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	PU-242	0.0000	18.3000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	AM-243	0.0000	14.3000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	HG-203	0.0000	0.0154	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	PB-210	0.0000	11.5000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	SR-85	0.0000	0.0112	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CS-136	0.0000	0.0202	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	NP-237	0.0000	87.8000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	U-237	0.0000	0.0912	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	NP-239	0.0000	0.0869	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	TH-234	0.0000	2.1600	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RA-224	1.7238	0.0000	0.54
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	SN-113	0.0000	0.0265	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	Y-88	0.0000	0.0067	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	CR-51	0.0000	0.1270	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	FE-59	0.0000	0.0535	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	ZR-95	0.0000	0.0370	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	MO-99	0.0000	0.0191	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	RU-103	0.0000	0.0102	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	SB-124	0.0000	0.0380	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	TE-132	0.0000	0.0148	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	XE-133	0.0000	41.6000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	XE-133M	0.0000	0.0826	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	BA-140	0.0000	0.0838	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	ND-147	0.0000	0.1240	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	PU-239	0.0000	99400.0000	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	PB-212	1.4640	0.0000	0.06
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	PB-214	0.6189	0.0000	0.06
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	U-235	0.0000	0.1270	
VPG0343JE	VP31594	0 - 2"	117.1, 197	9/28/94	BI-214	0.6250	0.0000	0.06
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	NA-22	0.0000	0.0150	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	BI-207	0.2059	0.0000	0.06
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RA-226	2.4147	0.0000	0.43
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	AC-228	1.1277	0.0000	0.13
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	TH-228	6.5006	0.0000	5.41
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	AM-241	0.0000	0.2820	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	BE-7	0.0000	0.1220	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	K-40	17.2640	0.0000	0.47
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	MN-54	0.0000	0.0181	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CO-57	0.0000	0.0362	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CO-60	0.0000	0.0154	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	ZN-65	0.0000	0.0485	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	NB-95	0.0000	0.0167	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RH-101	0.0000	0.0404	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RH-102	0.0000	0.0101	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RH-102M	0.0000	0.0309	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	AG-110M	0.0000	0.0226	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CD-109	0.0000	1.4500	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	SB-125	0.0000	0.0410	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CS-134	0.0000	0.0283	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CS-137	0.0609	0.0000	0.02
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	BA-133	0.0000	0.0204	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CE-139	0.0000	0.0155	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CE-144	0.0000	0.2030	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	EU-152	0.0000	0.0490	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	EU-154	0.0000	0.0758	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	EU-155	0.0000	0.0936	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	PU-242	0.0000	7.8600	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	AM-243	0.0000	6.1400	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	HG-203	0.0000	0.0166	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	PB-210	0.0000	5.2200	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	SR-85	0.0000	0.0142	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CS-136	0.0218	0.0000	0.02
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	NP-237	0.0000	39.1000	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	U-237	0.0000	0.1040	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	NP-239	0.0000	0.0952	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	TH-234	3.6518	0.0000	1.20
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RA-224	1.2740	0.0000	0.62
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	SN-113	0.0000	0.0179	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	Y-88	0.0372	0.0000	0.03
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	CR-51	0.0000	0.2040	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	FE-59	0.0000	0.0157	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	ZR-95	0.0000	0.0141	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	MO-99	0.0172	0.0000	0.02
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	RU-103	0.0000	0.0170	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	SB-124	0.0000	0.0293	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	TE-132	0.0000	0.0371	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	XE-133	0.0000	7.3600	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	XE-133M	0.0000	0.3040	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	BA-140	0.0000	0.0506	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	ND-147	0.0000	0.1660	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	PU-239	0.0000	43500.0000	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	PB-212	1.4250	0.0000	0.06
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	PB-214	0.6270	0.0000	0.05
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	U-235	0.0000	0.1240	
VPG0344JE	VP31594	2 - 4"	117.1, 197	9/28/94	BI-214	0.6001	0.0000	0.05
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	NA-22	0.0000	0.0127	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	BI-207	0.0000	0.0151	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RA-226	2.3603	0.0000	0.46
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	AC-228	1.4131	0.0000	0.11
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	TH-228	0.0000	6.1300	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	AM-241	0.0000	0.4330	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	BE-7	0.0000	0.1470	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	K-40	19.1470	0.0000	0.48
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	MN-54	0.0000	0.0134	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CO-57	0.0000	0.0422	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CO-60	0.0000	0.0110	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	ZN-65	0.0000	0.0481	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	NB-95	0.0000	0.0200	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RH-101	0.0000	0.0465	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RH-102	0.0000	0.0314	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RH-102M	0.0000	0.0388	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	AG-110M	0.0000	0.0226	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CD-109	0.0000	1.6000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	SB-125	0.0000	0.0526	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CS-134	0.0000	0.0286	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CS-137	0.1507	0.0000	0.02
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	BA-133	0.0000	0.0204	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CE-139	0.0000	0.0170	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CE-144	0.0000	0.2380	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	EU-152	0.0000	0.0467	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	EU-154	0.0000	0.0870	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	EU-155	0.0930	0.0000	0.09
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	PU-242	0.0000	12.8000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	AM-243	0.0000	16.1000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	HG-203	0.0000	0.0196	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	PB-210	0.0000	13.8000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	SR-85	0.0000	0.0106	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CS-136	0.0000	0.0129	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	NP-237	0.0000	97.7000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	U-237	0.0000	0.1020	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	NP-239	0.0000	0.0870	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	TH-234	3.3654	0.0000	1.15
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RA-224	1.3145	0.0000	0.69
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	SN-113	0.0000	0.0209	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	Y-88	0.0000	0.0117	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	CR-51	0.0000	0.2000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	FE-59	0.0000	0.0303	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	ZR-95	0.0000	0.0272	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	MO-99	0.0305	0.0000	0.02
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	RU-103	0.0000	0.0080	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	SB-124	0.0000	0.0299	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	TE-132	0.0000	0.0411	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	XE-133	0.0000	46.3000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	XE-133M	0.0000	0.3290	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	BA-140	0.0000	0.0688	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	ND-147	0.0000	0.1800	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	PU-239	0.0000	80700.0000	
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	PB-212	1.8043	0.0000	0.06
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	PB-214	0.8161	0.0000	0.08
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	U-235	0.1889	0.0000	0.15
VPG0345JE	VP31594	4 - 6"	117.1, 197	9/28/94	BI-214	0.7240	0.0000	0.05
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	NA-22	0.0000	0.0091	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	BI-207	0.0000	0.0146	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RA-226	2.1234	0.0000	0.39
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	AC-228	0.5877	0.0000	0.09
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	TH-228	5.0292	0.0000	4.39
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	AM-241	0.0000	0.2800	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	BE-7	0.0000	0.1250	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	K-40	19.2180	0.0000	0.50
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	MN-54	0.0000	0.0135	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CO-57	0.0000	0.0324	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CO-60	0.0000	0.0077	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	ZN-65	0.0000	0.0419	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	NB-95	0.0000	0.0163	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RH-101	0.0000	0.0361	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RH-102	0.0000	0.0263	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RH-102M	0.0000	0.0316	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	AG-110M	0.0000	0.0185	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CD-109	0.0000	1.1700	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	SB-125	0.0000	0.0306	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CS-134	0.0000	0.0244	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CS-137	0.0222	0.0000	0.02
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	BA-133	0.0000	0.0198	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CE-139	0.0000	0.0164	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CE-144	0.0000	0.1880	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	EU-152	0.0000	0.0448	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	EU-154	0.0000	0.0672	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	EU-155	0.0000	0.0684	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	PU-242	0.0000	7.1900	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	AM-243	0.0000	4.3300	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	HG-203	0.0000	0.0156	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	PB-210	0.0000	4.8800	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	SR-85	0.0000	0.0104	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CS-136	0.0000	0.0111	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	NP-237	0.0000	35.0000	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	U-237	0.0000	0.0803	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	NP-239	0.0000	0.0710	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	TH-234	0.0000	1.8400	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RA-224	0.6118	0.0000	0.48
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	SN-113	0.0501	0.0000	0.04
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	Y-88	0.0000	0.0107	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	CR-51	0.0000	0.1840	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	FE-59	0.0000	0.0091	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	ZR-95	0.0000	0.0222	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	MO-99	0.0000	0.0173	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	RU-103	0.0000	0.0136	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	SB-124	0.0000	0.0250	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	TE-132	0.0000	0.0289	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	XE-133	0.0000	9.4800	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	XE-133M	0.0000	0.2320	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	BA-140	0.0000	0.0684	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	ND-147	0.0000	0.1330	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	PU-239	0.0000	70300.0000	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	PB-212	0.7160	0.0000	0.04
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	PB-214	0.5753	0.0000	0.05
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	U-235	0.0000	0.1230	
VPG0346JE	VP31694	0 - 2"	117.1, 197	9/28/94	BI-214	0.5778	0.0000	0.04
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	NA-22	0.0000	0.0149	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	BI-207	0.0000	0.0129	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RA-226	2.6348	0.0000	0.42
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	AC-228	0.6270	0.0000	0.09
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	TH-228	0.0000	5.1200	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	AM-241	0.0000	0.3840	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	BE-7	0.0000	0.1230	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	K-40	17.5950	0.0000	0.47
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	MN-54	0.0000	0.0142	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CO-57	0.0000	0.0364	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CO-60	0.0000	0.0118	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	ZN-65	0.0000	0.0475	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	NB-95	0.0000	0.0141	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RH-101	0.0000	0.0405	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RH-102	0.0000	0.0279	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RH-102M	0.0000	0.0326	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	AG-110M	0.0000	0.0180	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CD-109	0.0000	1.3300	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	SB-125	0.0000	0.0428	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CS-134	0.0000	0.0269	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CS-137	0.0244	0.0000	0.02
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	BA-133	0.0000	0.0181	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CE-139	0.0000	0.0176	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CE-144	0.0000	0.2120	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	EU-152	0.0000	0.0407	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	EU-154	0.0000	0.0754	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	EU-155	0.0000	0.0731	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	PU-242	0.0000	16.7000	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	AM-243	0.0000	4.7900	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	HG-203	0.0000	0.0107	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	PB-210	0.0000	11.5000	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	SR-85	0.0000	0.0085	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CS-136	0.0000	0.0077	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	NP-237	0.0000	164.0000	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	U-237	0.0000	0.0847	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	NP-239	0.0000	0.0720	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	TH-234	3.0768	0.0000	1.10
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RA-224	0.0000	0.5440	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	SN-113	0.0000	0.0157	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	Y-88	0.0130	0.0000	0.01
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	CR-51	0.0000	0.1840	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	FE-59	0.0000	0.0256	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	ZR-95	0.0618	0.0000	0.04
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	MO-99	0.0203	0.0000	0.02
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	RU-103	0.0000	0.0142	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	SB-124	0.0000	0.0279	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	TE-132	0.0000	0.0320	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	XE-133	0.0000	25.7000	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	XE-133M	0.0000	0.2520	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	BA-140	0.0000	0.0580	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	ND-147	0.0000	0.1510	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	PU-239	0.0000	53300.0000	
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	PB-212	0.8381	0.0000	0.05
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	PB-214	0.7147	0.0000	0.05
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	U-235	0.1378	0.0000	0.14
VPG0347JE	VP31694	2 - 4"	117.1, 197	9/28/94	BI-214	0.7909	0.0000	0.04
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	NA-22	0.0000	0.0113	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	BI-207	0.0000	0.0147	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RA-226	3.3045	0.0000	0.57
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	AC-228	0.8215	0.0000	0.10
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	TH-228	0.0000	7.2200	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	AM-241	0.0000	0.5560	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	BE-7	0.0000	0.1550	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	K-40	0.0000	0.5990	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	MN-54	0.0000	0.0123	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CO-57	0.0000	0.0449	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CO-60	0.0000	0.0156	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	ZN-65	0.0000	0.0504	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	NB-95	0.0000	0.0155	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RH-101	0.0000	0.0488	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RH-102	0.0000	0.0241	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RH-102M	0.0000	0.0289	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	AG-110M	0.0000	0.0338	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CD-109	0.0000	1.8600	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	SB-125	0.0000	0.0539	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CS-134	0.0000	0.0273	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CS-137	0.5747	0.0000	0.03
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	BA-133	0.0000	0.0225	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CE-139	0.0000	0.0222	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CE-144	0.0000	0.2440	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	EU-152	0.0000	0.0508	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	EU-154	0.0000	0.0923	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	EU-155	0.0961	0.0000	0.09
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	PU-242	0.0000	21.8000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	AM-243	0.0000	16.7000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	HG-203	0.0000	0.0211	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	PB-210	0.0000	14.5000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	SR-85	0.0000	0.0135	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CS-136	0.0000	0.0082	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	NP-237	0.0000	129.0000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	U-237	0.0000	0.1180	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	NP-239	0.0000	0.1020	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	TH-234	0.0000	3.2800	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RA-224	0.0000	0.7670	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	SN-113	0.0000	0.0143	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	Y-88	0.0000	0.0143	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	CR-51	0.0000	0.2200	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	FE-59	0.0000	0.0223	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	ZR-95	0.0000	0.0246	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	MO-99	0.0000	0.0207	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	RU-103	0.0000	0.0115	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	SB-124	0.0000	0.0285	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	TE-132	0.0000	0.0224	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	XE-133	0.0000	55.1000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	XE-133M	0.0000	0.1500	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	BA-140	0.0000	0.0495	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	ND-147	0.0000	0.2080	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	PU-239	0.0000	111000.0000	
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	PB-212	1.7001	0.0000	0.06
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	PB-214	0.6974	0.0000	0.06
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	U-235	0.1465	0.0000	0.14
VPG0348JE	VP31694	4 - 6"	117.1, 197	9/18/94	BI-214	0.6198	0.0000	0.04
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	NA-22	0.0000	0.0143	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	BI-207	0.0419	0.0000	0.04
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RA-226	2.9114	0.0000	0.60
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	AC-228	1.2333	0.0000	0.13
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	TH-228	4.7650	0.0000	3.56
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	AM-241	0.0000	0.1030	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	BE-7	0.0000	0.1450	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	K-40	22.7220	0.0000	0.67
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	MN-54	0.0000	0.0157	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CO-57	0.0000	0.0394	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CO-60	0.0000	0.0105	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	ZN-65	0.0000	0.0583	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	NB-95	0.0000	0.0194	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RH-101	0.0000	0.0453	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RH-102	0.0000	0.0418	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RH-102M	0.0000	0.0390	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	AG-110M	0.0000	0.0201	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CD-109	0.0000	1.0200	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	SB-125	0.0000	0.0529	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CS-134	0.0000	0.0377	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CS-137	0.0000	0.0205	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	BA-133	0.0000	0.0243	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CE-139	0.0000	0.0182	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CE-144	0.0000	0.2390	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	EU-152	0.0000	0.0528	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	EU-154	0.0000	0.0829	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	EU-155	0.1232	0.0000	0.07
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	PU-242	0.0000	1.1400	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	AM-243	0.0000	0.7860	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	HG-203	0.0000	0.0206	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	PB-210	1.7912	0.0000	0.85
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	SR-85	0.0000	0.0079	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CS-136	0.0252	0.0000	0.02
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	NP-237	0.0000	0.5150	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	U-237	0.0000	0.0835	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	NP-239	0.0000	0.0750	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	TH-234	1.7776	0.0000	0.73
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RA-224	0.0000	0.7060	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	SN-113	0.0000	0.0314	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	Y-88	0.0000	0.0161	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	CR-51	0.0000	0.2370	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	FE-59	0.0412	0.0000	0.04
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	ZR-95	0.0000	0.0351	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	MO-99	0.0000	0.0209	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	RU-103	0.0000	0.0154	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	SB-124	0.0000	0.0387	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	TE-132	0.0000	0.0173	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	XE-133	0.0000	0.3260	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	XE-133M	0.0000	0.1490	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	BA-140	0.0000	0.0793	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	ND-147	0.0000	0.1220	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	PU-239	0.0000	79800.0000	
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	PB-212	1.5432	0.0000	0.06
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	PB-214	1.2030	0.0000	0.07
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	U-235	0.1679	0.0000	0.13
VPG0349JE	VP31794	0 - 2"	117.1, 197	9/26/94	BI-214	1.1493	0.0000	0.06
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	NA-22	0.0000	0.0141	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	BI-207	0.0000	0.0252	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RA-226	3.7446	0.0000	0.89
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	AC-228	1.7548	0.0000	0.19
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	TH-228	0.0000	6.7200	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	AM-241	0.0000	0.2950	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	BE-7	0.0000	0.2240	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	K-40	28.0450	0.0000	1.18
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	MN-54	0.0548	0.0000	0.03
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CO-57	0.0000	0.0256	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CO-60	0.0658	0.0000	0.05
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	ZN-65	0.0000	0.0912	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	NB-95	0.0000	0.0259	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RH-101	0.0000	0.0313	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RH-102	0.0000	0.0448	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RH-102M	0.0000	0.0609	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	AG-110M	0.0000	0.0324	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CD-109	1.7212	0.0000	1.65
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	SB-125	0.0000	0.0667	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CS-134	0.0000	0.0492	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CS-137	0.0000	0.0281	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	BA-133	0.0000	0.0290	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CE-139	0.0000	0.0235	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CE-144	0.0000	0.1960	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	EU-152	0.0000	0.0763	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	EU-154	0.0000	0.0486	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	EU-155	0.1175	0.0000	0.10
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	PU-242	0.0000	25.5000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	AM-243	0.0000	19.8000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	HG-203	0.0000	0.0261	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	PB-210	0.0000	16.3000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	SR-85	0.0000	0.0211	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CS-136	0.0000	0.0195	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	NP-237	0.0000	225.0000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	U-237	0.0000	0.1330	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	NP-239	0.0000	0.1130	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	TH-234	0.0000	2.7200	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RA-224	1.1708	0.0000	0.81
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	SN-113	0.0000	0.0256	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	Y-88	0.0000	0.0076	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	CR-51	0.0000	0.1970	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	FE-59	0.0000	0.0675	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	ZR-95	0.0000	0.0508	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	MO-99	0.0000	0.0247	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	RU-103	0.0000	0.0240	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	SB-124	0.0000	0.0507	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	TE-132	0.0000	0.0220	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	XE-133	0.0000	54.3000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	XE-133M	0.0000	0.1410	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	BA-140	0.0000	0.0973	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	ND-147	0.0000	0.1740	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	PU-239	0.0000	95700.0000	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	PB-212	1.8967	0.0000	0.08
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	PB-214	1.2521	0.0000	0.08
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	U-235	0.0000	0.1700	
VPG0350JE	VP31794	2 - 4"	117.1, 197	9/24/94	BI-214	1.1719	0.0000	0.08
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	NA-22	0.0000	0.0155	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	BI-207	0.0000	0.0169	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RA-226	2.5503	0.0000	0.53
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	AC-228	1.1536	0.0000	0.11
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	TH-228	0.0000	6.1900	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	AM-241	0.0000	0.2550	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	BE-7	0.0000	0.1510	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	K-40	17.6580	0.0000	0.51

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	MN-54	0.0000	0.0195	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CO-57	0.0000	0.0406	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CO-60	0.0000	0.0099	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	ZN-65	0.0000	0.0534	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	NB-95	0.0000	0.0187	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RH-101	0.0000	0.0461	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RH-102	0.0000	0.0289	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RH-102M	0.0000	0.0395	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	AG-110M	0.0000	0.0207	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CD-109	1.7106	0.0000	1.61
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	SB-125	0.0000	0.0354	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CS-134	0.0000	0.0303	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CS-137	0.0000	0.0199	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	BA-133	0.0000	0.0244	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CE-139	0.0000	0.0172	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CE-144	0.0000	0.2350	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	EU-152	0.0000	0.0476	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	EU-154	0.0000	0.0853	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	EU-155	0.0000	0.0920	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	PU-242	0.0000	16.7000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	AM-243	0.0000	12.7000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	HG-203	0.0000	0.0164	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	PB-210	0.0000	11.5000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	SR-85	0.0000	0.0132	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CS-136	0.0000	0.0139	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	NP-237	0.0000	152.0000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	U-237	0.0000	0.1070	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	NP-239	0.0000	0.0943	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	TH-234	0.0000	2.6100	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RA-224	2.0914	0.0000	0.68
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	SN-113	0.0000	0.0259	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	Y-88	0.0000	0.0123	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	CR-51	0.0000	0.2070	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	FE-59	0.0000	0.0126	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	ZR-95	0.0000	0.0427	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	MO-99	0.0284	0.0000	0.02
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	RU-103	0.0000	0.0135	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	SB-124	0.0000	0.0315	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	TE-132	0.0000	0.0390	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	XE-133	0.0000	24.1000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	XE-133M	0.0000	0.3110	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	BA-140	0.0000	0.0691	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	ND-147	0.0000	0.1820	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	PU-239	0.0000	99200.0000	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	PB-212	1.3157	0.0000	0.06
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	PB-214	0.8352	0.0000	0.07
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	U-235	0.0000	0.1420	
VPG0351JE	VP31794	4 - 6"	117.1, 197	9/19/94	BI-214	0.8975	0.0000	0.05
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	NA-22	0.0000	0.0154	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	BI-207	0.0000	0.0254	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RA-226	2.2391	0.0000	0.92
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	AC-228	1.6135	0.0000	0.17
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	TH-228	0.0000	5.9200	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	AM-241	0.0000	0.3500	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	BE-7	0.0000	0.1590	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	K-40	26.1560	0.0000	0.84
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	MN-54	0.0414	0.0000	0.03
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CO-57	0.0000	0.0118	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CO-60	0.0000	0.0195	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	ZN-65	0.0000	0.0488	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	NB-95	0.0000	0.0267	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RH-101	0.0000	0.0124	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RH-102	0.0000	0.0293	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RH-102M	0.0000	0.0358	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	AG-110M	0.0000	0.0223	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CD-109	0.0000	1.4800	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	SB-125	0.0000	0.0589	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CS-134	0.0000	0.0430	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CS-137	0.0000	0.0226	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	BA-133	0.0000	0.0271	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CE-139	0.0000	0.0188	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CE-144	0.0000	0.1370	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	EU-152	0.0000	0.0611	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	EU-154	0.0000	0.0390	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	EU-155	0.0992	0.0000	0.09
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	PU-242	0.0000	21.7000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	AM-243	0.0000	16.6000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	HG-203	0.0000	0.0227	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	PB-210	0.0000	13.7000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	SR-85	0.0000	0.0146	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CS-136	0.0419	0.0000	0.04
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	NP-237	0.0000	105.0000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	U-237	0.0000	0.0745	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	NP-239	0.0000	0.1060	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	TH-234	0.0000	2.0700	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RA-224	1.6904	0.0000	0.75
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	SN-113	0.0000	0.0301	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	Y-88	0.0000	0.0074	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	CR-51	0.0000	0.2040	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	FE-59	0.0000	0.0425	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	ZR-95	0.0000	0.0406	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	MO-99	0.0000	0.0251	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	RU-103	0.0000	0.0135	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	SB-124	0.0000	0.0446	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	TE-132	0.0000	0.0237	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	XE-133	0.0000	48.4000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	XE-133M	0.0000	0.1320	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	BA-140	0.0000	0.0708	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	ND-147	0.0000	0.1550	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	PU-239	0.0000	130000.0000	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	PB-212	1.9814	0.0000	0.08
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	PB-214	1.0562	0.0000	0.09
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	U-235	0.0000	0.1840	
VPG0352JE	VP31894	0 - 2"	117.1, 197	9/26/94	BI-214	0.9074	0.0000	0.06
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	NA-22	0.0000	0.0179	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	BI-207	0.0000	0.0171	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RA-226	3.0446	0.0000	0.52
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	AC-228	1.7537	0.0000	0.11

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	TH-228	0.0000	3.5300	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	AM-241	0.0000	0.1290	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	BE-7	0.0000	0.1270	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	K-40	27.1380	0.0000	0.60
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	MN-54	0.0000	0.0166	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CO-57	0.0000	0.0131	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CO-60	0.0000	0.0108	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	ZN-65	0.0000	0.0567	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	NB-95	0.0000	0.0199	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RH-101	0.0000	0.0252	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RH-102	0.0000	0.0237	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RH-102M	0.0000	0.0367	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	AG-110M	0.0000	0.0166	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CD-109	1.0586	0.0000	0.68
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	SB-125	0.0000	0.0330	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CS-134	0.0000	0.0148	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CS-137	0.0000	0.0164	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	BA-133	0.0000	0.0143	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CE-139	0.0000	0.0171	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CE-144	0.0000	0.1590	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	EU-152	0.0000	0.0486	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	EU-154	0.0000	0.0316	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	EU-155	0.0000	0.0886	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	PU-242	0.0000	6.8900	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	AM-243	0.0000	5.3400	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	HG-203	0.0000	0.0184	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	PB-210	0.0000	4.4900	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	SR-85	0.0000	0.0112	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CS-136	0.0000	0.0173	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	NP-237	0.0000	35.3000	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	U-237	0.0000	0.0589	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	NP-239	0.0000	0.0968	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	TH-234	2.2336	0.0000	0.59
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RA-224	1.6395	0.0000	0.57
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	SN-113	0.0000	0.0200	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	Y-88	0.0000	0.0129	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	CR-51	0.0000	0.0762	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	FE-59	0.0000	0.0258	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	ZR-95	0.0000	0.0279	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	MO-99	0.0000	0.0150	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	RU-103	0.0000	0.0085	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	SB-124	0.0000	0.0175	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	TE-132	0.0000	0.0102	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	XE-133	0.0000	5.1100	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	XE-133M	0.0000	0.1070	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	BA-140	0.0000	0.0477	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	ND-147	0.0000	0.1170	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	PU-239	0.0000	58900.0000	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	PB-212	1.5592	0.0000	0.07
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	PB-214	1.0352	0.0000	0.08
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	U-235	0.0000	0.1340	
VPG0353JE	VP31894	2 - 4"	117.1, 197	9/25/94	BI-214	1.0076	0.0000	0.06
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	NA-22	0.0000	0.0165	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	BI-207	0.0000	0.0192	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERRO
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RA-226	3.0932	0.0000	0.55
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	AC-228	1.8021	0.0000	0.11
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	TH-228	8.2161	0.0000	6.32
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	AM-241	0.0000	0.3510	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	BE-7	0.0000	0.1590	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	K-40	22.4570	0.0000	0.53
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	MN-54	0.0000	0.0147	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CO-57	0.0000	0.0436	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CO-60	0.0000	0.0160	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	ZN-65	0.0000	0.0578	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	NB-95	0.0000	0.0191	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RH-101	0.0000	0.0488	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RH-102	0.0000	0.0374	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RH-102M	0.0000	0.0428	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	AG-110M	0.0000	0.0172	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CD-109	0.0000	1.7000	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	SB-125	0.0000	0.0391	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CS-134	0.0000	0.0324	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CS-137	0.0000	0.0184	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	BA-133	0.0000	0.0251	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CE-139	0.0000	0.0178	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CE-144	0.0000	0.2500	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	EU-152	0.0000	0.0569	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	EU-154	0.0000	0.0909	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	EU-155	0.0000	0.1170	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	PU-242	0.0000	8.8800	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	AM-243	0.0000	6.5300	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	HG-203	0.0000	0.0176	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	PB-210	0.0000	6.0900	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	SR-85	0.0000	0.0133	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CS-136	0.0000	0.0113	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	NP-237	0.0000	27.6000	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	U-237	0.0000	0.1270	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	NP-239	0.0000	0.1170	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	TH-234	3.5744	0.0000	1.17
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RA-224	1.6426	0.0000	0.76
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	SN-113	0.0000	0.0112	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	Y-88	0.0000	0.0062	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	CR-51	0.0000	0.2430	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	FE-59	0.0000	0.0350	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	ZR-95	0.0000	0.0244	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	MO-99	0.0000	0.0228	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	RU-103	0.0000	0.0146	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	SB-124	0.0000	0.0335	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	TE-132	0.0000	0.0427	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	XE-133	0.0000	12.6000	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	XE-133M	0.0000	0.3500	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	BA-140	0.0000	0.0769	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	ND-147	0.0000	0.1950	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	PU-239	0.0000	102000.0000	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	PB-212	2.2159	0.0000	0.06
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	PB-214	0.9672	0.0000	0.06
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	U-235	0.0000	0.1610	
VPG0354JE	VP31894	4 - 6"	117.1, 197	9/26/94	BI-214	0.9326	0.0000	0.05

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	NA-22	0.0000	0.0124	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	BI-207	0.0000	0.0177	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RA-226	3.3214	0.0000	0.56
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	AC-228	1.4928	0.0000	0.14
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	TH-228	0.0000	7.5200	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	AM-241	0.0000	0.5120	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	BE-7	0.0000	0.1480	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	K-40	26.6800	0.0000	0.65
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	MN-54	0.0000	0.0238	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CO-57	0.0000	0.0482	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CO-60	0.0000	0.0135	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	ZN-65	0.0000	0.0526	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	NB-95	0.0000	0.0250	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RH-101	0.0000	0.0530	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RH-102	0.0000	0.0403	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RH-102M	0.0000	0.0396	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	AG-110M	0.0000	0.0265	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CD-109	2.2570	0.0000	1.97
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	SB-125	0.0000	0.0375	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CS-134	0.0000	0.0330	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CS-137	0.1564	0.0000	0.02
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	BA-133	0.0000	0.0323	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CE-139	0.0000	0.0198	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CE-144	0.0000	0.2720	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	EU-152	0.0000	0.0559	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	EU-154	0.0000	0.0991	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	EU-155	0.0000	0.1270	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	PU-242	0.0000	8.4000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	AM-243	0.0000	12.2000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	HG-203	0.0000	0.0229	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	PB-210	0.0000	10.9000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	SR-85	0.0000	0.0162	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CS-136	0.0000	0.0093	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	NP-237	0.0000	157.0000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	U-237	0.0000	0.1410	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	NP-239	0.0000	0.1290	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	TH-234	4.6740	0.0000	1.49
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RA-224	3.8101	0.0000	0.82
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	SN-113	0.0000	0.0214	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	Y-88	0.0000	0.0124	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	CR-51	0.0000	0.2240	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	FE-59	0.0000	0.0247	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	ZR-95	0.0000	0.0550	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	MO-99	0.0000	0.0244	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	RU-103	0.0000	0.0168	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	SB-124	0.0000	0.0344	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	TE-132	0.0000	0.0459	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	XE-133	0.0000	23.7000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	XE-133M	0.0000	0.3690	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	BA-140	0.0000	0.0858	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	ND-147	0.0000	0.2250	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	PU-239	0.0000	50500.0000	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	PB-212	1.6956	0.0000	0.07
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	PB-214	0.8642	0.0000	0.07

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	U-235	0.0000	0.1710	
VPG0362JE	VP30194	0 - 2"	157.1, 191	9/25/94	BI-214	0.9065	0.0000	0.05
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NA-22	0.0000	0.0133	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BI-207	0.0000	0.0164	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RA-226	2.6550	0.0000	0.51
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AC-228	0.8837	0.0000	0.11
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TH-228	0.0000	5.9200	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AM-241	0.0000	0.3960	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BE-7	0.0000	0.1440	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	K-40	22.7390	0.0000	0.52
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	MN-54	0.0000	0.0161	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CO-57	0.0000	0.0409	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CO-60	0.0000	0.0169	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ZN-65	0.0000	0.0482	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NB-95	0.0000	0.0200	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-101	0.0000	0.0453	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-102	0.0000	0.0328	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RH-102M	0.0000	0.0369	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AG-110M	0.0000	0.0198	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CD-109	0.0000	1.5600	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SB-125	0.0000	0.0332	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-134	0.0000	0.0270	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-137	0.0000	0.0192	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BA-133	0.0000	0.0207	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CE-139	0.0000	0.0182	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CE-144	0.0000	0.2360	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-152	0.0000	0.0459	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-154	0.0000	0.0843	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	EU-155	0.0000	0.0981	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PU-242	0.0000	14.4000	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	AM-243	0.0000	8.6200	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	HG-203	0.0000	0.0164	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-210	0.0000	9.8300	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SR-85	0.0000	0.0088	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CS-136	0.0000	0.0056	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NP-237	0.0000	146.0000	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	U-237	0.0000	0.1100	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NP-239	0.0000	0.1000	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TH-234	0.0000	2.3700	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RA-224	0.7001	0.0000	0.63
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SN-113	0.0000	0.0199	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	Y-88	0.0000	0.0078	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	CR-51	0.0000	0.2000	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	FE-59	0.0412	0.0000	0.03
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ZR-95	0.0000	0.0406	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	MO-99	0.0000	0.0220	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	RU-103	0.0000	0.0067	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	SB-124	0.0000	0.0283	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	TE-132	0.0000	0.0359	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	XE-133	0.0000	21.6000	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	XE-133M	0.0000	0.2870	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BA-140	0.0000	0.0629	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	ND-147	0.0000	0.1770	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PU-239	0.0000	80700.0000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-212	1.1503	0.0000	0.05
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	PB-214	0.7622	0.0000	0.05
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	U-235	0.0000	0.1600	
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	BI-214	0.7635	0.0000	0.04
VPG0363JE	VP30394	0 - 2"	128, 134 (N), 171	9/21/94	NA-22	0.0000	0.0199	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	BI-207	0.0000	0.0222	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RA-226	3.6050	0.0000	0.61
VPG0366JE	VP30894	4 - 6"	186	9/24/94	AC-228	2.3799	0.0000	0.14
VPG0366JE	VP30894	4 - 6"	186	9/24/94	TH-228	0.0000	8.4800	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	AM-241	0.7450	0.0000	0.58
VPG0366JE	VP30894	4 - 6"	186	9/24/94	BE-7	0.0000	0.1700	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	K-40	24.3490	0.0000	0.67
VPG0366JE	VP30894	4 - 6"	186	9/24/94	MN-54	0.0000	0.0169	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CO-57	0.0000	0.0563	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CO-60	0.0000	0.0160	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	ZN-65	0.0000	0.0632	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	NB-95	0.0000	0.0245	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RH-101	0.0000	0.0641	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RH-102	0.0000	0.0460	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RH-102M	0.0000	0.0452	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	AG-110M	0.0000	0.0277	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CD-109	3.6009	0.0000	2.21
VPG0366JE	VP30894	4 - 6"	186	9/24/94	SB-125	0.0000	0.0656	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CS-134	0.0000	0.0369	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CS-137	0.1010	0.0000	0.03
VPG0366JE	VP30894	4 - 6"	186	9/24/94	BA-133	0.0000	0.0299	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CE-139	0.0000	0.0226	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CE-144	0.0000	0.3310	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	EU-152	0.0000	0.0611	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	EU-154	0.0000	0.1180	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	EU-155	0.0000	0.1390	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	PU-242	0.0000	22.8000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	AM-243	0.0000	17.9000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	HG-203	0.0000	0.0292	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	PB-210	0.0000	14.8000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	SR-85	0.0000	0.0183	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CS-136	0.0000	0.0187	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	NP-237	0.0000	201.0000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	U-237	0.0000	0.1560	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	NP-239	0.0000	0.1420	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	TH-234	0.0000	3.6300	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RA-224	3.3920	0.0000	1.02
VPG0366JE	VP30894	4 - 6"	186	9/24/94	SN-113	0.0000	0.0288	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	Y-88	0.0000	0.0152	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	CR-51	0.0000	0.2780	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	FE-59	0.0000	0.0371	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	ZR-95	0.0000	0.0574	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	MO-99	0.0405	0.0000	0.03
VPG0366JE	VP30894	4 - 6"	186	9/24/94	RU-103	0.0000	0.0217	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	SB-124	0.0000	0.0384	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	TE-132	0.0000	0.0552	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	XE-133	0.0000	50.7000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	XE-133M	0.0000	0.4480	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	BA-140	0.0000	0.0873	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0366JE	VP30894	4 - 6"	186	9/24/94	ND-147	0.2876	0.0000	0.25
VPG0366JE	VP30894	4 - 6"	186	9/24/94	PU-239	0.0000	117000.0000	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	PB-212	3.0297	0.0000	0.08
VPG0366JE	VP30894	4 - 6"	186	9/24/94	PB-214	1.1591	0.0000	0.09
VPG0366JE	VP30894	4 - 6"	186	9/24/94	U-235	0.0000	0.2270	
VPG0366JE	VP30894	4 - 6"	186	9/24/94	BI-214	1.1691	0.0000	0.06
VPG0373JE	VP31194	4 - 6"	148	9/26/94	NA-22	0.0000	0.0175	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	BI-207	0.0000	0.0216	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RA-226	3.5519	0.0000	0.62
VPG0373JE	VP31194	4 - 6"	148	9/26/94	AC-228	1.6665	0.0000	0.13
VPG0373JE	VP31194	4 - 6"	148	9/26/94	TH-228	0.0000	7.6900	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	AM-241	0.0000	0.5850	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	BE-7	0.0000	0.1530	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	K-40	20.4900	0.0000	0.64
VPG0373JE	VP31194	4 - 6"	148	9/26/94	MN-54	0.0000	0.0177	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CO-57	0.0000	0.0517	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CO-60	0.0000	0.0152	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	ZN-65	0.0000	0.0652	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	NB-95	0.0000	0.0155	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RH-101	0.0000	0.0568	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RH-102	0.0000	0.0303	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RH-102M	0.0000	0.0333	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	AG-110M	0.0000	0.0282	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CD-109	0.0000	2.0100	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	SB-125	0.0000	0.0562	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CS-134	0.0000	0.0382	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CS-137	0.2095	0.0000	0.02
VPG0373JE	VP31194	4 - 6"	148	9/26/94	BA-133	0.0000	0.0348	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CE-139	0.0000	0.0257	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CE-144	0.0000	0.2880	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	EU-152	0.0000	0.0684	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	EU-154	0.0000	0.1060	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	EU-155	0.1744	0.0000	0.11
VPG0373JE	VP31194	4 - 6"	148	9/26/94	PU-242	0.0000	22.5000	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	AM-243	0.0000	17.2000	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	HG-203	0.0000	0.0280	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	PB-210	0.0000	15.3000	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	SR-85	0.0000	0.0102	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CS-136	0.0000	0.0153	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	NP-237	0.0000	258.0000	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	U-237	0.0000	0.1270	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	NP-239	0.0000	0.1080	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	TH-234	0.0000	3.5300	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RA-224	2.2535	0.0000	0.93
VPG0373JE	VP31194	4 - 6"	148	9/26/94	SN-113	0.0000	0.0266	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	Y-88	0.0228	0.0000	0.02
VPG0373JE	VP31194	4 - 6"	148	9/26/94	CR-51	0.0000	0.2590	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	FE-59	0.0000	0.0257	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	ZR-95	0.0000	0.0339	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	MO-99	0.0000	0.0256	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	RU-103	0.0000	0.0128	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	SB-124	0.0000	0.0396	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	TE-132	0.0000	0.0512	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	XE-133	0.0000	33.0000	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0373JE	VP31194	4 - 6"	148	9/26/94	XE-133M	0.0000	0.4230	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	BA-140	0.0000	0.0851	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	ND-147	0.2507	0.0000	0.22
VPG0373JE	VP31194	4 - 6"	148	9/26/94	PU-239	0.0000	91200.0000	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	PB-212	2.1034	0.0000	0.08
VPG0373JE	VP31194	4 - 6"	148	9/26/94	PB-214	1.0907	0.0000	0.08
VPG0373JE	VP31194	4 - 6"	148	9/26/94	U-235	0.0000	0.1740	
VPG0373JE	VP31194	4 - 6"	148	9/26/94	BI-214	1.1118	0.0000	0.06
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	NA-22	0.0000	0.0125	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	BI-207	0.0000	0.0118	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RA-226	2.1834	0.0000	0.37
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	AC-228	0.8373	0.0000	0.08
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	TH-228	0.0000	2.6600	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	AM-241	0.0000	0.0785	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	BE-7	0.0000	0.0937	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	K-40	18.9260	0.0000	0.45
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	MN-54	0.0328	0.0000	0.02
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CO-57	0.0000	0.0098	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CO-60	0.0000	0.0143	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	ZN-65	0.0000	0.0123	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	NB-95	0.0000	0.0149	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RH-101	0.0000	0.0183	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RH-102	0.0000	0.0195	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RH-102M	0.0000	0.0224	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	AG-110M	0.0000	0.0069	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CD-109	0.0000	0.5140	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	SB-125	0.0000	0.0347	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CS-134	0.0000	0.0116	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CS-137	0.0000	0.0174	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	BA-133	0.0000	0.0134	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CE-139	0.0000	0.0108	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CE-144	0.0000	0.0587	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	EU-152	0.0000	0.0359	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	EU-154	0.0000	0.0252	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	EU-155	0.0000	0.0608	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	PU-242	0.0000	5.4900	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	AM-243	0.0000	4.3600	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	HG-203	0.0000	0.0100	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	PB-210	0.0000	3.5900	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	SR-85	0.0000	0.0096	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CS-136	0.0000	0.0113	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	NP-237	0.0000	29.0000	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	U-237	0.0000	0.0716	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	NP-239	0.0000	0.0681	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	TH-234	0.0000	1.0600	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RA-224	0.7920	0.0000	0.39
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	SN-113	0.0000	0.0088	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	Y-88	0.0000	0.0068	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	CR-51	0.0000	0.1020	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	FE-59	0.0000	0.0166	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	ZR-95	0.0000	0.0253	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	MO-99	0.0000	0.0110	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	RU-103	0.0000	0.0104	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	SB-124	0.0000	0.0137	

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	TE-132	0.0000	0.0137	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	XE-133	0.0000	7.8500	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	XE-133M	0.0000	0.0863	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	BA-140	0.0000	0.0552	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	ND-147	0.0000	0.0604	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	PU-239	0.0000	50100.0000	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	PB-212	0.8300	0.0000	0.05
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	PB-214	0.6615	0.0000	0.05
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	U-235	0.0000	0.0884	
VPG0379JE	VP31694	2 - 4"	117.1, 197	9/24/94	BI-214	0.6813	0.0000	0.05
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	NA-22	0.0000	0.0088	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	BI-207	0.0000	0.0161	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RA-226	2.2985	0.0000	0.43
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	AC-228	1.1190	0.0000	0.10
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	TH-228	0.0000	5.8600	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	AM-241	0.0000	0.4220	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	BE-7	0.1444	0.0000	0.13
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	K-40	12.6370	0.0000	0.43
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	MN-54	0.0000	0.0168	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CO-57	0.0000	0.0379	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CO-60	0.0000	0.0105	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	ZN-65	0.0000	0.0479	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	NB-95	0.0000	0.0187	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RH-101	0.0000	0.0415	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RH-102	0.0000	0.0276	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RH-102M	0.0000	0.0355	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	AG-110M	0.0000	0.0167	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CD-109	0.0000	1.5700	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	SB-125	0.0000	0.0305	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CS-134	0.0000	0.0268	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CS-137	0.0353	0.0000	0.02
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	BA-133	0.0000	0.0208	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CE-139	0.0000	0.0168	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CE-144	0.0000	0.2100	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	EU-152	0.0000	0.0472	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	EU-154	0.0000	0.0780	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	EU-155	0.0000	0.1010	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	PU-242	0.0000	17.3000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	AM-243	0.0000	13.7000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	HG-203	0.0000	0.0166	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	PB-210	0.0000	11.4000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	SR-85	0.0000	0.0089	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CS-136	0.0000	0.0114	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	NP-237	0.0000	136.0000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	U-237	0.0000	0.1120	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	NP-239	0.0000	0.1020	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	TH-234	0.0000	2.6000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RA-224	1.9420	0.0000	0.66
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	SN-113	0.0000	0.0204	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	Y-88	0.0000	0.0126	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	CR-51	0.0000	0.2060	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	FE-59	0.0000	0.0291	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	ZR-95	0.0000	0.0410	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	MO-99	0.0221	0.0000	0.02

TABLE A-2
OU13 Vertical Soil Profile
Laboratory HPGe Duplicate Results

SAMPLE NUMBER	LOCATION CODE	DEPTH	IHSS GROUP	ANALYSIS DATE	ANALYTE	RESULT pCi/g	MDA	ERROR
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	RU-103	0.0000	0.0054	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	SB-124	0.0000	0.0277	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	TE-132	0.0000	0.0366	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	XE-133	0.0000	33.8000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	XE-133M	0.0000	0.2940	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	BA-140	0.0000	0.0691	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	ND-147	0.0000	0.1780	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	PU-239	0.0000	57200.0000	
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	PB-212	1.4517	0.0000	0.05
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	PB-214	0.6402	0.0000	0.05
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	U-235	0.2427	0.0000	0.14
VPG0380JE	VP31594	0 - 2"	117.1, 197	9/22/94	BI-214	0.6488	0.0000	0.04

Notes:

pCi/g = picocuries per gram

APPENDIX B

Asphalt Analytical Data Tables

Appendix B Legend

A	=	Validation Qualifier, acceptable with qualification
B	=	Laboratory Qualifier: detected in blank
BKGRND	=	Background concentration
J	=	Laboratory Qualifier: estimated concentration or level
MDL	=	Method Detection Limit
mg/kg	=	milligrams per kilogram
NA	=	not applicable
PRG	=	Preliminary Remediation Goal (DOE 1994b)
SQL	=	Sample Quantitation Limit
V	=	Validation Qualifier: valid data
Y	=	in the process of being validated
#	=	Indicates compound exceeds background
-	=	There is no PRG for that compound
*	=	Indicates compound exceeds PRG
**	=	All samples reported with positive results; no nondetects
%	=	percent
µg/kg	=	microgram per kilogram
µg/g	=	microgram per gram

TABLE B-1
OU13 Asphalt Results
IHSSs 117.2, 134S, and 197

Sample Location: Sample Identification Number: Date Sampled:	SS300193 ASG0001JE 22-Dec-93	SS300293 ASG0002JE 23-Dec-93	SS302693 ASG0006JE 12-Jul-94	SS302693 ASG0007JE 12-Jul-94	SS303593 ASG0005JE 12-Jul-94	SS309893 ASG0008JE 14-Jul-94	SS309993 ASG0009JE 14-Jul-94
Test Group:METADD Units: mg/kg							
CESIUM	< 9.9 :J	< 9.9 :J	< 12 :V	< 12 :V	< 12 :V	< 12 :V	< 12 :V
LITHIUM	4.8 B:J	5.9 B:J	< 2.8 :J	< 2.2 :J	< 3.5 :J	< 3.4 :J	< 6.3 :J
MOLYBDENUM	1.1 B:V	1 B:V	< 1.1 :V	< 1.1 :V	< 1.1 :V	< 1.1 :V	< 1.1 :V
STRONTIUM	12.8 B:J	13.4 B:J	< 4.6 :J	< 5 :J	< 5.3 :J	< 5.6 :J	< 8.1 :J
TIN	5.9 B:J	< 4.7 :J	< 6.9 :J	< 6.9 :J	< 6.9 :J	< 6.9 :J	< 6.9 :J
Test Group:SMETCLP Units: mg/kg							
ALUMINUM	2550 :V	2650 :V	1390 :V	1090 :V	2150 :V	733 :V	3790 :V
ANTIMONY	< 6.1 :V	< 6.1 :V	< 5.6 :V	< 5.6 :V	< 5.6 :V	< 5.6 :V	< 5.6 :V
ARSENIC	.68 B:J	.37 B:J	< .73 :J	< .6 :J	< .83 :J	< .4 :V	< .42 :J
BARIUM	33.1 B:V	44 :V	18.4 B:V	13.2 B:V	29.7 B:V	9.9 B:V	59.2 :V
BERYLLIUM	.24 B:V	.24 B:V	< .13 :J	< .06 :J	< .19 :J	< .06 :J	< .16 :J
CADMIUM	< .35 :J	< .26 :V	< .3 :J	< .3 :J	< .3 :J	< .3 :J	< .3 :J
CALCIUM	1370 :J	1340 :J	904 B:J	734 B:J	1130 :J	785 B:J	4450 :J
CHROMIUM	5 :V	6.1 :V	3.5 :J	3.3 :J	4.3 :J	2.6 :J	15.2 :V
COBALT	9.6 B:V	4 B:V	1.8 B:V	1.6 B:V	3.1 B:V	.96 B:V	3.4 B:V
COPPER	12.2 :V	9.6 :V	6.3 :J	3.7 B:J	12.2 :J	2.8 B:J	10.3 :J
IRON	5370 :V	5640 :V	3860 :V	3300 :V	5780 :V	2400 :V	8940 :V
LEAD	16.7 :V	5.8 :V	3.3 :J	< 2.5 :J	7.9 :J	< 2.5 :J	< 2.1 :J
MAGNESIUM	1170 :V	1260 :V	727 B:V	570 B:V	1090 :V	431 B:V	2940 :V
MANGANESE	100 :V	109 :V	64 :J	54.6 :J	82.7 :J	54.9 :J	147 :J
MERCURY	.1 :V	< .05 :V	.07 B:J	.07 B:J	.07 B:J	.06 B:J	.06 B:J
NICKEL	5.2 B:V	6.1 B:V	2.2 B:V	2.9 B:V	5.9 B:V	2.2 B:V	6.7 B:V
POTASSIUM	1120 :V	1220 :V	648 B:V	483 B:V	948 B:V	320 B:V	2540 :V
SELENIUM	< .28 :J	< .28 :J	< .72 :J	< .55 :J	< .4 :V	< .54 :J	< .9 :J
SILVER	.57 B:V	< .54 :V	< .76 :J	< .76 :V	1.8 B:J	59.4 :J	< .76 :V
SODIUM	< 90 :J	< 107 :J	98.8 B:V	89.3 B:V	80.1 B:V	58.8 B:V	80.4 B:V
THALLIUM	< .48 :J	< .5 :J	< .62 :V	< .62 :V	< .62 :V	< .62 :V	< .62 :V
VANADIUM	12 :V	12.6 :V	8.4 B:J	5.9 B:J	11.3 :J	4.5 B:J	16.1 :J
ZINC	41.2 :V	32.9 :V	24.3 :V	27.7 :V	106 :V	8 :V	27 :V
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	.006(.006) :Y	.007(.008) :Y	.004(.006) :Y	.006(.007) :Y	.01(.009) :Y	NA	NA
CESIUM-134	.04() :Y	.04() :Y	.05() :Y	.03() :Y	.03() :Y	NA	NA
CESIUM-137	.04() :Y	.03() :Y	.03() :Y	.03() :Y	.08() :Y	NA	NA
PLUTONIUM-238	.005(.01) :Y	.006(.011) :Y	(.006) :Y	.002(.006) :Y	.001(.006) :Y	NA	NA
PLUTONIUM-239/240	.003(.009) :Y	.004(.01) :Y	() :Y	.028(.023) :Y	.002(.012) :Y	NA	NA
STRONTIUM-89	.5(.4) :Y	.3(.3) :Y	-.1(.3) :Y	(.4) :Y	.3(.3) :Y	NA	NA
STRONTIUM-90	-.14(.17) :Y	-.16(.17) :Y	-.16(.18) :Y	-.03(.2) :Y	.07(.19) :Y	NA	NA
URANIUM-233,-234	1.1(.25) :Y	1.23(.21) :Y	1.18(.22) :Y	1.22(.2) :Y	2.07(.41) :Y	NA	NA
URANIUM-235	.06(.04) :Y	.12(.05) :Y	.08(.04) :Y	.08(.04) :Y	.12(.06) :Y	NA	NA
URANIUM-238	1.03(.23) :Y	1.23(.21) :Y	1.18(.22) :Y	1.05(.18) :Y	1.98(.4) :Y	NA	NA

TABLE B-2
OU13 Asphalt Data Summary Table
IHSSs 117.2, 134S, and 197

	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg				
CESIUM		0	6	0
LITHIUM	SS300293 (1)	2	6	3.0667
MOLYBDENUM	SS300193 (1)	2	6	0.7167
STRONTIUM	SS300293 (1)	2	6	6.3333
TIN	SS300193 (1)	1	6	3.675
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	SS309993 (1)	6	6	2210.5
ANTIMONY		0	6	0
ARSENIC	SS300193 (1)	2	6	0.3625
BARIUM	SS309993 (1)	6	6	32.3833
BERYLLIUM	SS300193 (2)	2	6	0.1192
CADMIUM		0	6	0
CALCIUM	SS309993 (1)	6	6	1663.167
CHROMIUM	SS309993 (1)	6	6	6.1167
COBALT	SS300193 (1)	6	6	3.81
COPPER	SS300193 (2)	6	6	8.9
IRON	SS309993 (1)	6	6	5331.667
LEAD	SS300193 (1)	4	6	6
MAGNESIUM	SS309993 (1)	6	6	1269.667
MANGANESE	SS309993 (1)	6	6	92.9333
MERCURY	SS300193 (1)	5	6	0.0642
NICKEL	SS309993 (1)	6	6	4.8333
POTASSIUM	SS309993 (1)	6	6	1132.667
SELENIUM		0	6	0
SILVER	SS309893 (1)	3	6	10.4667
SODIUM	SS302693 (1)	4	6	69.4333
THALLIUM		0	6	0
VANADIUM	SS309993 (1)	6	6	10.8167
ZINC	SS303593 (1)	6	6	40.4667
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	SS303593 (1)	5	5	0.0066
CESIUM-134	SS302693 (1)	5	5	0.038
CESIUM-137	SS303593 (1)	5	5	0.042
PLUTONIUM-238	SS300293 (1)	5	5	0.0028
PLUTONIUM-239/240	SS302693 (1)	5	5	0.0074
STRONTIUM-89	SS300193 (1)	5	5	0.2
STRONTIUM-90	SS303593 (1)	5	5	-0.084
URANIUM-233,-234	SS303593 (1)	5	5	1.36
URANIUM-235	SS300293 (2)	5	5	0.092
URANIUM-238	SS303593 (1)	5	5	1.294

TABLE B-2
OU13 Asphalt Data Summary Table
IHSSs 117.2, 134S, and 197

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group:METADD Units: mg/kg								
CESIUM	200	9.9	SS300193 (2)	12	SS302693 (4)			
LITHIUM	20	2.2	SS302693 (1)	6.3	SS309993 (1)	4.8 B:J	SS300193 (1)	5.9 B:J
MOLYBDENUM	40	1.1	SS302693 (4)	1.1	SS302693 (4)	1 B:V	SS300293 (1)	1.1 B:V
STRONTIUM	40	4.6	SS302693 (1)	8.1	SS309993 (1)	12.8 B:J	SS300193 (1)	13.4 B:J
TIN	40	4.7	SS300293 (1)	6.9	SS302693 (4)	5.9 B:J	SS300193 (1)	5.9 B:J
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	40	**	**	**	**	733 :V	SS309893 (1)	3790 :V
ANTIMONY	12	5.6	SS302693 (4)	6.1	SS300193 (2)			
ARSENIC	2	0.4	SS309893 (1)	0.83	SS303593 (1)	.37 B:J	SS300293 (1)	.68 B:J
BARIUM	40	**	**	**	**	9.9 B:V	SS309893 (1)	59.2 :V
BERYLLIUM	1	0.06	SS302693 (2)	0.19	SS303593 (1)	.24 B:V	SS300193 (2)	.24 B:V
CADMIUM	1	0.26	SS300293 (1)	0.35	SS300193 (1)			
CALCIUM	1000	**	**	**	**	785 B:J	SS309893 (1)	4450 :J
CHROMIUM	2	**	**	**	**	2.6 :J	SS309893 (1)	15.2 :V
COBALT	10	**	**	**	**	.96 B:V	SS309893 (1)	9.6 B:V
COPPER	5	**	**	**	**	2.8 B:J	SS309893 (1)	12.2 :V
IRON	20	**	**	**	**	2400 :V	SS309893 (1)	8940 :V
LEAD	0.6	2.1	SS309993 (1)	2.5	SS309893 (1)	3.3 :J	SS302693 (1)	16.7 :V
MAGNESIUM	1000	**	**	**	**	431 B:V	SS309893 (1)	2940 :V
MANGANESE	3	**	**	**	**	54.9 :J	SS309893 (1)	147 :J
MERCURY	0.1	0.05	SS300293 (1)	0.05	SS300293 (1)	.06 B:J	SS309893 (2)	.1 :V
NICKEL	8	**	**	**	**	2.2 B:V	SS309893 (1)	6.7 B:V
POTASSIUM	1000	**	**	**	**	320 B:V	SS309893 (1)	2540 :V
SELENIUM	1	0.28	SS300193 (2)	0.9	SS309993 (1)			
SILVER	2	0.54	SS300293 (1)	0.76	SS302693 (2)	.57 B:V	SS300193 (1)	59.4 :J
SODIUM	1000	90	SS300193 (1)	107	SS300293 (1)	58.8 B:V	SS309893 (1)	98.8 B:V
THALLIUM	2	0.48	SS300193 (1)	0.62	SS302693 (4)			
VANADIUM	10	**	**	**	**	4.5 B:J	SS309893 (1)	16.1 :J
ZINC	4	**	**	**	**	8 :V	SS309893 (1)	106 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0.003	**	**	**	**	.004(.006) :Y	SS302693 (1)	.01(.009) :Y
CESIUM-134	0.03	**	**	**	**	.03() :Y	SS302693 (2)	.05() :Y
CESIUM-137	0.08	**	**	**	**	.03() :Y	SS300293 (3)	.08() :Y
PLUTONIUM-238	0.008	**	**	**	**	(.006) :YY	SS302693 (1)	.006(.011) :Y
PLUTONIUM-239/240	0.013	**	**	**	**	() :Y:Y	SS302693 (1)	.028(.023) :Y
STRONTIUM-89	0.5	**	**	**	**	-.1(.3) :Y	SS302693 (1)	.5(.4) :Y
STRONTIUM-90	0.34	**	**	**	**	-.16(.17) :Y	SS300293 (2)	.07(.19) :Y
URANIUM-233,-234	0.02	**	**	**	**	1.1(.25) :Y	SS300193 (1)	2.07(.41) :Y
URANIUM-235	0.01	**	**	**	**	.06(.04) :Y	SS300193 (1)	.12(.05) :Y
URANIUM-238	0.01	**	**	**	**	1.03(.23) :Y	SS300193 (1)	1.98(.4) :Y

TABLE B-3
OU13 Asphalt Positive Results Data Summary
IHSSs 117.2, 134S, and 197

	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:METADD Units: mg/kg				
LITHIUM	SS300293 (1)	2	6	3.0667
MOLYBDENUM	SS300193 (1)	2	6	0.7167
STRONTIUM	SS300293 (1)	2	6	6.3333
TIN	SS300193 (1)	1	6	3.675
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	SS309993 (1)	6	6	2210.5
ARSENIC	SS300193 (1)	2	6	0.3625
BARIUM	SS309993 (1)	6	6	32.3833
BERYLLIUM	SS300193 (2)	2	6	0.1192
CALCIUM	SS309993 (1)	6	6	1663.167
CHROMIUM	SS309993 (1)	6	6	6.1167
COBALT	SS300193 (1)	6	6	3.81
COPPER	SS300193 (2)	6	6	8.9
IRON	SS309993 (1)	6	6	5331.667
LEAD	SS300193 (1)	4	6	6
MAGNESIUM	SS309993 (1)	6	6	1269.667
MANGANESE	SS309993 (1)	6	6	92.9333
MERCURY	SS300193 (1)	5	6	0.0642
NICKEL	SS309993 (1)	6	6	4.8333
POTASSIUM	SS309993 (1)	6	6	1132.667
SILVER	SS309893 (1)	3	6	10.4667
SODIUM	SS302693 (1)	4	6	69.4333
VANADIUM	SS309993 (1)	6	6	10.8167
ZINC	SS303593 (1)	6	6	40.4667
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	SS303593 (1)	5	5	0.0066
CESIUM-134	SS302693 (1)	5	5	0.038
CESIUM-137	SS303593 (1)	5	5	0.042
PLUTONIUM-238	SS300293 (1)	5	5	0.0028
PLUTONIUM-239/240	SS302693 (1)	5	5	0.0074
STRONTIUM-89	SS300193 (1)	5	5	0.2
STRONTIUM-90	SS303593 (1)	5	5	-0.084
URANIUM-233,-234	SS303593 (1)	5	5	1.36
URANIUM-235	SS300293 (2)	5	5	0.092
URANIUM-238	SS303593 (1)	5	5	1.294

TABLE B-3
OU13 Asphalt Positive Results Data Summary
IHSSs 117.2, 134S, and 197

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group:METADD Units: mg/kg								
LITHIUM	20	2.2	SS302693 (1)	6.3	SS309993 (1)	4.8 B:J	SS300193 (1)	5.9 B:J
MOLYBDENUM	40	1.1	SS302693 (4)	1.1	SS302693 (4)	1 B:V	SS300293 (1)	1.1 B:V
STRONTIUM	40	4.6	SS302693 (1)	8.1	SS309993 (1)	12.8 B:J	SS300193 (1)	13.4 B:J
TIN	40	4.7	SS300293 (1)	6.9	SS302693 (4)	5.9 B:J	SS300193 (1)	5.9 B:J
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	40	**	**	**	**	733 :V	SS309893 (1)	3790 :V
ARSENIC	2	0.4	SS309893 (1)	0.83	SS303593 (1)	.37 B:J	SS300293 (1)	.68 B:J
BARIUM	40	**	**	**	**	9.9 B:V	SS309893 (1)	59.2 :V
BERYLLIUM	1	0.06	SS302693 (2)	0.19	SS303593 (1)	.24 B:V	SS300193 (2)	.24 B:V
CALCIUM	1000	**	**	**	**	785 B:J	SS309893 (1)	4450 :J
CHROMIUM	2	**	**	**	**	2.6 :J	SS309893 (1)	15.2 :V
COBALT	10	**	**	**	**	.96 B:V	SS309893 (1)	9.6 B:V
COPPER	5	**	**	**	**	2.8 B:J	SS309893 (1)	12.2 :V
IRON	20	**	**	**	**	2400 :V	SS309893 (1)	8940 :V
LEAD	0.6	2.1	SS309993 (1)	2.5	SS309893 (1)	3.3 :J	SS302693 (1)	16.7 :V
MAGNESIUM	1000	**	**	**	**	431 B:V	SS309893 (1)	2940 :V
MANGANESE	3	**	**	**	**	54.9 :J	SS309893 (1)	147 :J
MERCURY	0.1	0.05	SS300293 (1)	0.05	SS300293 (1)	.06 B:J	SS309893 (2)	.1 :V
NICKEL	8	**	**	**	**	2.2 B:V	SS309893 (1)	6.7 B:V
POTASSIUM	1000	**	**	**	**	320 B:V	SS309893 (1)	2540 :V
SILVER	2	0.54	SS300293 (1)	0.76	SS302693 (2)	.57 B:V	SS300193 (1)	59.4 :J
SODIUM	1000	90	SS300193 (1)	107	SS300293 (1)	58.8 B:V	SS309893 (1)	98.8 B:V
VANADIUM	10	**	**	**	**	4.5 B:J	SS309893 (1)	16.1 :J
ZINC	4	**	**	**	**	8 :V	SS309893 (1)	106 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0.003	**	**	**	**	.004(.006) :Y	SS302693 (1)	.01(.009) :Y
CESIUM-134	0.03	**	**	**	**	.03() :Y	SS302693 (2)	.05() :Y
CESIUM-137	0.08	**	**	**	**	.03() :Y	SS300293 (3)	.08() :Y
PLUTONIUM-238	0.008	**	**	**	**	(.006) :YY	SS302693 (1)	.006(.011) :Y
PLUTONIUM-239/240	0.013	**	**	**	**	() :Y:Y	SS302693 (1)	.028(.023) :Y
STRONTIUM-89	0.5	**	**	**	**	-.1(.3) :Y	SS302693 (1)	.5(.4) :Y
STRONTIUM-90	0.34	**	**	**	**	-.16(.17) :Y	SS300293 (2)	.07(.19) :Y
URANIUM-233,-234	0.02	**	**	**	**	1.1(.25) :Y	SS300193 (1)	2.07(.41) :Y
URANIUM-235	0.01	**	**	**	**	.06(.04) :Y	SS300193 (1)	.12(.05) :Y
URANIUM-238	0.01	**	**	**	**	1.03(.23) :Y	SS300193 (1)	1.98(.4) :Y

TABLE B-4
OU13 Asphalt Positive Results Table
IHSSs 117.2, 134S, and 197

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS300193 ASG0001JE 22-Dec-93	SS300293 ASG0002JE 23-Dec-93	SS302693 ASG0006JE 12-Jul-94	SS302693 ASG0007JE 12-Jul-94	SS303593 ASG0005JE 12-Jul-94	SS309893 ASG0008JE 14-Jul-94	SS309993 ASG0009JE 14-Jul-94
Test Group:METADD Units: mg/kg									
LITHIUM	100	0.00E 0 / 20.00E 0	4.8 B:JA	5.9 B:JA					
MOLYBDENUM	200	1.37E 3 / 40.00E 0	1.1 B:V	1 B:V					
STRONTIUM	200	1.65E 5 / 90.10E 0	12.8 B:JA	13.4 B:JA					
TIN	200	1.65E 5 / 75.90E 0	5.9 B:JA						
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	200	0.00E 0 / 21915.40E 0	2550 :V	2650 :V	1390 :V	1090 :V	2150 :V	733 :V	3790 :V
ARSENIC	10	3.66E-1 / 12.90E 0	.68 B:JA*	.37 B:JA*					
BARIUM	200	1.91E 4 / 528.00E 0	33.1 B:V	44 :V	18.4 B:V	13.2 B:V	29.7 B:V	9.9 B:V	59.2 :V
BERYLLIUM	5	1.49E-1 / 5.20E 0	.24 B:V*	.24 B:V*					
CALCIUM	5000	0.00E 0 / 13573.30E 0	1370 :JA	1340 :JA	904 B:JA	734 B:JA	1130 :JA	785 B:JA	4450 :JA
CHROMIUM	10	1.37E 3 / 24.80E 0	5 :V	6.1 :V	3.5 :JA	3.3 :JA	4.3 :JA	2.6 :JA	15.2 :V
COBALT	50	0.00E 0 / 24.80E 0	9.6 B:V-	4 B:V-	1.8 B:V-	1.6 B:V-	3.1 B:V-	.96 B:V-	3.4 B:V-
COPPER	25	1.10E 4 / 27.30E 0	12.2 :V	9.6 :V	6.3 :JA	3.7 B:JA	12.2 :JA	2.8 B:JA	10.3 :JA
IRON	100	0.00E 0 / 28160.40E 0	5370 :V	5640 :V	3860 :V	3300 :V	5780 :V	2400 :V	8940 :V
LEAD	3	0.00E 0 / 61.40E 0	16.7 :V	5.8 :V	3.3 :JA		7.9 :JA		
MAGNESIUM	5000	0.00E 0 / 7011.50E 0	1170 :V	1260 :V	727 B:V	570 B:V	1090 :V	431 B:V	2940 :V
MANGANESE	15	1.36E 3 / 2253.50E 0	100 :V	109 :V	64 :JA	54.6 :JA	82.7 :JA	54.9 :JA	147 :JA
MERCURY	0.2	8.23E 1 / 0.20E 0	.1 :V		.07 B:JA	.07 B:JA	.07 B:JA	.06 B:JA	.06 B:JA
NICKEL	40	5.49E 3 / 26.90E 0	5.2 B:V	6.1 B:V	2.2 B:V	2.9 B:V	5.9 B:V	2.2 B:V	6.7 B:V
POTASSIUM	5000	0.00E 0 / 5256.80E 0	1120 :V	1220 :V	648 B:V	483 B:V	948 B:V	320 B:V	2540 :V
SILVER	10	1.37E 3 / 10.00E 0	.57 B:V				1.8 B:JA	59.4 :JA#	
SODIUM	5000	0.00E 0 / 1108.00E 0			98.8 B:V	89.3 B:V	80.1 B:V	58.8 B:V	80.4 B:V
VANADIUM	50	1.92E 3 / 55.60E 0	12 :V	12.6 :V	8.4 B:JA	5.9 B:JA	11.3 :JA	4.5 B:JA	16.1 :JA
ZINC	20	8.23E 4 / 86.60E 0	41.2 :V	32.9 :V	24.3 :V	27.7 :V	106 :V#	8 :V	27 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.006(.006) :Y	.007(.008) :Y	.004(.006) :Y	.006(.007) :Y	.01(.009) :Y		
CESIUM-134	0	0.00E 0 / 0.00E 0	.04() :Y-	.04() :Y-	.05() :Y-	.03() :Y-	.03() :Y-		
CESIUM-137	0	2.83E 1 / 3.68E 0	.04() :Y	.03() :Y	.03() :Y	.03() :Y	.08() :Y		
PLUTONIUM-238	0	E 0 / E 0	.005(.01) :Y-	.006(.011) :Y-	(.006) :Y-	.002(.006) :Y-	.001(.006) :Y-		
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.003(.009) :Y	.004(.01) :Y	() :Y	.028(.023) :Y	.002(.012) :Y		
STRONTIUM-89	0	6.64E 1 / 22.39E-1	.5(.4) :Y	.3(.3) :Y	-.1(.3) :Y	(.4) :Y	.3(.3) :Y		
STRONTIUM-90	0	2.40E 0 / 22.39E-1	-.14(.17) :Y	-.16(.17) :Y	-.16(.18) :Y	-.03(.2) :Y	.07(.19) :Y		
URANIUM-233,-234	0	4.47E 1 / 17.69E-1	1.1(.25) :Y	1.23(.21) :Y	1.18(.22) :Y	1.22(.2) :Y	2.07(.41) :Y#		
URANIUM-235	0	1.73E-1 / 19.83E-2	.06(.04) :Y	.12(.05) :Y	.08(.04) :Y	.08(.04) :Y	.12(.06) :Y		
URANIUM-238	0	4.60E 1 / 19.12E-1	1.03(.23) :Y	1.23(.21) :Y	1.18(.22) :Y	1.05(.18) :Y	1.98(.4) :Y#		

† DOE 1994b
‡ DOE 1994d

APPENDIX C

Surface-Soil Analytical Data Tables

Appendix C Legend

A	=	Validation Qualifier
B	=	Laboratory Qualifier: detected in blank
BKGRND	=	Background concentration (DOE 1994b)
G	=	Native analyte greater than four times spike added - inorganics
J	=	Laboratory Qualifier: estimated value
MDL	=	Method Detection Limit
mg/kg	=	milligrams per kilogram
NA	=	not applicable
PAH	=	polynuclear aromatic hydrocarbon
pCi/g	=	picocuries per gram
PESTCLP	=	Pesticides contract lab program
pH	=	a measure of acidity and alkalinity
PRG	=	Preliminary Remediation Goal (DOE 1994c)
RBC	=	risk-based concentration
SQL	=	Sample Quantitation Limit
TIC	=	tentatively identified compound
V	=	Validation Qualifier: valid data
Y	=	in the process of being validated
?	=	Data has not been through the validation process
#	=	Indicates compound exceeds background
-	=	There is no RBC for that compound
*	=	Indicates compound exceeds RBC
**	=	All samples reported with positive results; no nondetects
%	=	percent
µg/kg	=	microgram per kilogram
µg/g	=	microgram per gram

APPENDIX C
Surface-Soil Analytical Data Tables

Table C-1	Surface-Soil Results OU13 - IHSS 117.1
Table C-2	Surface-Soil Results OU13 - IHSS 197
Table C-3	Surface-Soil Results OU13 - IHSS 117.2
Table C-4	Basefill Results Table OU13 - IHSS 117.2 Table
Table C-5	Surface-Soil Results OU13 - IHSS 158
Table C-6	Surface-Soil Results OU13 - IHSS 186
Table C-7	Surface-Soil Results OU13 - IHSS 128
Table C-8	Surface-Soil Results OU13 - IHSS 134N
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Table C-11	Surface-Soil Results OU13 - Outside IHSS Boundaries
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Table C-15	Summary of pH and Percent Solids OU13 IHSSs
Table C-16	OU13 Surface-Soil Duplicate Results
Table C-17	OU13 Surface-Soil Duplicates Data Summary
Table C-18	OU13 Surface-Soil Duplicate Positive Results
Table C-19	OU13 Surface-Soil Rinsate Positive Results
Table C-20	OU13 Surface-Soil Duplicate Positive Results Data Summary
Table C-21	OU13 Surface-Soil Rinsate Results
Table C-22	OU13 Surface-Soil Rinsate Data Summary
Table C-23	OU13 Surface-Soil Rinsate Positive Results Data Summary

TABLE C-1
Surface-Soil Results
OU13 - IHSS 117.1

Sample Location:	SS308993	SS309093	SS309193	SS309293	SS309393	SS309493	SS309593	SS310093	SS310193	SS310293
Sample Identification Number:	SSG1783JE	SSG1784JE	SSG1785JE	SSG1786JE	SSG1787JE	SSG1788JE	SSG1789JE	SSG1794JE	SSG1795JE	SSG1796JE
Date Sampled:	19-Jul-94	18-Jul-94	18-Jul-94	19-Jul-94	20-Jul-94	19-Jul-94	19-Jul-94	18-Jul-94	20-Jul-94	18-Jul-94
Test Group:METADD Units: mg/kg										
CESIUM	< 5.7 :J	< 10.1 :J	< 8.1 :J	< 8.3 :J	< 6.3 :J	< 7.8 :J	< 8.2 :J	< 5.7 :J	< 6.6 :J	< 8.1 :J
LITHIUM	7.9 B:J	7.9 B:J	6.3 B:J	6.7 B:J	7.5 B:J	8.8 B:J	6.4 B:J	2.1 B:J	6.1 B:J	6.1 B:J
MOLYBDENUM	2.4 B:V	3 B:V	3.4 B:V	2.5 B:V	2.9 B:V	2.9 B:V	2.6 B:V	1.1 B:V	2.5 B:V	3.1 B:V
STRONTIUM	20.4 B:J	20.7 B:J	17 B:J	20.5 B:J	17.4 B:J	29.8 B:J	20.1 B:J	8.2 B:J	17.3 B:J	21.7 B:J
TIN	< 2 :J	< 2.1 :J	< 2.1 :J	< 2.2 :J	< 2.2 :J	< 2 :J	< 2.2 :J	< 2 :J	< 2.3 :J	< 2.1 :J
Test Group:SMETCLP Units: mg/kg										
ALUMINUM	12700 :V	13200 :V	8970 :V	7420 :V	11800 :V	12400 :V	9780 :V	2650 :V	7880 :V	8580 :V
ANTIMONY	< 2.5 :J	< 2.7 :J	< 2.6 :J	< 2.7 :J	< 2.7 :J	< 2.5 :J	< 2.7 :J	< 2.5 :J	< 2.9 :J	< 2.7 :J
ARSENIC	8.3 :V	8.1 :V	6.2 :V	4 :V	6.5 :V	7.7 :V	7.1 :V	6.5 :V	7.5 :V	6.6 :V
BARIUM	79.3 :V	83 :V	87.6 :V	356 :V	84.3 :V	99.7 :V	79.9 :V	37.7 B:V	87 :V	107 :V
BERYLLIUM	.98 :V	.99 B:V	.63 B:V	.46 B:V	.78 B:V	.92 B:V	1.2 :V	.17 B:V	.5 B:V	.56 B:V
CADMIUM	< .15 :V	1.6 :V	2.7 :V	1.2 :V	.96 B:V	.41 B:V	1.1 :V	.33 B:V	.24 B:V	1.8 :V
CALCIUM	3210 :V	3600 :V	2880 :V	2690 :V	3130 :V	7980 :V	3410 :V	1100 :V	2480 :V	4130 :V
CHROMIUM	11.8 :J	15.7 :J	18.5 :J	11.3 :J	13.3 :J	16.9 :J	13.4 :J	5.9 :J	12.6 :J	20.6 :J
COBALT	7.7 B:V	6.4 B:V	6.8 B:V	7.2 B:V	6.1 B:V	6.9 B:V	5.8 B:V	2 B:V	10 B:V	6.1 B:V
COPPER	33.3 :V	31.4 :V	183 :V	20.3 :V	23.7 :V	25.3 :V	20.9 :V	17.1 :V	16.6 :V	58 :V
IRON	14700 :V	16500 :V	15200 :V	12200 :V	14400 :V	16000 :V	13800 :V	4550 :V	11200 :V	15700 :V
LEAD	9.9 :V	17.2 :V	34 :V	36 :V	29.8 :V	19.8 :V	29.8 :V	12.5 :V	23 :V	75.9 :V
MAGNESIUM	2830 :V	2190 :V	1820 :V	2090 :V	2280 :V	2140 :V	1940 :V	670 B:V	1280 :V	1850 :V
MANGANESE	244 :V	185 :V	194 :V	835 :V	241 :V	215 :V	195 :V	70.7 :V	239 :V	207 :V
MERCURY	.06 B:V	.06 B:V	.09 B:V	< .05 :V	.2 :V	.16 :V	< .05 :V	< .05 :V	.1 B:V	.05 B:V
NICKEL	14 :V	15.1 :V	14.5 :V	10 :V	12.1 :V	13.9 :V	10.6 :V	4.1 B:V	7.6 B:V	11.1 :V
POTASSIUM	1640 :V	1560 :V	1530 :V	1690 :V	1750 :V	1750 :V	1540 :V	592 B:V	1420 :V	1530 :V
SELENIUM	1.1 :V	< .57 :V	< .56 :V	< .58 :V	.77 B:V	1.4 :V	< .57 :V	< .53 :V	.99 B:V	< .57 :V
SILVER	1.3 B:V	1.1 B:V	10.1 :V	.92 B:V	1.2 B:V	.99 B:V	.92 B:V	< .78 :V	.95 B:V	.88 B:V
SODIUM	79.5 B:V	61.8 B:V	63.8 B:V	121 B:V	71.1 B:V	80.3 B:V	101 B:V	28.4 B:V	55.2 B:V	125 B:V
THALLIUM	< .42 :V	< .45 :V	< .44 :V	< .46 :V	< .46 :V	< .43 :V	< .45 :V	< .42 :V	< .48 :V	< .45 :V
VANADIUM	33.9 :V	36.6 :V	28.9 :V	21.9 :V	29.9 :V	39.3 :V	30.7 :V	12 :V	26.4 :V	26.9 :V
ZINC	53.5 :V	109 :V	203 :V	103 :V	85.8 :V	129 :V	130 :V	58.3 :V	46.7 :V	226 :V
Test Group:TRADS Units: pCi/g										
AMERICIUM-241	< .005(.007) :A	< .009(.008) :V	.019(.009) J:V	.06(.013) :V	.008(.005) J:V	NA	NA	< .002(.006) :V	.013(.01) J:V	.038(.01) :V
GROSS ALPHA	5.5(2.5) :A	7.1(2.4) :A	8.3(2.7) :A	8.9(2.4) :A	6.9(2.7) :A	NA	NA	4.5(1.8) :A	6.7(2.3) :A	3.8(2.2) J:A
GROSS BETA	11(2.9) :A	13(3.1) :A	12(2.8) :A	15(3) :A	14(2.9) :A	NA	NA	10(3.1) :A	12(2.9) :A	11(2.8) :A
PLUTONIUM-239/240	.034(.012) :V	.027(.008) BJ:V	.13(.022) :V	.43(.039) :V	.048(.011) B:V	NA	NA	.016(.006) J:V	.017(.008) J:V	.16(.023) :V
TRITIUM	< 60(150) :V	< 34(140) :V	< 29(140) :V	< -17(140) :V	< -17(140) :V	NA	NA	< -270(700) :V	< -46(140) :V	< 130(300) :V
URANIUM-233,-234	.31(.11) :V	.55(.16) :V	.31(.11) :V	.22(.092) J:V	.31(.096) :V	NA	NA	.49(.15) :V	.43(.12) :V	.38(.12) :V
URANIUM-235	< .01(.019) :V	< .02(.04) :V	< .022(.044) :V	< .027(.037) :V	< .035(.028) :V	NA	NA	< .042(.042) :V	< .022(.03) :V	< .04(.04) :V
URANIUM-238	.54(.13) :V	.5(.14) :V	.39(.13) :V	.39(.11) :V	.31(.084) :V	NA	NA	.44(.13) :V	.48(.12) :V	.35(.1) :V
Test Group:VOA8240 Units: µg/kg										
1,1,1-TRICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
1,1,2,2-TETRACHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
1,1,2-TRICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
1,1-DICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
1,1-DICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
1,2-DICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
1,2-DICHLOROPROPANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
2-BUTANONE	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 110 :V	< 100 :V
2-CHLOROETHYL VINYL ETHER	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 10 :V
2-HEXANONE	< 51 :V	< 51 :V	< 52 :V	< 52 :V	< 51 :V	< 51 :V	< 50 :V	< 50 :V	< 56 :V	< 51 :J
4-METHYL-2-PENTANONE	< 51 :V	< 51 :V	< 52 :V	< 52 :V	< 51 :V	< 51 :V	< 50 :V	< 50 :V	< 56 :V	< 51 :J
ACETONE	< 100 :J	< 100 :J	< 100 :J	< 100 :J	< 100 :J	< 100 :J	< 100 :J	< 100 :J	< 110 :J	< 100 :J
BENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J

TABLE C-1
Surface-Soil Results
OU13 - IHSS 117.1

Sample Location:	SS308993	SS309093	SS309193	SS309293	SS309393	SS309493	SS309593	SS310093	SS310193	SS310293
Sample Identification Number:	SSG1783JE	SSG1784JE	SSG1785JE	SSG1786JE	SSG1787JE	SSG1788JE	SSG1789JE	SSG1794JE	SSG1795JE	SSG1796JE
Date Sampled:	19-Jul-94	18-Jul-94	18-Jul-94	19-Jul-94	20-Jul-94	19-Jul-94	19-Jul-94	18-Jul-94	20-Jul-94	18-Jul-94
BROMODICHLOROMETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
BROMOFORM	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
BROMOMETHANE	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 10 :V
CARBON DISULFIDE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
CARBON TETRACHLORIDE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
CHLOROBENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
CHLOROETHANE	< 10 :V	< 10 :J	< 10 :V	< 10 :V	< 10 :J	< 10 :V	< 10 :V	< 10 :V	< 11 :J	< 10 :J
CHLOROFORM	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
CHLOROMETHANE	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 10 :V
DIBROMOCHLOROMETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
ETHYLBENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
METHYLENE CHLORIDE	< 5 :V	< 5 :J	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :J	< 6 :V	< 5 :V
STYRENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
TETRACHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
TOLUENE	< 5 :V	13 :V	< 5 :V	< 5 :V	2 J:A	< 5 :V	< 5 :V	< 5 :V	2 J:A	8 :J
TOTAL XYLENES	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
TRICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
VINYL ACETATE	< 51 :V	< 51 :V	< 52 :V	< 52 :V	< 51 :V	< 51 :V	< 50 :V	< 50 :V	< 56 :V	< 51 :J
VINYL CHLORIDE	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 10 :V
cis-1,3-DICHLOROPROPENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J
trans-1,2-DICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :V
trans-1,3-DICHLOROPROPENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V	< 5 :J

Notes:

mg/kg = milligrams per kilogram
pCi/g = picocuries per gram
µg/kg = micrograms per kilogram

TABLE C-2
Surface-Soil Results
OU13 - IHSS 197

Sample Location: Sample Identification Number: Date Sampled:	SS309693 SSG1790JE 14-Jul-94	SS309793 SSG1791JE 14-Jul-94	SS309793 SSG1836JE 14-Jul-94	SS309893 SSG1792JE 14-Jul-94	SS309993 SSG1793JE 14-Jul-94
Test Group:METADD Units: mg/kg					
CESIUM	< 7.6 :J	< 5.9 :J	< 7.7 :J	< 5.9 :J	< 6.6 :J
LITHIUM	5 B:J	4.7 B:J	5.1 B:J	5.9 B:J	7.2 B:J
MOLYBDENUM	2.2 B:V	2.1 B:V	2.1 B:V	1.4 B:V	2.2 B:V
STRONTIUM	12 B:J	12.1 B:J	12.4 B:J	11.9 B:J	39.5 B:J
TIN	< 2 :J	< 2.1 :J	< 2 :J	< 2.1 :J	< 2.3 :J
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	6070 :V	4650 :V	5040 :V	4780 :V	7890 :V
ANTIMONY	< 2.5 :J	< 2.6 :J	< 2.5 :J	< 2.6 :J	< 2.9 :J
ARSENIC	4.5 :V	2.6 :V	2.5 :V	2.4 :V	5.3 :V
BARIUM	70.3 :V	43.6 :V	46.5 :V	67.5 :V	55.7 :V
BERYLLIUM	.46 B:V	.26 B:V	.27 B:V	.18 B:V	.34 B:V
CADMIUM	.95 B:V	.59 B:V	.57 B:V	< .16 :V	< .18 :V
CALCIUM	2030 :V	1910 :V	2110 :V	1730 :V	9690 :V
CHROMIUM	15.4 :J	12.9 :J	15.3 :J	8.6 :J	9.4 :J
COBALT	4.6 B:V	4 B:V	4 B:V	5.1 B:V	16.4 :V
COPPER	16.9 :V	18.6 :V	17.3 :V	10.9 :V	56.3 :V
IRON	10900 :V	9680 :V	10700 :V	9090 :V	15900 :V
LEAD	40.1 :V	37.2 :V	52.2 :V	4.4 :V	11 :V
MAGNESIUM	1940 :V	2040 :V	2130 :V	1830 :V	4770 :V
MANGANESE	168 :V	176 :V	187 :V	183 :V	335 :V
MERCURY	< .05 :V	< .05 :V	< .05 :V	< .05 :V	< .05 :V
NICKEL	8.4 :V	8.6 :V	8.6 :V	6.8 B:V	11.7 :V
POTASSIUM	1170 :V	1050 :V	1080 :V	1520 :V	1190 :V
SELENIUM	.76 B:V	< .55 :V	< .54 :V	< .55 :V	.98 B:V
SILVER	.79 B:V	< .81 :V	.96 B:V	1 B:V	20.8 :V
SODIUM	87.9 B:V	176 B:V	232 B:V	91.7 B:V	424 B:V
THALLIUM	< .42 :V	< .43 :V	< .42 :V	< .44 :V	< .48 :V
VANADIUM	20.3 :V	17.6 :V	18.8 :V	12.8 :V	29.4 :V
ZINC	141 :V	395 :V	416 :V	25.8 :V	50.2 :V
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.013(.01) U:V	.02(.009) :V	.016(.008) J:V	.005(.007) U:A	.006(.004) J:V
GROSS ALPHA	6.8(2.5) :A	4.9(2.1) :A	3.7(2.2) J:A	5.3(2.2) :A	3.8(2.2) J:A
GROSS BETA	13(2.8) :A	12(2.9) :A	13(3) :A	16(3.1) :A	8.1(2.8) J:A
PLUTONIUM-239/240	.036(.008) B:V	.044(.009) B:V	.045(.011) B:V	.001(.002) U:V	.01(.005) BJ:V
TRITIUM	31(270) U:V	-64(360) U:V	-290(390) U:V	-4.3(150) U:V	-280(290) U:V
URANIUM-233,-234	.35(.12) :V	.28(.1) J:V	.2(.091) J:V	.28(.12) J:V	.32(.15) :V
URANIUM-235	.048(.049) U:V	.017(.034) U:V	.011(.022) U:V	.036(.048) U:V	.088(.089) U:V
URANIUM-238	.36(.12) :V	.34(.1) :V	.29(.11) J:V	.25(.1) J:V	.34(.13) :V
Test Group:VOA8240 Units: µg/kg					
1,1,1-TRICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
1,1,2,2-TETRACHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
1,1,2-TRICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V

TABLE C-2
Surface-Soil Results
OU13 - IHSS 197

Sample Location:	SS309693	SS309793	SS309793	SS309893	SS309993
Sample Identification Number:	SSG1790JE	SSG1791JE	SSG1836JE	SSG1792JE	SSG1793JE
Date Sampled:	14-Jul-94	14-Jul-94	14-Jul-94	14-Jul-94	14-Jul-94
1,1-DICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
1,1-DICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
1,2-DICHLOROETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
1,2-DICHLOROPROPANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
2-BUTANONE	< 100 :V	< 100 :V	< 100 :V	< 110 :V	< 110 :V
2-CHLOROETHYL VINYL ETHER	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 11 :V
2-HEXANONE	< 50 :V	< 50 :V	< 50 :V	< 54 :V	< 56 :V
4-METHYL-2-PENTANONE	< 50 :V	< 50 :V	< 50 :V	< 54 :V	< 56 :V
ACETONE	< 100 :J	< 100 :J	< 100 :J	< 110 :J	< 110 :J
BENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
BROMODICHLOROMETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
BROMOFORM	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
BROMOMETHANE	< 10 :J	< 10 :J	< 10 :J	< 11 :J	< 11 :J
CARBON DISULFIDE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
CARBON TETRACHLORIDE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
CHLOROBENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
CHLOROETHANE	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 11 :V
CHLOROFORM	< 5 :V	< 5 :V	< 5 :V	2 J:A	< 6 :V
CHLOROMETHANE	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 11 :V
DIBROMOCHLOROMETHANE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
ETHYLBENZENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
METHYLENE CHLORIDE	< 5 :J	< 5 :J	< 5 :J	< 5 :J	< 6 :J
STYRENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
TETRACHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
TOLUENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
TOTAL XYLENES	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
TRICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
VINYL ACETATE	< 50 :V	< 50 :V	< 50 :V	< 54 :V	< 56 :V
VINYL CHLORIDE	< 10 :V	< 10 :V	< 10 :V	< 11 :V	< 11 :V
cis-1,3-DICHLOROPROPENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
trans-1,2-DICHLOROETHENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V
trans-1,3-DICHLOROPROPENE	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 6 :V

TABLE C-3
Surface-Soil Results
OU13 - IHSS 117.2

Sample Location:	SS300193	SS300293	SS305893	SS305893	SS305993	SS306093	SS306193	SS306293	SS306393	SS306493	SS306593	SS306693
Sample Identification Number:	SSG1694JE	SSG1695JE	SSG1752JE	SSG1824JE	SSG1753JE	SSG1754JE	SSG1755JE	SSG1756JE	SSG1757JE	SSG1758JE	SSG1759JE	SSG1760JE
Date Sampled:	22-Dec-93	23-Dec-93	28-Jun-94	28-Jun-94	28-Jun-94	29-Jun-94	29-Jun-94	29-Jun-94	30-Jun-94	30-Jun-94	30-Jun-94	29-Jun-94
Test Group:METADD Units: mg/kg												
CESIUM	< 4.1 :J	< 8.4 :J	5.9 B:J	3.8 B:J	4 B:J	< 4.1 :J	< 4.4 :J	< 5.8 :J	< 4.3 :J	< 6 :J	< 6.2 :J	< 5.9 :J
LITHIUM	8.9 :J	9.6 :J	6.5 B:J	6.9 B:J	7.6 B:J	3.1 B:J	8.8 B:J	3.5 B:J	3 B:J	5.1 B:J	3.7 B:J	3.6 B:J
MOLYBDENUM	< .59 :J	< .79 :J	< 2.7 :J	< 2.6 :J	< 2.7 :J	1.8 B:V	4.1 B:V	1.9 B:V	1.1 B:V	6.3 B:V	1.5 B:V	2.9 B:V
STRONTIUM	21 :J	23.6 :J	15.2 B:J	16.7 B:J	16.4 B:J	10 B:J	19.6 B:J	7.8 B:J	9.7 B:J	12.8 B:J	11 B:J	10 B:J
TIN	< 1.7 :J	< 1.7 :J	< 2.1 :J	< 2 :J	< 2.1 :J	< 5.5 :J	< 2.3 :J	< 3.1 :J	< 2.2 :J	< 2.1 :J	< 2.2 :J	< 2.2 :J
Test Group:SMETCLP Units: mg/kg												
ALUMINUM	16300 :V	17800 :V	7590 :V	7910 :V	6600 :V	3400 :V	10000 :V	3640 :V	3610 :V	5490 :V	4290 :V	3450 :V
ANTIMONY	< 2.5 :R	< 2.6 :R	< 2.6 :J	< 2.5 :J	< 2.6 :J	< 2.7 :J	< 2.9 :J	< 2.5 :J	< 2.8 :J	< 2.6 :J	< 2.7 :J	< 2.6 :J
ARSENIC	7.5 :V	8.4 :V	4.6 :V	4.6 :V	3.6 :V	4.3 :V	5.8 :V	2.7 :V	4.3 :V	3.4 :V	4.8 :V	2.3 :V
BARIUM	83.9 :V	87.1 :V	52.7 :V	95.7 :V	69 :V	47.7 :V	89 :V	32.4 B:V	46.9 :V	59.9 :V	48 :V	33.1 B:V
BERYLLIUM	.96 :V	1.1 :V	< .5 :J	< .52 :J	< .46 :J	.27 B:V	.6 B:V	.22 B:V	.37 B:V	.39 B:V	.49 B:V	.16 B:V
CADMIUM	< .35 :V	< .36 :V	< .16 :R	.35 B:J	.33 B:J	< .17 :V	< 1.1 :J	< .42 :J	< .17 :V	.42 B:V	< .17 :V	< .34 :J
CALCIUM	7230 :J	10400 :J	2850 :V	3020 :V	2720 :V	1980 :V	3270 :V	1630 :V	1420 :V	3250 :V	2010 :V	1860 :V
CHROMIUM	15.6 :V	16.1 :V	18.4 :V	19.3 :V	15.4 :V	5.3 :V	18.9 :V	8.2 :V	6.2 :J	34.2 :J	6.8 :J	11.7 :V
COBALT	7.5 :V	6.8 :V	4.6 B:V	5.5 B:V	5 B:V	13 :V	7 B:V	2.9 B:V	< 3.7 :V	4.4 B:V	9.7 B:V	3.1 B:V
COPPER	< 12.7 :J	< 11.5 :J	21.5 :V	22 :V	20.4 :V	18.8 :V	25.2 :V	12.2 :V	10.4 :V	21 :V	13.1 :V	14.4 :V
IRON	13800 :V	14700 :V	12500 :V	13300 :V	14100 :V	7270 :V	15500 :V	7390 :V	8630 :V	12000 :V	9860 :V	8410 :V
LEAD	15.4 :V	17.6 :V	47.9 :V	55.5 :V	41.5 :V	5.1 :V	62.8 :V	21.4 :V	4.2 :J	24.9 :J	8.8 :J	31.2 :V
MAGNESIUM	1930 :V	2130 :V	2580 :V	2750 :V	2610 :V	1090 :V	3150 :V	1150 :V	994 B:V	1680 :V	1170 :V	1630 :V
MANGANESE	132 :J	133 :J	191 :V	352 :V	208 :V	135 :V	244 :V	129 :V	112 :V	185 :V	180 :V	141 :V
MERCURY	.1 :V	.096 :V	.07 B:V	.052 B:V	< .052 :V	< .05 :V	.06 :V	< .05 :V	< .052 :V	< .051 :V	< .047 :V	< .05 :V
NICKEL	21.6 :V	19.1 :V	12.7 :V	12.8 :V	11.9 :V	7.4 B:V	15.5 :V	< 6.3 :J	7.5 B:V	28 :V	9.4 :V	7.1 B:V
POTASSIUM	1480 :V	1530 :V	1230 :V	1340 :V	1530 :V	696 B:V	1900 :V	670 B:V	661 B:V	1210 :V	820 B:V	936 B:V
SELENIUM	< .58 :V	< .59 :V	< .55 :V	.72 B:V	.79 B:V	< .58 :V	.63 B:V	< .54 :V	< .6 :J	< .56 :V	< .58 :V	< .55 :V
SILVER	< 1.6 :J	< .96 :J	< .81 :V	.78 B:V	< .82 :V	8.8 :V	1.7 B:V	< .79 :V	< .87 :V	< .82 :V	< .85 :V	< .8 :V
SODIUM	242 :V	195 :V	252 B:V	273 B:V	221 B:V	51.1 B:V	197 B:V	128 B:V	< 51 :J	< 83.5 :J	< 49.4 :J	172 B:V
THALLIUM	< .76 :V	< .78 :V	< .43 :V	< .42 :V	< .44 :V	< .45 :V	< .48 :V	< .43 :V	< .47 :V	< .44 :V	< .45 :V	< .43 :V
VANADIUM	34 :V	36.6 :V	23.9 :V	26.2 :V	22.7 :V	15.8 :V	31.1 :V	13.3 :V	18.4 :V	17.6 :V	22.4 :V	14.3 :V
ZINC	33.2 :V	32.5 :V	240 :V	257 :V	296 :V	26.3 :J	322 :J	202 :J	19.2 :V	497 :V	23.9 :V	144 :J
Test Group:TRADS Units: pCi/g												
AMERICIUM-241	.014(.007) :V	.021(.009) :V	.092(.03) :V	.169(.031) :V	.132(.029) :V	.002(.004) J:V	.067(.019) :V	.116(.025) :V	.005(.005) J:V	.06(.016) :V	.006(.005) J:V	.061(.017) :V
CESIUM-134	.005(.014) J:V	.01(.016) J:V	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CESIUM-137	.042(.018) :V	.069(.031) X:V	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GROSS ALPHA	16.93(4.49) :V	13.71(4.13) :V	19.37(4.82) :V	22.82(5.37) :V	33.9(6.8) :V	19.61(4.85) :V	24.74(5.73) :V	22.82(5.37) :V	17.77(4.75) :V	24.33(5.6) :V	20.11(5.12) :V	16.48(4.49) :V
GROSS BETA	30.33(3.42) :V	50.12(4.78) :V	42.04(4.23) :V	40.46(4.11) :V	47.17(4.6) :V	35.78(3.78) :V	41.9(4.2) :V	44.35(4.37) :V	28.18(3.32) :V	40.26(4.12) :V	30.99(3.48) :V	44.42(4.39) :V
PLUTONIUM-239/240	.033(.014) :V	.067(.02) :V	.213(.048) :V	.225(.043) :V	.09(.037) :V	.028(.028) :R	.246(.137) :R	.077(.026) :V	-.001(.001) J:V	.177(.045) :V	.01(.007) :V	.111(.026) :V
RADIUM-226	1.481(.49) X:A	1.775(.474) X:A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RADIUM-228	1.735(.226) X:V	2.141(.269) X:V	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
STRONTIUM-89,90	.148(.053) :V	.102(.042) :V	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TRITIUM	79.67(206) J:V	-30.6(200) J:V	-1.93(206) J:V	-117(200) J:V	-27.1(205) J:V	-32.8(211) J:V	15.77(200) J:V	-68.6(209) J:V	168(221) J:V	3.863(213) J:V	13.52(213) J:V	-168(204) J:V
URANIUM-233,-234	.976(.307) :V	1.315(.361) :V	1.535(.253) :V	1.231(.245) :V	1.722(.323) :V	.939(.201) :V	1.599(.309) :V	1.184(.204) :V	.815(.154) :V	1.024(.191) :V	.73(.14) :V	.934(.209) :V
URANIUM-235	.032(.052) J:V	.033(.05) J:V	.049(.037) :V	.049(.043) J:V	.087(.059) :V	.029(.035) J:V	.048(.044) J:V	.054(.036) :V	.071(.039) :V	.067(.041) :V	.047(.031) :V	.022(.029) J:V
URANIUM-238	.874(.286) :V	1.264(.351) :V	1.379(.234) :V	1.443(.274) :V	1.537(.297) :V	.85(.189) :V	1.595(.308) :V	1.114(.195) :V	1.081(.186) :V	1.502(.249) :V	.865(.155) :V	1.496(.286) :V

TABLE C-4
Basefill Results Table
OU13-IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SS300193 BFG0001JE 22-Dec-93	SS300293 BFG0002JE 23-Dec-93
Test Group: METADD Units: mg/kg		
CESIUM	< 4.4 :J	< 6.7 :J
LITHIUM	5.5 :J	5.1 :J
MOLYBDENUM	< .59 :V	< .95 :J
STRONTIUM	13.6 :J	11.7 :J
TIN	< 1.8 :J	< 1.9 :J
Test Group: SMETCLP Units: mg/kg		
ALUMINUM	6350 :V	6190 :V
ANTIMONY	< 2.7 :R	< 2.7 :R
ARSENIC	3 :V	3.9 :V
BARIUM	50.8 :V	44.1 :V
BERYLLIUM	.47 :V	.39 :V
CADMIUM	< .37 :V	< .38 :V
CALCIUM	2330 :J	2340 :J
CHROMIUM	9 :V	8.6 :V
COBALT	18.7 :V	16.4 :V
COPPER	< 22.6 :J	< 14.2 :J
IRON	8550 :V	8810 :V
LEAD	6.5 :V	6 :V
MAGNESIUM	1780 :V	1590 :V
MANGANESE	83.2 :J	73 :J
MERCURY	< .053 :V	< .052 :V
NICKEL	11.8 :V	7.6 :V
POTASSIUM	1190 :V	1060 :V
SELENIUM	< .62 :V	< .63 :V
SILVER	9.5 :V	< 2.6 :J
SODIUM	168 :V	149 :V
THALLIUM	< .81 :V	< .83 :V
VANADIUM	16.3 :V	17.5 :V
ZINC	34.2 :V	23.1 :V
Test Group: TRADS Units: pCi/g		
AMERICIUM-241	.000351(.003) J:V	.004(.004) :V
CESIUM-134	.000372(.016) J:V	-.012(.017) J:V
CESIUM-137	.019(.017) J:V	-.006(.016) J:V
GROSS ALPHA	5.248(2.54) :V	10.94(3.51) :V
GROSS BETA	20.77(2.77) :V	25.39(3.07) :V
PLUTONIUM-239/240	.002(.004) J:V	(.004) J:V
RADIUM-226	1.338(.513) X:A	1.056(.46) X:A
RADIUM-228	1.241(.191) X:V	2.161(.272) X:V
STRONTIUM-89,90	NA	.154(.055) :V
TRITIUM	-2.78(202) J:V	88.92(206) J:V
URANIUM-233,-234	.607(.221) :V	.648(.242) :V
URANIUM-235	.029(.047) J:V	.047(.066) J:V
URANIUM-238	.684(.235) :V	.573(.226) :V

Notes:

mg/kg = milligrams per kilogram
pCi/g = picocuries per gram

TABLE C-6
Surface-Soil Results
OU13 - IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SS303693 SSG1729JE 27-Jun-94	SS303793 SSG1730JE 27-Jun-94	SS303893 SSG1731JE 28-Jun-94	SS303993 SSG1732JE 28-Jun-94	SS304093 SSG1733JE 22-Jun-94	SS304193 SSG1734JE 22-Jun-94	SS304293 SSG1735JE 23-Jun-94	SS304393 SSG1736JE 23-Jun-94
Test Group:METADD Units: mg/kg								
CESIUM	4.1 B:J	5.8 B:J	< 3.3 :J	6.4 B:J	5.9 B:J	4.1 B:J	4.2 B:J	4.4 B:J
LITHIUM	6.5 B:J	6.7 B:J	7.5 B:J	6.4 B:J	4.9 B:J	5.4 B:J	3.4 B:J	9.1 B:J
MOLYBDENUM	< 1.8 :J	< 2.4 :J	< 2.3 :J	5.1 B:V	< 2.1 :J	< 2.7 :J	< .69 :V	< 2.5 :J
STRONTIUM	6.4 B:J	5.8 B:J	6.5 B:J	30.5 B:J	11.8 B:J	15.6 B:J	10.3 B:J	16.5 B:J
TIN	< 2.2 :J	< 2 :J	< 2.1 :J	< 2.3 :J	< 2.1 :J	< 2.2 :J	< 2.2 :J	< 2.3 :J
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	5010 :V	4970 :V	5200 :V	10500 :V	5030 :V	8650 :V	3080 :V	12500 :V
ANTIMONY	< 2.7 :J	< 2.5 :J	< 2.7 :J	< 2.8 :J	< 2.6 :J	< 2.7 :J	< 2.7 :J	< 2.9 :J
ARSENIC	2.1 :V	1.9 :V	1.7 B:V	5.9 :V	2.4 :V	8.5 :V	2.2 :V	5.2 :V
BARIUM	43.5 :V	41.8 :V	50.5 :V	92.8 :V	94.8 :V	71.1 :V	38.1 B:V	111 :V
BERYLLIUM	< .26 :J	< .27 :J	< .27 :J	.89 B:V	< .36 :J	.79 B:V	< .27 :J	1.7 :V
CADMIUM	< .16 :V	< .15 :J	< .16 :V	< .17 :V	< .16 :R	.52 B:J	< .17 :R	.25 B:J
CALCIUM	1280 :V	1220 :V	1090 :V	19000 :V	2520 :V	2540 :V	2230 :V	2610 :V
CHROMIUM	9.5 :V	9.9 :V	9.2 :V	102 :V	8.7 :V	19.2 :V	5.9 :V	15.9 :V
COBALT	21.5 :V	8.4 B:V	7.5 B:V	29.9 :V	3.8 B:V	7 B:V	2.5 B:V	7 B:V
COPPER	15.1 :V	9.9 :V	10 :V	21.7 :V	14.7 :V	17.3 :V	9.1 :V	15.3 :V
IRON	8640 :V	9240 :V	9510 :V	15100 :V	9170 :V	15700 :V	5100 :V	14600 :V
LEAD	7.9 :V	7.3 :V	6.7 :V	10 :V	78.8 :V	18.6 :V	15.4 :V	17.5 :V
MAGNESIUM	1780 :V	1910 :V	2130 :V	2600 :V	1780 :V	2310 :V	1080 :V	2770 :V
MANGANESE	115 :V	161 :V	144 :V	213 :V	158 :V	221 :V	92.5 :V	261 :V
MERCURY	< .047 :V	< .047 :V	< .047 :V	< .058 :V	< .053 :V	< .052 :V	< .055 :V	< .054 :V
NICKEL	< 6.8 :J	< 7.2 :J	< 6.1 :J	97.6 :V	< 7.6 :J	16 :V	< 4.6 :J	13.3 :V
POTASSIUM	1500 :V	1670 :V	1760 :V	1390 :V	1320 :V	1210 :V	727 B:V	2060 :V
SELENIUM	< .58 :V	< .54 :V	< .57 :V	< .6 :V	.6 B:V	.66 B:V	< .58 :V	.75 B:V
SILVER	1.9 B:V	< .79 :V	< .83 :V	< .88 :V	< .81 :V	1.1 B:V	< .86 :V	.9 B:V
SODIUM	< 56.2 :J	116 B:V	141 B:V	161 B:V	< 68.4 :J	< 67 :J	< 63.3 :J	< 54.2 :J
THALLIUM	< .45 :V	< .43 :V	< .45 :V	< .47 :V	< .44 :V	< .45 :V	< .46 :V	< .48 :V
VANADIUM	16.2 :V	20.8 :V	15.9 :V	30.2 :V	17.6 :V	34.8 :V	9.4 B:V	29.5 :V
ZINC	47.3 :V	27.2 :V	27.6 :V	72.2 :V	132 :V	113 :V	87.3 :V	676 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	.009(.007) :V	.008(.006) :V	.184(.031) :V	.012(.007) :V	.032(.012) :V	.254(.039) :V	.032(.013) :V	.042(.013) :V
GROSS ALPHA	32.28(6.59) :V	31.75(6.49) :V	28.65(6.16) :V	16.72(4.66) :V	26.5(5.79) :V	22.83(5.43) :V	21.33(5.16) :V	18.9(4.8) :V
GROSS BETA	50.64(5.92) :V	47.36(5.68) :V	49.46(4.73) :V	33.12(3.63) :V	41.92(5.28) :V	45.36(5.51) :V	34.08(4.67) :V	33.99(4.68) :V
PLUTONIUM-239/240	.01(.009) :V	.006(.007) :V	.006(.005) :V	.024(.012) :V	.08(.03) :V	.193(.051) :V	.012(.015) J:V	.18(.051) :V
TRITIUM	-75.9(200) J:V	144.2(209) J:V	52.19(209) J:V	25.13(207) J:V	43.28(205) J:V	-54.8(201) J:V	184.6(212) J:V	-52.9(199) J:V
URANIUM-233,-234	1.639(.265) :V	1.846(.339) :V	1.753(.286) :V	1.059(.188) :V	1.404(.269) :V	1.545(.294) :V	1.02(.207) :V	.914(.213) :V
URANIUM-235	.096(.049) :V	.08(.056) :V	.125(.059) :V	.038(.03) :V	.067(.049) :V	.082(.057) :V	.064(.046) :V	.372(.125) :V
URANIUM-238	1.584(.258) :V	1.87(.342) :V	1.57(.264) :V	1.007(.181) :V	1.609(.296) :V	4.132(.621) :V	1.019(.207) :V	.863(.205) :V

TABLE C-5
Surface-Soil Results
OU13 - IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SS304493 SSG1737JE 23-Jun-94	SS304593 SSG1738JE 23-Jun-94	SS304593 SSG1820JE 23-Jun-94	SS304693 SSG1739JE 27-Jun-94
Test Group:METADD Units: mg/kg				
CESIUM	4.2 B:J	4.2 B:J	6.4 B:J	6 B:J
LITHIUM	4.7 B:J	4.2 B:J	5.1 B:J	5.3 B:J
MOLYBDENUM	< 2 :J	< 1.5 :J	< 1.5 :J	< 1.9 :J
STRONTIUM	10.5 B:J	11.2 B:J	12.1 B:J	14.8 B:J
TIN	< 2.2 :J	< 2.2 :J	< 2.2 :J	< 2.1 :J
Test Group:SMETCLP Units: mg/kg				
ALUMINUM	6130 :V	4500 :V	5150 :V	6580 :V
ANTIMONY	< 2.7 :J	< 2.8 :J	< 2.8 :J	< 2.6 :J
ARSENIC	3.6 :V	2.7 :V	3.1 :V	5.5 :V
BARIUM	56 :V	36.1 B:V	39.7 B:V	60.8 :V
BERYLLIUM	< .44 :J	< .38 :J	< .36 :J	< .55 :J
CADMIUM	< .16 :R	< .17 :J	< .17 :R	< .16 :V
CALCIUM	1700 :V	4370 :V	5180 :V	2890 :V
CHROMIUM	9.8 :V	8 :V	9.6 :V	9 :V
COBALT	3.9 B:V	3 B:V	3.6 B:V	5.5 B:V
COPPER	90.2 :V	287 :V	13 :V	11.9 :V
IRON	9030 :V	7160 :V	8530 :V	11000 :V
LEAD	43.9 :V	29.4 :V	41.7 :V	8.6 :V
MAGNESIUM	1800 :V	1150 :V	1300 :V	1630 :V
MANGANESE	136 :V	99.8 :V	118 :V	127 :V
MERCURY	< .053 :V	< .05 :V	< .052 :V	< .05 :V
NICKEL	< 9.4 :J	< 5.5 :J	< 6.5 :J	< 10.9 :J
POTASSIUM	1020 B:V	1310 :V	1400 :V	1130 :V
SELENIUM	< .57 :V	< .59 :V	< .6 :V	.65 B:V
SILVER	< .84 :V	< .87 :V	< .88 :V	< .83 :V
SODIUM	< 111 :J	< 91.6 :J	< 92.5 :J	173 B:V
THALLIUM	< .45 :V	< .46 :V	< .47 :V	< .44 :V
VANADIUM	18.8 :V	13 :V	15.4 :V	22.9 :V
ZINC	1080 :V	57.9 :V	52.9 :V	31.1 :V
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	.077(.02) :V	.12(.026) :V	.044(.015) :V	.009(.007) :V
GROSS ALPHA	22.87(5.3) :V	25.72(5.73) :V	20.59(5.03) :V	18.93(4.89) :V
GROSS BETA	40.64(5.18) :V	37.79(4.97) :V	43.74(5.42) :V	34.78(4.72) :V
PLUTONIUM-239/240	.139(.039) :V	.642(.113) :V	.139(.032) :V	(.012) J:V
TRITIUM	6.732(203) J:V	-26.9(201) J:V	-86.6(200) J:V	11.54(204) J:V
URANIUM-233,-234	1.224(.254) :V	1.342(.259) :V	1.242(.266) :V	1.099(.202) :V
URANIUM-235	.073(.052) :V	.025(.032) J:V	.039(.043) J:V	.043(.034) :V
URANIUM-238	1.365(.273) :V	1.191(.238) :V	1.136(.25) :V	1.16(.21) :V

TABLE C-6
Surface-Soil Results
OU13 - IHSS 186

Sample Location: Sample Identification Number: Date Sampled:	MDL	PRG† / BKGND‡	SS304793 SSG1740JE 21-Jun-94	SS304893 SSG1741JE 21-Jun-94	SS304993 SSG1742JE 21-Jun-94	SS305093 SSG1743JE 21-Jun-94	SS305193 SSG1744JE 21-Jun-94	SS305293 SSG1745JE 21-Jun-94
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	0	2.37E 0 / 6.34E-2	.018(.009) :V	.456(.062) :V#	.178(.032) :V#	.168(.03) :V#	.057(.018) :V	.078(.019) :V#
GROSS ALPHA	0	0.00E 0 / 44.56E 0	21.24(5.11) :V	23.65(5.45) :V	26.72(5.82) :V	20.48(5.02) :V	24.35(5.6) :V	17.46(4.55) :V
GROSS BETA	0	0.00E 0 / 55.35E 0	32.53(4.57) :V	41.46(5.23) :V	36.16(4.81) :V	41.19(5.21) :V	57.55(6.4) :V#	33.44(4.6) :V
PLUTONIUM-239/240	0	3.42E 0 / 13.21E-2	.09(.028) :V	.425(.081) :V#	.111(.045) :V	.211(.047) :V#	.084(.025) :V	.315(.088) :V#
TRITIUM	0	0.00E 0 / 545.96E 0	127(209) J:V-	124.1(209) J:V-	-25(201) J:V-	-69.3(200) J:V-	-97.2(199) J:V-	100(207) J:V-
URANIUM-233,-234	0	4.47 E 1 / 17.69E-1	1.409(.249) :V	1.265(.266) :V	1.164(.223) :V	1.369(.259) :V	1.594(.285) :V	1.147(.236) :V
URANIUM-235	0	1.73E-1 / 19.83E-2	.101(.053) :V	.078(.055) :V	.083(.051) :V	.084(.053) :V	.086(.051) :V	.057(.046) :V
URANIUM-238	0	4.60E 1 / 19.12E-1	1.42(.25) :V	1.973(.362) :V#	2.521(.389) :V#	3.33(.501) :V#	2.086(.346) :V#	1.204(.243) :V

TABLE C-6
Surface-Soil Results
OU13 - IHSS 186

Sample Location: Sample Identification Number: Date Sampled:	SS305393 SSG1746JE 20-Jun-94	SS305493 SSG1747JE 20-Jun-94	SS305593 SSG1748JE 20-Jun-94	SS305693 SSG1749JE 20-Jun-94	SS305693 SSG1816JE 34505	SS305793 SSG1750JE 34505
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	1.045(.131) :V#	.166(.031) :V#	1.464(.176) :V#	.221(.034) :V#	.237(.038) :V#	.076(.021) :V#
GROSS ALPHA	26.49(5.83) :V	25.89(5.8) :V	30.65(6.41) :V	24.12(5.52) :V	25.61(5.73) :V	20.72(5.06) :V
GROSS BETA	58.25(6.47) :V#	39.25(5.06) :V	40.86(5.19) :V	38.87(5.04) :V	38.56(5.01) :V	44.98(5.49) :V
PLUTONIUM-239/240	1.504(.175) :V#	.69(.099) :V#	7.663(.935) :V#	1.287(.177) :V#	1.78(.2) :V#	.226(.044) :V#
TRITIUM	4.812(204) J:V-	16.36(205) J:V-	-17.3(203) J:V-	2.886(202) J:V-	13.47(203) J:V-	-80.8(200) J:V-
URANIUM-233,-234	1.662(.329) :V	1.645(.265) :V	1.361(.308) :A	1.323(.27) :V	1.289(.24) :V	1.231(.234) :V
URANIUM-235	.087(.063) :V	.075(.044) :V	.105(.074) :A	.058(.048) :V	.058(.042) :V	.083(.049) :V
URANIUM-238	3.53(.577) :V#	1.517(.249) :V	1.908(.388) :A	1.684(.32) :V	1.703(.292) :V	1.377(.252) :V

† DOE 1994b
‡ DOE 1994d

TABLE C-7
Surface-Soil Results
OU13 - IHSS 128

Sample Location:	**SS302293**
Sample Identification Number:	**SSG1715JE**
Date Sampled:	**13-Jun-94**
Test Group:SMETCLP Units: mg/kg	
LITHIUM	4.9 B:V
MAGNESIUM	2090 :V
Test Group:TRADS Units: pCi/g	
AMERICIUM-241	.044(.014) :V
GROSS ALPHA	24.89(5.75) :V
GROSS BETA	41.82(5.26) :V
PLUTONIUM-239/240	.087(.027) :V
TRITIUM	191.5(207) J:V
URANIUM-233,-234	1.196(.182) :V
URANIUM-235	.076(.036) :V
URANIUM-238	1.381(.202) :V
Test Group:WQPL Units: %REC	
% SOLIDS BY WEIGHT	97 :V

TABLE C-8
Surface-Soil Results
OU13 - IHSS 134N

Sample Location: Sample Identification Number: Date Sampled:	SS302093 SSG1713JE 8-Jun-94	SS302193 SSG1714JE 8-Jun-94	SS310393 SSG1798JE 18-Jul-94
Test Group:METADD Units: mg/kg			
CESIUM	NA	NA	< 3.5 :R
LITHIUM	NA	NA	15.8 B:J
MOLYBDENUM	NA	NA	5.8 B:J
STRONTIUM	NA	NA	413 :J
TIN	NA	NA	< 2.3 :J
Test Group:SMETCLP Units: mg/kg			
ALUMINUM	NA	NA	15100 :V
ANTIMONY	NA	NA	< 2.8 :J
ARSENIC	NA	NA	2.4 :V
BARIUM	NA	NA	38.4 B:V
BERYLLIUM	NA	NA	.37 B:V
CADMIUM	NA	NA	< .17 :V
CALCIUM	NA	NA	18100 :V
CHROMIUM	NA	NA	14.3 :J
COBALT	NA	NA	13.5 :V
COPPER	NA	NA	72 :V
IRON	NA	NA	31700 :V
LEAD	NA	NA	9.5 :J
LITHIUM	8.1 B:V	11.8 B:V	NA
MAGNESIUM	2950 :V	8020 :V	18400 :V
MANGANESE	NA	NA	780 :V
MERCURY	NA	NA	< .052 :V
NICKEL	NA	NA	30.3 :V
POTASSIUM	NA	NA	1630 :V
SELENIUM	NA	NA	< 1.6 :J
SILVER	NA	NA	2.9 :J
SODIUM	NA	NA	2850 :V
THALLIUM	NA	NA	< .48 :V
VANADIUM	NA	NA	49 :V
ZINC	NA	NA	57 :V
Test Group:TRADS Units: pCi/g			
AMERICIUM-241	.066(.018) :V	.202(.038) :V	NA
GROSS ALPHA	27.56(5.99) :V	22.99(5.37) :V	NA
GROSS BETA	38.57(5.01) :V	36.92(4.93) :V	NA
PLUTONIUM-239/240	.183(.037) :V	.083(.024) :V	NA
TRITIUM	18.28(203) J:V	-23.1(215) J:V	NA
URANIUM-233,-234	1.414(.225) :V	1.222(.258) :V	NA
URANIUM-235	.06(.037) :V	.059(.048) :V	NA
URANIUM-238	1.626(.249) :V	1.251(.261) :V	NA
Test Group:VOA8240 Units: µg/kg			
1,1,1-TRICHLOROETHANE	NA	NA	< 5 :V
1,1,2,2-TETRACHLOROETHANE	NA	NA	< 5 :V
1,1,2-TRICHLOROETHANE	NA	NA	< 5 :V
1,1-DICHLOROETHANE	NA	NA	< 5 :V
1,1-DICHLOROETHENE	NA	NA	< 5 :V
1,2-DICHLOROETHANE	NA	NA	< 5 :V
1,2-DICHLOROPROPANE	NA	NA	< 5 :V
2-BUTANONE	NA	NA	< 110 :V
2-CHLOROETHYL VINYL ETHER	NA	NA	< 11 :V
2-HEXANONE	NA	NA	< 54 :V
4-METHYL-2-PENTANONE	NA	NA	< 54 :V
ACETONE	NA	NA	< 110 :J
BENZENE	NA	NA	< 5 :V
BROMODICHLOROMETHANE	NA	NA	< 5 :V
BROMOFORM	NA	NA	< 5 :V
BROMOMETHANE	NA	NA	< 11 :V
CARBON DISULFIDE	NA	NA	< 5 :V
CARBON TETRACHLORIDE	NA	NA	< 5 :V
CHLOROBENZENE	NA	NA	< 5 :V
CHLOROETHANE	NA	NA	< 11 :J
CHLOROFORM	NA	NA	< 5 :V
CHLOROMETHANE	NA	NA	< 11 :V
DIBROMOCHLOROMETHANE	NA	NA	< 5 :V
ETHYLBENZENE	NA	NA	< 5 :V
METHYLENE CHLORIDE	NA	NA	< 5 :V
STYRENE	NA	NA	< 5 :V
TETRACHLOROETHENE	NA	NA	< 5 :V
TOLUENE	NA	NA	< 5 :V
TOTAL XYLENES	NA	NA	< 5 :V
TRICHLOROETHENE	NA	NA	< 5 :V
VINYL ACETATE	NA	NA	< 54 :V
VINYL CHLORIDE	NA	NA	< 11 :V
cis-1,3-DICHLOROPROPENE	NA	NA	< 5 :V
trans-1,2-DICHLOROETHENE	NA	NA	< 5 :V
trans-1,3-DICHLOROPROPENE	NA	NA	< 5 :V
Test Group:WQPL Units:%REC			
% SOLIDS BY WEIGHT	96.3 :V	97.5 :V	NA

TABLE C-9
Surface-Soil Results
OU13 - IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SS302593 SSG1718JE 14-Jun-94	SS302693 SSG1719JE 14-Jun-94	SS302793 SSG1720JE 14-Jun-94	SS302893 SSG1721JE 14-Jun-94	SS302993 SSG1722JE 15-Jun-94	SS302993 SSG1813JE 15-Jun-94	SS303093 SSG1723JE 15-Jun-94	SS303193 SSG1724JE 16-Jun-94
Test Group:SMETCLP Units: mg/kg								
LITHIUM	4.1 B:V	4.9 B:V	7.2 B:V	4.9 B:V	4.7 B:V	7.2 B:V	7.2 B:V	4.8 B:V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	.099(.024) :V	.044(.015) :V	.109(.024) :V	.056(.016) :V	.032(.013) :V	.018(.01) :V	.116(.025) :V	.065(.019) :V
GROSS ALPHA	24.21(5.52) :V	38.29(7.32) :V	27.42(6.08) :V	17.67(4.84) :V	24.49(5.49) :V	21.09(5.12) :V	41.21(7.65) :V	21.52(5.23) :V
GROSS BETA	46.15(5.58) :V	58.06(6.43) :V	41.76(5.26) :V	43.79(5.38) :V	32.13(4.51) :V	36.73(4.89) :V	35.48(4.78) :V	47.87(5.7) :V
PLUTONIUM-239/240	.313(.081) :V	.076(.024) :V	.376(.059) :V	.237(.053) :V	.062(.023) :V	.047(.023) :V	.465(.083) :V	.135(.042) :V
TRITIUM	88.51(201) J:V	205.9(207) J:V	283.8(212) :V	125.1(203) J:V	53.87(199) X:V	95.23(202) X:V	-19.2(196) J:V	-39.5(202) J:V
URANIUM-233,-234	1.205(.245) :V	1.971(.279) :V	1.538(.243) :V	1.327(.208) :V	1.563(.258) :V	1.247(.312) :A	3.5(.497) :V	.906(.24) :V
URANIUM-235	.054(.045) :V	.101(.045) :V	.073(.041) :V	.046(.031) :V	.075(.045) :V	.069(.067) J:A	.168(.07) :V	.009(.023) J:V
URANIUM-238	1.77(.316) :V	1.945(.275) :V	1.679(.258) :V	1.558(.232) :V	2.002(.309) :V	1.426(.34) :A	1.473(.256) :V	1.372(.31) :V
Test Group:WQPL Units: %REC								
% SOLIDS BY WEIGHT	92.1 :V	96 :V	94.5 :V	92.2 :V	93.3 :V	92.7 :V	92.9 :V	91.7 :V

TABLE C-9
Surface-Soil Results
OU13 - IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SS303293 SSG1725JE 16-Jun-94	SS303393 SSG1726JE 16-Jun-94	SS303493 SSG1727JE 16-Jun-94	SS303593 SSG1728JE 16-Jun-94
Test Group:SMETCLP Units: mg/kg				
LITHIUM	5 B:V	5.1 B:V	5.3 B:V	5 B:V
Test Group:TRADS Units: pCi/g				
AMERICIUM-241	.003(.005) J:V	.01(.006) :V	.009(.007) :V	.005(.004) :V
GROSS ALPHA	31.81(6.56) :V	33.1(6.68) :V	23.96(5.58) :V	37.94(7.29) :V
GROSS BETA	48.77(5.77) :V	49.3(5.82) :V	41.7(5.24) :V	59.17(6.53) :V
PLUTONIUM-239/240	.014(.01) :V	.032(.014) :V	.014(.011) :V	.008(.007) :V
TRITIUM	39.48(206) J:V	29.85(206) J:V	269.6(218) :V	-30.8(203) J:V
URANIUM-233,-234	1.415(.267) :V	1.512(.246) :V	1.785(.315) :V	2.874(.484) :V
URANIUM-235	.055(.044) :V	.133(.058) :V	.086(.055) :V	.127(.072) :V
URANIUM-238	1.373(.26) :V	1.32(.224) :V	1.612(.293) :V	2.894(.487) :V
Test Group:WQPL Units: %REC				
% SOLIDS BY WEIGHT	92.3 :V	91.1 :V	92.4 :V	93.4 :V

TABLE C-10
Surface-Soil Results
OU13 - IHSS 171

Sample Location: Sample Identification Number: Date Sampled:	SS301793 SSG1710JE 9-Jun-94	SS301893 SSG1711JE 8-Jun-94	SS301993 SSG1712JE 8-Jun-94	SS302393 SSG1716JE 8-Jun-94	SS302393 SSG1806JE 8-Jun-94	SS302493 SSG1717JE 9-Jun-94	SS302493 SSG1808JE 9-Jun-94
Test Group:SMETCLP Units: mg/kg							
LITHIUM	4.2 B:V	7.7 B:V	5.3 B:V	2.9 B:V	2.8 B:V	4.3 B:V	4.4 B:V
MAGNESIUM	2010 :V	5100 :V	2090 :V	1450 :V	1540 :V	2030 :V	2020 :V
Test Group:TRADS Units: pCi/g							
AMERICIUM-241	.029(.012) :V	.011(.007) :V	.015(.009) :V	.031(.013) :V	.022(.011) :V	.097(.022) :V	.121(.027) :V
GROSS ALPHA	14.96(4.51) :V	17.44(4.72) :V	19.33(4.84) :V	18.46(4.81) :V	16.82(4.47) :V	17.42(4.88) :V	23.78(5.61) :V
GROSS BETA	38.68(5.07) :V	30.11(4.37) :V	45.93(5.56) :V	44.37(5.5) :V	42.53(5.35) :V	38.1(4.98) :V	41.35(5.26) :V
PLUTONIUM-239/240	.127(.037) :V	.039(.015) :V	.037(.019) :V	.048(.02) :V	.041(.015) :V	.135(.038) :V	.106(.024) :V
TRITIUM	30.79(204) J:V	59.66(205) J:V	114.5(222) J:V	40.43(218) J:V	162.6(211) J:V	-1.92(202) J:V	109.7(208) J:V
URANIUM-233,-234	1.143(.195) :V	1.181(.216) :V	1.232(.304) :A	1.256(.273) :V	1.149(.194) :V	1.094(.214) :V	1.155(.222) :V
URANIUM-235	.041(.031) :V	.052(.037) :V	.048(.059) J:A	.012(.029) J:V	.039(.03) :V	.044(.04) J:V	.049(.04) :V
URANIUM-238	.95(.171) :V	1.376(.239) :V	1.029(.271) :A	1.074(.246) :V	1.223(.202) :V	.996(.201) :V	1.152(.221) :V
Test Group:WQPL Units:%REC							
% SOLIDS BY WEIGHT	95.7 :V	88.6 :V	93.1 :V	96.7 :V	96.8 :V	96.1 :V	96.1 :V

Notes:

mg/kg = milligrams per kilogram
pCi/g = picocuries per gram

TABLE C-11
Surface-Soil Results
OU13 - Outside IHSS Boundaries

Sample Location: Sample Identification Number: Date Sampled:	SS301493 SSG1707JE 13-Jun-94	SS301593 SSG1708JE 13-Jun-94	SS301693 SSG1709JE 13-Jun-94
Test Group:SMETCLP Units: mg/kg			
LITHIUM	12.9 B:V	7.5 B:V	4.8 B:V
MAGNESIUM	10300 :V	4720 :V	3480 :V
Test Group:TRADS Units: pCi/g			
AMERICIUM-241	.291(.043) :V	.061(.016) :V	.252(.039) :V
GROSS ALPHA	18.1(4.76) :V	15.37(4.28) :V	17.91(4.65) :V
GROSS BETA	42.81(5.34) :V	40.78(5.2) :V	39.73(5.1) :V
PLUTONIUM-239/240	1.744(.198) :V	.136(.043) :V	.583(.077) :V
TRITIUM	53.88(199) J:V	122.2(203) J:V	161.7(205) J:V
URANIUM-233,-234	1.26(.206) :V	1.323(.226) :V	1.044(.173) :V
URANIUM-235	.05(.033) :V	.069(.042) :V	.071(.037) :V
URANIUM-238	1.468(.23) :V	1.356(.23) :V	1.305(.203) :V

TABLE C-12
Surface-Soil Results
OU13 - IHSS 148

Sample Location:	SS306793	SS306893	SS306993	SS306993	SS307093	SS307193	SS307293	SS307393	SS307493
Sample Identification Number:	SSG1771JE	SSG1761JE	SSG1762JE	SSG1828JE	SSG1763JE	SSG1764JE	SSG1765JE	SSG1766JE	SSG1767JE
Date Sampled:	6-Jul-94	5-Jul-94	5-Jul-94	5-Jul-94	5-Jul-94	6-Jul-94	6-Jul-94	5-Jul-94	7-Jul-94
Test Group:METADD Units: mg/kg									
CESIUM	< 6.6 :J	3.9 B:J	8.2 B:J	4.2 B:J	4.1 B:J	< 5.9 :J	< 5.8 :J	4 B:J	< 7.3 :J
LITHIUM	6.6 B:J	7.8 B:J	13.1 B:J	12.2 B:J	6.8 B:J	8.3 B:J	6 B:J	7.3 B:J	7.8 B:J
MOLYBDENUM	2.6 B:V	3.7 B:V	5.4 B:J	5.1 B:V	4.6 B:V	2.9 B:V	1.4 B:V	4.1 B:V	3 B:V
STRONTIUM	18.8 B:J	17.7 B:J	50.2 :J	49 :J	19.1 B:J	31 B:J	10.7 B:J	22.6 B:J	25.5 B:J
TIN	< 2.3 :J	< 2.1 :J	< 2.2 :J	< 2.2 :J	< 2.1 :J	< 2.1 :J	< 2 :J	< 2.1 :J	< 2.5 :J
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	13200 :V	11600 I:J	15100 I:J	13200 I:J	11100 I:J	7890 :V	4880 :V	10700 I:J	10700 :V
ANTIMONY	< 2.9 :J	< 2.6 :J	< 2.7 :J	4.1 B:J	< 2.7 :J	< 2.6 :J	< 2.5 :J	< 2.7 :J	< 3.2 :J
ARSENIC	9.7 :V	7.5 :V	7.3 :V	6.6 :V	8.4 :V	4.7 :V	3 :V	5.9 :V	6.6 :V
BARIUM	81.1 :V	70.3 I:J	111 I:J	108 I:J	82.4 I:J	81.7 :V	64.1 :V	95.1 I:J	85.8 :V
BERYLLIUM	1.2 :V	.73 B:V	.63 B:V	.59 B:V	.85 B:V	.46 B:V	.36 B:V	.74 B:V	.56 B:V
CADMIUM	< .17 :V	< .33 :J	< .87 :J	< .86 :J	< .68 :J	.82 B:V	.7 B:V	< .71 :J	1.6 :V
CALCIUM	2770 :V	3460 :V	5370 :V	5200 :V	4330 :V	4780 :V	1430 :V	4990 :V	9370 :V
CHROMIUM	16.9 :J	23.4 :V	75.9 :V	64.2 :V	42.1 :V	32.5 :J	19.1 :J	33.8 :V	95.6 :J
COBALT	28.7 :V	5.7 B:V	8.8 B:V	8.5 B:V	8.3 B:V	6.3 B:V	11.3 :V	6.6 B:V	12.1 :V
COPPER	17.2 :V	15.7 :V	43.4 :V	38.9 :V	25.1 :V	38.1 :V	15.1 :V	22.7 :V	145 :V
IRON	15000 :V	13900 I:J	18700 I:J	17300 I:J	17900 I:J	14900 :V	9000 :V	15200 I:J	14200 :V
LEAD	16.4 :J	53 :V	62.4 :V	50.3 :V	152 :V	65.6 :J	12 :J	128 :V	118 :J
MAGNESIUM	1580 :V	2100 I:J	4580 I:J	4420 I:J	2170 I:J	3490 :V	1370 :V	2430 I:J	2530 :V
MANGANESE	129 :V	164 I:J	323 I:J	283 I:J	190 I:J	234 :V	143 :V	195 I:J	240 :V
MERCURY	.11 :V	.051 B:V	< .048 :V	.052 B:V	.066 B:V	< .046 :V	< .046 :V	.078 B:V	< .061 :V
NICKEL	13.9 :V	12.7 :V	30.2 :V	27.5 :V	14.4 :V	17.2 :V	11.3 :V	14.3 :V	52.4 :V
POTASSIUM	1260 :V	1580 I:J	3390 I:J	3260 I:J	1850 I:J	2850 :V	1170 :V	1980 I:J	1500 :V
SELENIUM	< .84 :J	.57 B:V	1.3 :V	1.1 :V	.72 B:V	< 1.1 :J	< .54 :V	.69 B:V	< 1.5 :J
SILVER	3.3 :J	1.3 B:V	1.6 B:V	1.3 B:V	1.5 B:V	1.3 B:J	< .8 :V	1.6 B:V	1.5 B:J
SODIUM	< 76.8 :J	480 B:V	87.6 B:J	100 B:V	109 B:V	117 B:V	< 65.2 :J	98.8 B:V	< 111 :J
THALLIUM	< .48 :V	< .43 :V	< .45 :V	< .46 :V	< .45 :V	< .43 :J	< .43 :V	< .45 :V	< .53 :V
VANADIUM	40.1 :V	31.6 I:J	37 I:J	33.9 I:J	34.4 I:J	26.7 :V	14.4 :V	31.3 I:J	36.4 :V
ZINC	32.5 :V	65.7 :V	302 :V	270 :V	113 :V	170 :V	50.4 :V	134 :V	1220 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	.125(.025) :V	.028(.012) :V	.052(.015) :V	.027(.011) :V	.025(.01) :V	.028(.011) :V	.046(.016) :V	.034(.012) :V	.121(.025) :V
GROSS ALPHA	22.15(5.28) :V	29.26(6.26) :V	23.54(5.48) :V	25.78(5.73) :V	27.07(5.86) :V	19.76(4.96) :V	29.7(6.21) :V	23.53(5.43) :V	34.75(6.92) :V
GROSS BETA	34.44(3.7) :V	42.85(4.27) :V	38.85(3.99) :V	39.97(4.07) :V	37.84(3.95) :V	39.76(4.08) :V	38.38(3.97) :V	41.12(4.16) :V	48.54(4.67) :V
PLUTONIUM-239/240	.018(.012) :V	.04(.017) :V	.104(.033) :V	.09(.024) :V	.161(.033) :V	.07(.02) :V	.069(.082) :R	.169(.04) :V	.152(.031) :V
TRITIUM	-30.9(204) J:V	-18.3(211) J:V	-9.65(212) J:V	-82(208) J:V	39.56(214) J:V	145.7(223) J:V	67.65(203) J:V	-108(207) J:V	-21.2(205) J:V
URANIUM-233,-234	1.518(.276) :V	1.503(.271) :V	1.609(.24) :V	1.681(.25) :V	1.328(.218) :V	1.833(.278) :V	2.04(.396) :V	1.184(.296) :A	1.596(.261) :V
URANIUM-235	.026(.03) J:V	.083(.051) :V	.037(.028) :V	.076(.039) :V	.085(.043) :V	.093(.046) :V	.053(.053) J:V	.031(.045) J:A	.092(.048) :V
URANIUM-238	1.461(.268) :V	1.592(.282) :V	1.567(.236) :V	1.715(.253) :V	1.547(.243) :V	1.808(.275) :V	1.543(.326) :V	1.426(.333) :A	1.843(.29) :V

TABLE C-12
Surface-Soil Results
OU13 - IHSS 148

Sample Location: Sample Identification Number: Date Sampled:	SS307693 SSG1768JE 7-Jul-94	SS307693 SSG1769JE 7-Jul-94	SS307793 SSG1770JE 7-Jul-94
Test Group:METADD Units: mg/kg			
CESIUM	< 8.1 :J	< 7.1 :J	< 6.2 :J
LITHIUM	5 B:J	7.8 B:J	6.6 B:J
MOLYBDENUM	1.5 B:V	3.1 B:V	1.7 B:V
STRONTIUM	15.4 B:J	94.7 :J	21 B:J
TIN	< 2.1 :J	< 2.5 :J	< 2.2 :J
Test Group:SMETCLP Units: mg/kg			
ALUMINUM	4950 :V	12400 :V	7370 :V
ANTIMONY	< 2.7 :J	< 3.1 :J	< 2.7 :J
ARSENIC	2.3 :J	7.2 :V	4.3 :V
BARIUM	61.5 :V	203 :V	65.1 :V
BERYLLIUM	.38 B:V	.77 B:V	.49 B:V
CADMIUM	.34 B:V	< .19 :V	< .16 :V
CALCIUM	2290 :V	4580 :V	4710 :V
CHROMIUM	42.5 :J	40.5 :J	20.6 :J
COBALT	3.6 B:V	9.2 B:V	4.6 B:V
COPPER	12 :V	19.8 :V	14.6 :V
IRON	8870 :V	17200 :V	11000 :V
LEAD	165 :J	44.3 :J	40.6 :J
MAGNESIUM	1610 :V	2960 :V	2060 :V
MANGANESE	171 :V	356 :V	161 :V
MERCURY	.06 B:V	< .056 :V	< .045 :V
NICKEL	7.4 B:V	11 :V	11.8 :V
POTASSIUM	1740 :V	2190 :V	1750 :V
SELENIUM	< .6 :J	< 1.5 :J	< .58 :V
SILVER	< .83 :V	< .97 :V	< .84 :V
SODIUM	142 B:V	139 B:V	< 88.5 :J
THALLIUM	< .45 :V	< .52 :V	< .45 :V
VANADIUM	16.3 :V	35.4 :V	21.7 :V
ZINC	85.5 :V	133 :V	80.6 :V
Test Group:TRADS Units: pCi/g			
AMERICIUM-241	.197(.032) :V	.188(.034) :V	.092(.021) :V
GROSS ALPHA	27.54(5.98) :V	15.78(4.38) :V	33.46(6.75) :V
GROSS BETA	47.82(4.6) :V	34.51(3.71) :V	42.79(4.3) :V
PLUTONIUM-239/240	.026(.012) :V	.045(.016) :V	.08(.077) J:R
TRITIUM	-51.1(203) J:V	-57.9(203) J:V	7.721(206) J:V
URANIUM-233,-234	1.769(.262) :V	1.881(.281) :V	1.656(.283) :V
URANIUM-235	.066(.038) :V	.049(.033) :V	.081(.049) :V
URANIUM-238	1.65(.249) :V	2.14(.309) :V	1.506(.263) :V

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SS300393 SSG1696JE 7-Jun-94	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300593 SSG1698JE 7-Jun-94	SS300693 SSG1699JE 7-Jun-94	SS300793 SSG1700JE 6-Jun-94	SS300893 SSG1701JE 6-Jun-94	SS300893 SSG1802JE 6-Jun-94	SS300993 SSG1702JE 6-Jun-94
Test Group:BNACLP Units: µg/kg									
1,2,4-TRICHLOROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
1,2-DICHLOROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
1,3-DICHLOROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
1,4-DICHLOROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2,4,5-TRICHLOROPHENOL	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
2,4,6-TRIBROMOPHENOL	69 :Y	73 :Y	71 :Y	49 :Y	47 :Y	57 :Y	53 :Y	63 :Y	56 :Y
2,4,6-TRICHLOROPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2,4-DICHLOROPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2,4-DIMETHYLPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2,4-DINITROPHENOL	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
2,4-DINITROTOLUENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2,6-DINITROTOLUENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2-CHLORONAPHTHALENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2-CHLOROPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2-FLUOROBIPHENYL	77 :Y	81 :Y	78 :Y	55 :Y	52 :Y	67 :Y	61 :Y	69 :Y	65 :Y
2-METHYLNAPHTHALENE	< 340 :Y	220 J:Y	86 DJ:Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2-METHYLPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
2-NITROANILINE	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
2-NITROPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
3,3'-DICHLOROBENZIDINE	< 680 :Y	< 690 :Y	< 1400 :Y	< 680 :Y	< 690 :Y	< 750 :Y	< 700 :Y	< 700 :Y	< 690 :Y
3-NITROANILINE	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
4,6-DINITRO-2-METHYLPHENOL	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
4-CHLORO-3-METHYLPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
4-CHLOROANILINE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
4-CHLOROPHENYL PHENYL ETHER	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
4-METHYLPHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
4-NITROANILINE	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
4-NITROPHENOL	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	< 1700 :Y
4H-Cyclopenta(def)phenanthrene	340 J:Y	980 J:Y	510 J:Y	140 J:Y	NA	NA	NA	NA	NA
9,10-Anthracenedione	230 J:Y	NA	NA	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	230 J:Y	1000 :Y	560 DJ:Y	90 J:Y	< 340 :Y	51 J:Y	< 350 :Y	< 350 :Y	< 350 :Y
ACENAPHTHYLENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
ANTHRACENE	570 :Y	1800 :Y	890 D:Y	190 J:Y	82 J:Y	63 J:Y	< 350 :Y	43 J:Y	38 J:Y
BENZO(a)ANTHRACENE	2100 :Y	4600 E:Y	2700 D:Y	550 :Y	270 J:Y	180 J:Y	97 J:Y	140 J:Y	110 J:Y
BENZO(a)PYRENE	2300 :Y	4400 E:Y	3000 D:Y	670 :Y	330 J:Y	220 J:Y	120 J:Y	170 J:Y	150 J:Y
BENZO(b)FLUORANTHENE	2900 E:Y	6300 E:Y	3300 D:Y	830 :Y	420 :Y	260 J:Y	140 J:Y	210 J:Y	220 J:Y
BENZO(ghi)PERYLENE	1100 :Y	2000 :Y	2200 D:Y	260 J:Y	130 J:Y	90 J:Y	< 350 :Y	96 J:Y	< 350 :Y
BENZO(k)FLUORANTHENE	1200 :Y	1700 :Y	1100 D:Y	350 :Y	160 J:Y	110 J:Y	60 J:Y	77 J:Y	78 J:Y
BENZOIC ACID	< 1600 :Y	76 J:Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	71 J:Y	94 J:Y
BENZYL ALCOHOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
BIS(2-CHLOROETHOXY)METHANE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
BIS(2-CHLOROETHYL)ETHER	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
BIS(2-CHLOROISOPROPYL)ETHER	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
BIS(2-ETHYLHEXYL)PHTHALATE	160 J:Y	420 :Y	970 D:Y	76 J:Y	130 J:Y	1800 :Y	100 J:Y	63 J:Y	88 J:Y

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SS301093 SSG1703JE 2-Jun-94	SS301193 SSG1704JE 7-Jun-94	SS301193 SSG1799JE 5-Aug-94	SS301293 SSG1705JE 2-Jun-94	SS301393 SSG1706JE 2-Jun-94
Test Group:BNACLP Units: µg/kg					
1,2,4-TRICHLOROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
1,2-DICHLOROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
1,3-DICHLOROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
1,4-DICHLOROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2,4,5-TRICHLOROPHENOL	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
2,4,6-TRIBROMOPHENOL	NA	3 :Y	NA	NA	NA
2,4,6-TRICHLOROPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2,4-DICHLOROPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2,4-DIMETHYLPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2,4-DINITROPHENOL	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
2,4-DINITROTOLUENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2,6-DINITROTOLUENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2-CHLORONAPHTHALENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2-CHLOROPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2-FLUOROBIPHENYL	NA	3 :Y	NA	NA	NA
2-METHYLNAPHTHALENE	< 350 :V	< 350 :Y	34 J:A	82 J:A	< 340 :V
2-METHYLPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
2-NITROANILINE	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
2-NITROPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
3,3'-DICHLOROBENZIDINE	< 690 :V	< 690 :Y	< 670 :V	< 730 :V	< 690 :V
3-NITROANILINE	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
4,6-DINITRO-2-METHYLPHENOL	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
4-CHLORO-3-METHYLPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
4-CHLOROANILINE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
4-CHLOROPHENYL PHENYL ETHER	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
4-METHYLPHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
4-NITROANILINE	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
4-NITROPHENOL	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V
4H-Cyclopenta(def)phenanthrene	NA	NA	NA	NA	NA
9,10-Anthracenedione	NA	NA	NA	NA	NA
ACENAPHTHENE	< 350 :V	< 350 :Y	230 J:A	380 :V	< 340 :V
ACENAPHTHYLENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
ANTHRACENE	< 350 :V	< 350 :Y	230 J:A	440 :V	72 J:A
BENZO(a)ANTHRACENE	< 350 :V	< 350 :Y	540 :V	790 :V	260 J:A
BENZO(a)PYRENE	76 J:A	< 350 :Y	670 :V	850 :V	300 J:A
BENZO(b)FLUORANTHENE	92 J:A	< 350 :Y	880 :V	960 :V	360 :V
BENZO(ghi)PERYLENE	78 J:A	< 350 :Y	370 :V	660 :V	270 J:A
BENZO(k)FLUORANTHENE	< 350 :V	< 350 :Y	320 J:A	360 J:A	110 J:A
BENZOIC ACID	< 1700 :V	< 1700 :Y	200 J:A	< 1800 :V	< 1700 :V
BENZYL ALCOHOL	< 350 :R	< 350 :Y	< 340 :V	< 360 :R	< 340 :R
BIS(2-CHLOROETHOXY)METHANE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
BIS(2-CHLOROETHYL)ETHER	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
BIS(2-CHLOROISOPROPYL)ETHER	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
BIS(2-ETHYLHEXYL)PHTHALATE	3700 D:V	< 350 :Y	200 J:A	590 :V	51 J:A

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location:	SS300393	SS300493	SS300493	SS300593	SS300693	SS300793	SS300893	SS300893	SS300993
Sample Identification Number:	SSG1696JE	SSG1697JE	SSG1804JE	SSG1698JE	SSG1699JE	SSG1700JE	SSG1701JE	SSG1802JE	SSG1702JE
Date Sampled:	7-Jun-94	7-Jun-94	7-Jun-94	7-Jun-94	7-Jun-94	6-Jun-94	6-Jun-94	6-Jun-94	6-Jun-94
BUTYL BENZYL PHTHALATE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	140 J:Y	< 350 :Y	< 350 :Y	< 350 :Y
Benzo[b]naphtho[1,2-d]thioph	NA	360 J:Y	NA	NA	NA	NA	NA	NA	NA
Benzo[b]naphtho[2,1-d]thioph	230 J:Y	NA	NA	NA	NA	NA	NA	NA	NA
CARBAZOLE	360 J:Y	1100 J:Y	530 J:Y	120 J:Y	45 J:Y	NA	NA	NA	NA
CHRYSENE	2200 :Y	3900 E:Y	2800 D:Y	670 :Y	330 J:Y	220 J:Y	120 J:Y	160 J:Y	150 J:Y
DI-n-BUTYL PHTHALATE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	130 J:Y	38 J:Y	38 J:Y	35 J:Y
DI-n-OCTYL PHTHALATE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
DIBENZO(a,h)ANTHRACENE	360 :Y	610 :Y	640 DJ:Y	86 J:Y	42 J:Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
DIBENZOFURAN	80 J:Y	,420 :Y"	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
DIETHYL PHTHALATE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
DIMETHYL PHTHALATE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
Dodecane	NA	NA	NA	120 J:Y	NA	NA	NA	NA	NA
FLUORANTHENE	3100 E:Y	6200 E:Y	4700 D:Y	1200 :Y	570 :Y	460 :Y	270 J:Y	350 :Y	290 J:Y
FLUORENE	210 J:Y	850 :Y	440 DJ:Y	77 J:Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
HEXACHLOROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
HEXACHLOROBUTADIENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
HEXACHLOROCYCLOPENTADIENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
HEXACHLOROETHANE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
INDENO(1,2,3-cd)PYRENE	1300 :Y	2200 :Y	2400 D:Y	300 J:Y	150 J:Y	110 J:Y	85 J:Y	120 J:Y	56 J:Y
ISOPHORONE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
N-NITROSO-DI-n-PROPYLAMINE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
N-NITROSODIPHENYLAMINE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
NAPHTHALENE	55 J:Y	,550 :Y"	210 DJ:Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
NITROBENZENE	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
NITROBENZENE-D5	76 :Y	79 :Y	72 :Y	45 :Y	50 :Y	64 :Y	59 :Y	67 :Y	65 :Y
PENTACHLOROPHENOL	< 1600 :Y	< 1700 :Y	< 3300 :Y	< 1600 :Y	< 1700 :Y	< 1800 :Y	< 1700 :Y	< 1700 :Y	62 J:Y

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location:	SS301093	SS301193	SS301193	SS301293	SS301393
Sample Identification Number:	SSG1703JE	SSG1704JE	SSG1799JE	SSG1705JE	SSG1706JE
Date Sampled:	2-Jun-94	7-Jun-94	5-Aug-94	2-Jun-94	2-Jun-94
BUTYL BENZYL PHTHALATE	< 350 :V	< 350 :Y	< 340 :V	150 J:A	< 340 :V
Benzo[b]naphtho[1,2-d]thioph	NA	NA	NA	NA	NA
Benzo[b]naphtho[2,1-d]thioph	NA	NA	NA	NA	NA
CARBAZOLE	NA	NA	NA	NA	NA
CHRYSENE	82 J:A	< 350 :Y	700 :V	940 :V	340 J:A
DI-n-BUTYL PHTHALATE	< 350 :V	< 350 :Y	< 340 :V	73 J:A	< 340 :V
DI-n-OCTYL PHTHALATE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
DIBENZO(a,h)ANTHRACENE	< 350 :V	< 350 :Y	120 J:A	180 J:A	72 J:A
DIBENZOFURAN	< 350 :V	< 350 :Y	84 J:A	160 J:A	< 340 :V
DIETHYL PHTHALATE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
DIMETHYL PHTHALATE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
Dodecane	NA	NA	NA	NA	NA
FLUORANTHENE	120 J:A	51 J:Y	1500 :V	2000 :V	460 :V
FLUORENE	< 350 :V	< 350 :Y	160 J:A	270 J:A	< 340 :V
HEXACHLOROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
HEXACHLOROBUTADIENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
HEXACHLOROCYCLOPENTADIENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
HEXACHLOROETHANE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
INDENO(1,2,3-cd)PYRENE	70 J:A	< 350 :Y	440 :V	750 :V	280 J:A
ISOPHORONE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
N-NITROSO-DI-n-PROPYLAMINE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
N-NITROSODIPHENYLAMINE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
NAPHTHALENE	< 350 :V	< 350 :Y	74 J:A	< 360 :V	< 340 :V
NITROBENZENE	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
NITROBENZENE-D5	NA	3 :Y	NA	NA	NA
PENTACHLOROPHENOL	< 1700 :V	< 1700 :Y	< 1600 :V	< 1800 :V	< 1700 :V

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SS300393 SSG1696JE 7-Jun-94	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300593 SSG1698JE 7-Jun-94	SS300693 SSG1699JE 7-Jun-94	SS300793 SSG1700JE 6-Jun-94	SS300893 SSG1701JE 6-Jun-94	SS300893 SSG1802JE 6-Jun-94	SS300993 SSG1702JE 6-Jun-94
PHENANTHRENE	2300 :Y	5400 E:Y	3700 D:Y	860 :Y	390 :Y	330 J:Y	190 J:Y	220 J:Y	220 J:Y
PHENOL	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
PHENOL-D5	73 :Y	79 :Y	77 :Y	54 :Y	53 :Y	67 :Y	63 :Y	71 :Y	67 :Y
PYRENE	3200 E:Y	7000 E:Y	4600 D:Y	1100 :Y	510 :Y	410 :Y	230 J:Y	280 J:Y	270 J:Y
TERPHENYL-D14	72 :Y	90 :Y	74 :Y	52 :Y	47 :Y	59 :Y	53 :Y	55 :Y	54 :Y
TIC-Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC-Unknown C11H24	300 J:Y	NA	NA	NA	NA	NA	NA	NA	NA
TIC-Unknown C15H10 PAH	310 J:Y	140 J:Y	460 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C15H12 PAH	NA	590 J:Y	260 J:Y	NA	NA	NA	NA	NA	99 J:Y
TIC-Unknown C15H12 PAH-1	NA	77 J:Y	250 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C15H12 PAH-2	NA	81 J:Y	320 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH	NA	NA	NA	NA	77 J:Y	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-1	190 J:Y	280 J:Y	350 J:Y	130 J:Y	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-2	140 J:Y	180 J:Y	240 J:Y	91 J:Y	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-3	100 J:Y	130 J:Y	190 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-4	89 J:Y	150 J:Y	98 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C19H14 PAH	120 J:Y	140 J:Y	210 J:Y	76 J:Y	NA	NA	NA	NA	NA
TIC-Unknown C20H12 PAH	NA	3100 J:Y	NA	NA	NA	NA	NA	NA	330 J:Y
TIC-Unknown C20H12 PAH-1	680 J:Y	2000 J:Y	870 J:Y	330 J:Y	150 J:Y	360 J:Y	120 J:Y	150 J:Y	NA
TIC-Unknown C20H12 PAH-2	1900 J:Y	4400 J:Y	2500 J:Y	990 J:Y	510 J:Y	590 J:Y	270 J:Y	470 J:Y	NA
TIC-Unknown C20H12 PAH-3	NA	NA	3200 J:Y	NA	NA	NA	NA	NA	NA
TIC-Unknown C22H12 PAH	NA	1100 J:Y	830 J:Y	NA	NA	NA	NA	90 J:Y	NA
TIC-Unknown C22H14 PAH	1000 J:Y	2200 J:Y	2100 J:Y	NA	260 J:Y	NA	NA	NA	NA
TIC-Unknown C25H52	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC-Unknown Phthalate-1	NA	NA	NA	79 J:Y	NA	97 J:Y	80 J:Y	NA	NA
TIC-Unknown Phthalate-2	NA	NA	NA	300 J:Y	NA	230 J:Y	98 J:Y	NA	NA
TIC-Unknown Phthalate-3	NA	NA	NA	NA	NA	260 J:Y	NA	NA	NA
TIC-Unknown-1	83 J:Y	110 J:Y	490 J:Y	290 J:Y	87 J:Y	110 J:Y	160 J:Y	180 J:Y	220 J:Y
TIC-Unknown-10	510 J:Y	110 J:Y	1100 J:Y	1100 J:Y	NA	250 J:Y	110 J:Y	640 J:Y	93 J:Y
TIC-Unknown-11	NA	1600 J:Y	570 J:Y	NA	NA	260 J:Y	NA	110 J:Y	130 J:Y
TIC-Unknown-12	NA	NA	910 J:Y	NA	NA	420 J:Y	NA	NA	110 J:Y
TIC-Unknown-13	NA	NA	NA	NA	NA	NA	NA	NA	640 J:Y
TIC-Unknown-14	NA	NA	NA	NA	NA	NA	NA	NA	610 J:Y
TIC-Unknown-15	NA	NA	NA	NA	NA	NA	NA	NA	280 J:Y
TIC-Unknown-16	NA	NA	NA	NA	NA	NA	NA	NA	310 J:Y
TIC-Unknown-17	NA	NA	NA	NA	NA	NA	NA	NA	1700 J:Y
TIC-Unknown-2	190 J:Y	96 J:Y	310 J:Y	100 J:Y	170 J:Y	130 J:Y	86 J:Y	120 J:Y	290 J:Y
TIC-Unknown-3	140 J:Y	180 J:Y	240 J:Y	84 J:Y	150 J:Y	360 J:Y	86 J:Y	190 J:Y	440 J:Y
TIC-Unknown-4	130 J:Y	150 J:Y	190 J:Y	91 J:Y	280 J:Y	88 J:Y	87 J:Y	99 J:Y	270 J:Y
TIC-Unknown-5	170 J:Y	170 J:Y	250 J:Y	100 J:Y	240 J:Y	220 J:Y	220 J:Y	120 J:Y	150 J:Y
TIC-Unknown-6	100 J:Y	110 J:Y	140 J:Y	73 J:Y	170 J:Y	92 J:Y	170 J:Y	130 J:Y	110 J:Y
TIC-Unknown-7	110 J:Y	150 J:Y	340 J:Y	98 J:Y	NA	120 J:Y	100 J:Y	180 J:Y	94 J:Y
TIC-Unknown-8	97 J:Y	120 J:Y	150 J:Y	420 J:Y	NA	230 J:Y	590 J:Y	110 J:Y	110 J:Y
TIC-Unknown-9	1100 J:Y	110 J:Y	160 J:Y	320 J:Y	NA	290 J:Y	350 J:Y	120 J:Y	82 J:Y
Triphenylene	NA	360 J:Y	NA	NA	NA	NA	NA	NA	NA

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SS301093 SSG1703JE 2-Jun-94	SS301193 SSG1704JE 7-Jun-94	SS301193 SSG1799JE 5-Aug-94	SS301293 SSG1705JE 2-Jun-94	SS301393 SSG1706JE 2-Jun-94
PHENANTHRENE	100 J:A	39 J:Y	1300 :V	2000 :V	320 J:A
PHENOL	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
PHENOL-D5	NA	3 :Y	NA	NA	NA
PYRENE	120 J:A	42 J:Y	1200 :V	1500 :V	410 :V
TERPHENYL-D14	NA	3 :Y	NA	NA	NA
TIC-Unknown	NA	71 J:Y	NA	NA	NA
TIC-Unknown C11H24	NA	NA	NA	NA	NA
TIC-Unknown C15H10 PAH	NA	NA	NA	NA	NA
TIC-Unknown C15H12 PAH	NA	NA	NA	NA	NA
TIC-Unknown C15H12 PAH-1	NA	NA	NA	NA	NA
TIC-Unknown C15H12 PAH-2	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-1	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-2	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-3	NA	NA	NA	NA	NA
TIC-Unknown C17H12 PAH-4	NA	NA	NA	NA	NA
TIC-Unknown C19H14 PAH	NA	NA	NA	NA	NA
TIC-Unknown C20H12 PAH	NA	NA	NA	NA	NA
TIC-Unknown C20H12 PAH-1	NA	NA	NA	NA	NA
TIC-Unknown C20H12 PAH-2	NA	NA	NA	NA	NA
TIC-Unknown C20H12 PAH-3	NA	NA	NA	NA	NA
TIC-Unknown C22H12 PAH	NA	NA	NA	NA	NA
TIC-Unknown C22H14 PAH	NA	NA	NA	NA	NA
TIC-Unknown C25H52	NA	120 J:Y	NA	NA	NA
TIC-Unknown Phthalate-1	NA	NA	NA	NA	NA
TIC-Unknown Phthalate-2	NA	NA	NA	NA	NA
TIC-Unknown Phthalate-3	NA	NA	NA	NA	NA
TIC-Unknown-1	NA	NA	NA	NA	NA
TIC-Unknown-10	NA	NA	NA	NA	NA
TIC-Unknown-11	NA	NA	NA	NA	NA
TIC-Unknown-12	NA	NA	NA	NA	NA
TIC-Unknown-13	NA	NA	NA	NA	NA
TIC-Unknown-14	NA	NA	NA	NA	NA
TIC-Unknown-15	NA	NA	NA	NA	NA
TIC-Unknown-16	NA	NA	NA	NA	NA
TIC-Unknown-17	NA	NA	NA	NA	NA
TIC-Unknown-2	NA	NA	NA	NA	NA
TIC-Unknown-3	NA	NA	NA	NA	NA
TIC-Unknown-4	NA	NA	NA	NA	NA
TIC-Unknown-5	NA	NA	NA	NA	NA
TIC-Unknown-6	NA	NA	NA	NA	NA
TIC-Unknown-7	NA	NA	NA	NA	NA
TIC-Unknown-8	NA	NA	NA	NA	NA
TIC-Unknown-9	NA	NA	NA	NA	NA
Triphenylene	NA	NA	NA	NA	NA

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SS300393 SSG1696JE 7-Jun-94	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300593 SSG1698JE 7-Jun-94	SS300693 SSG1699JE 7-Jun-94	SS300793 SSG1700JE 6-Jun-94	SS300893 SSG1701JE 6-Jun-94	SS300893 SSG1802JE 6-Jun-94	SS300993 SSG1702JE 6-Jun-94
Undecane	NA	NA	NA	NA	NA	NA	NA	NA	310 J:Y
o-FLUOROPHENOL	77 :Y	84 :Y	83 :Y	45 :Y	48 :Y	60 :Y	55 :Y	69 :Y	64 :Y
p-BROMODIPHENYL ETHER	< 340 :Y	< 350 :Y	< 680 :Y	< 340 :Y	< 340 :Y	< 370 :Y	< 350 :Y	< 350 :Y	< 350 :Y
Test Group:METADD Units: mg/kg									
CESIUM	< 7.5 :J	8.2 B:J	10.4 B:J	10.3 B:J	10.1 B:J	8.8 B:J	8.4 B:J	8.6 B:J	8.2 B:J
LITHIUM	6.3 B:J	6.8 B:J	7.1 B:J	6.5 B:J	4.3 B:J	6.7 B:J	6.1 B:J	6.7 B:J	8.5 B:J
MOLYBDENUM	< 2.4 :J	< 2.5 :J	< 2.4 :J	< 2.2 :J	< 1.5 :J	< 2.7 :J	< 2 :J	< 2.5 :J	< 2.9 :J
STRONTIUM	12.9 B:J	16.9 B:J	16.7 B:J	27.4 B:J	11.3 B:J	39.3 B:J	21.2 B:J	23 B:J	19 B:J
TIN	4.5 B:J	< 2.1 :J	< 2.2 :J	< 2.2 :J	< 2.1 :J	< 2.3 :J	< 2.2 :J	< 2.2 :J	< 2.2 :J
Test Group:SMETCLP Units: mg/kg									
ALUMINUM	6470 :V	8410 :V	9060 :V	8310 :V	4240 :V	8730 :V	7380 :V	8240 :V	11500 :V
ANTIMONY	< 2.7 :J	< 2.7 :J	< 2.7 :J	< 2.7 :J	< 2.7 :J	< 2.9 :J	< 2.8 :J	< 2.8 :J	< 2.7 :J
ARSENIC	3.5 :V	4.8 :V	4.9 :V	4.8 :V	2.7 :V	6.3 :V	5.2 :V	5.7 :V	6.9 :V
BARIUM	57.5 :V	76.9 :V	76.4 :V	71.9 :V	39 B:V	162 :V	63.5 :V	68.7 :V	70.5 :V
BERYLLIUM	.5 B:V	.57 B:V	.58 B:V	.58 B:V	< .29 :J	.58 B:V	.58 B:V	.58 B:V	.75 B:V
CADMIUM	< .27 :J	< .24 :J	< .17 :V	< .16 :V	< .16 :V	< .23 :J	< .17 :V	< .17 :V	< .16 :V
CALCIUM	3710 :V	3940 :V	3730 :V	5920 :V	2000 :V	6530 :V	4690 :V	4520 :V	5040 :V
CHROMIUM	11.5 :J	12.2 :V	12.7 :V	10.3 :V	5.3 :V	9.6 :V	8.5 :V	9.3 :V	12.9 :V
COBALT	4.9 B:V	4.6 B:V	4.5 B:V	5.4 B:V	2.9 B:V	6.5 B:V	4.4 B:V	4.8 B:V	5.3 B:V
COPPER	143 :V	15.5 :V	14.6 :V	17.1 :V	13.1 :V	15.8 :V	15 :V	15.5 :V	15.6 :V
IRON	11100 :V	11100 :V	11300 :V	12700 :V	7720 :V	13900 :V	11100 :V	12700 :V	15700 :V
LEAD	36.2 :V	32 :V	69.5 :V	15.1 :V	12.1 :V	17.2 :V	11.8 :V	12.6 :V	20.6 :V
MAGNESIUM	2260 :V	1880 :V	1920 :V	2530 :V	1380 :V	2500 :V	2360 :V	2540 :V	2710 :V
MANGANESE	177 :V	163 :V	145 :V	204 :V	116 :V	1240 :V	172 :V	180 :V	213 :V
MERCURY	.056 B:V	.081 :V	.087 B:V	.056 B:V	< .049 :V	.061 B:V	.055 B:V	.059 B:V	.052 B:V
NICKEL	7.9 B:V	8.6 :V	9.2 :V	7.6 B:V	3.2 B:V	10 :V	6.9 B:V	7.5 B:V	10.2 :V
POTASSIUM	1350 :V	1430 :V	1440 :V	1430 :V	1100 :V	1670 :V	1390 :V	1510 :V	2150 :V
SELENIUM	< .43 :V	< .43 :V	< .44 :V	< .43 :V	< .43 :V	< .46 :V	< .44 :V	< .45 :V	< .43 :V
SILVER	.93 B:V	< .84 :V	1.1 B:V	< .84 :V	< .83 :V	1.1 B:V	< .86 :V	< .88 :V	1.1 B:V
SODIUM	128 B:V	138 B:V	120 B:V	148 B:V	143 B:V	185 B:V	145 B:V	156 B:V	325 B:V
THALLIUM	< .45 :V	< .45 :V	< .46 :V	< .45 :V	< .45 :V	< .48 :V	< .46 :V	< .47 :V	< .45 :V
VANADIUM	21.5 :V	26.1 :V	27 :V	24.2 :V	12.6 :V	30.5 :V	23.1 :V	26.5 :V	31 :V
ZINC	64.8 :V	45.2 :V	44.2 :V	48.4 :V	53.3 :V	77.6 :V	49.3 :V	47.4 :V	89.5 :V
Test Group:TRADS Units: pCi/g									
AMERICIUM-241	.081(.02) :Y	.027(.01) :V	.028(.012) :V	.067(.018) :V	.026(.011) :V	.01(.007) :V	.012(.008) :V	.007(.006) :V	.012(.008) :V
GROSS ALPHA	29.27(6.17) :V	27.87(5.97) :V	27.35(6.02) :V	24.62(5.61) :V	32.99(6.73) :V	23.56(5.58) :V	25.8(5.9) :V	19.45(5.11) :V	25.54(5.93) :V
GROSS BETA	51.23(5.95) :V	43.22(5.4) :V	22.17(3.74) :V	41.43(5.28) :V	47.82(5.76) :V	32.95(4.59) :V	20.96(3.71) :V	35.34(4.84) :V	42.28(5.33) :V
PLUTONIUM-239/240	.07(.024) :V	.078(.025) :V	.195(.047) :V	.098(.025) :V	.033(.016) :V	.011(.008) :V	.041(.015) :V	.015(.01) :V	.013(.008) :V
TRITIUM	-54.9(214) J:V	-28.9(215) J:V	25.02(204) J:V	-77(213) J:V	-239(205) J:V	83.74(207) J:V	206.9(213) J:V	45.24(205) J:V	92.4(207) J:V
URANIUM-233,-234	1.422(.28) :V	3.242(.586) :A	2.573(.36) :V	1.98(.459) :A	1.571(.313) :V	1.236(.208) :V	3.185(.461) :V	1.203(.2) :V	1.556(.253) :V
URANIUM-235	.061(.049) :V	.122(.082) :A	.087(.044) :V	.095(.086) J:A	.049(.047) J:V	.06(.036) :V	.116(.057) :V	.031(.026) :V	.045(.034) :V
URANIUM-238	1.737(.321) :V	5.265(.864) :A	4.321(.552) :V	1.788(.428) :A	1.48(.3) :V	1.331(.219) :V	3.975(.553) :V	1.38(.22) :V	1.434(.238) :V
Test Group:WQPL Units: pH									
pH	8.89 :V	8.66 :V	8.74 :V	8.92 :V	8.67 :V	9.26 :V	8.89 :V	8.98 :V	9.09 :V

TABLE C-13
Surface-Soil Results
OU13 - IHSS 157.1

Sample Location:	SS301093	SS301193	SS301193	SS301293	SS301393
Sample Identification Number:	SSG1703JE	SSG1704JE	SSG1799JE	SSG1705JE	SSG1706JE
Date Sampled:	2-Jun-94	7-Jun-94	5-Aug-94	2-Jun-94	2-Jun-94
Undecane	NA	NA	NA	NA	NA
o-FLUOROPHENOL	NA	3 :Y	NA	NA	NA
p-BROMODIPHENYL ETHER	< 350 :V	< 350 :Y	< 340 :V	< 360 :V	< 340 :V
Test Group:METADD Units: mg/kg					
CESIUM	8.5 B:J	10.5 B:J	NA	< 7.9 :J	8 B:J
LITHIUM	6.9 B:J	8 B:J	NA	5.8 B:J	7.5 B:J
MOLYBDENUM	< 2 :J	6.2 B:V	NA	< 1.5 :J	< 1.3 :J
STRONTIUM	23.4 B:J	13.2 B:J	NA	14.5 B:J	11.6 B:J
TIN	< 2.7 :J	< 2.2 :J	NA	< 2.7 :J	< 2.5 :J
Test Group:SMETCLP Units: mg/kg					
ALUMINUM	8240 :V	12300 :V	NA	6930 :V	5560 :V
ANTIMONY	< 3.1 :J	< 2.8 :J	NA	< 3.2 :J	< 2.9 :J
ARSENIC	4.5 :V	7.1 :V	NA	5.1 :V	2.2 :J
BARIUM	78.6 :V	73.2 :V	NA	138 :V	54.6 :V
BERYLLIUM	.65 B:V	.84 B:V	NA	.52 B:V	< .31 :J
CADMIUM	< .23 :V	< .17 :V	NA	.46 B:V	< .22 :V
CALCIUM	10800 :V	5360 :V	NA	3670 :V	2760 :V
CHROMIUM	8.5 :V	14.3 :V	NA	13.8 :V	9.5 :V
COBALT	6.9 B:V	5.3 B:V	NA	5.1 B:V	4.1 B:V
COPPER	19.1 :V	16.8 :V	NA	19.6 :V	12.2 :V
IRON	18200 :V	14700 :V	NA	12900 :V	9700 :V
LEAD	13.1 :J	129 :V	NA	38.2 :J	10 :J
MAGNESIUM	4570 :V	1960 :V	NA	2860 :V	2070 :V
MANGANESE	396 :V	205 :V	NA	377 :V	136 :V
MERCURY	< .05 :V	.084 B:V	NA	.065 B:V	< .047 :V
NICKEL	7.4 B:V	14.7 :V	NA	8.7 :V	7.1 B:V
POTASSIUM	2290 :V	1560 :V	NA	1590 :V	1340 :V
SELENIUM	< .44 :V	< .44 :V	NA	< .45 :V	< .42 :V
SILVER	1.4 B:V	.95 B:V	NA	.91 B:V	1 B:V
SODIUM	511 B:V	109 B:V	NA	129 B:V	146 B:V
THALLIUM	< .47 :V	< .46 :V	NA	< .48 :V	< .44 :V
VANADIUM	28.8 :V	40.1 :V	NA	28.3 :V	18 :V
ZINC	57 :V	68 :V	NA	101 :V	44.2 :V
Test Group:TRADS Units: pCi/g					
AMERICIUM-241	.011(.008) :V	.024(.013) :V	NA	.038(.015) :V	.007(.006) :V
GROSS ALPHA	18.44(4.72) :V	23.18(5.39) :V	NA	25.88(5.87) :V	30.6(6.33) :V
GROSS BETA	36.28(3.84) :V	41.1(5.24) :V	NA	40.68(4.11) :V	50.63(4.8) :V
PLUTONIUM-239/240	.013(.008) :V	.062(.021) :V	NA	.208(.052) :V	.027(.015) :V
TRITIUM	135.1(212) J:V	-30.8(215) J:V	NA	76.79(209) J:V	48.11(208) J:V
URANIUM-233,-234	1.05(.165) :V	.99(.245) :V	NA	1.275(.195) :V	2.269(.31) :V
URANIUM-235	.029(.022) :V	.05(.049) J:V	NA	.069(.035) :V	.078(.039) :V
URANIUM-238	1.288(.191) :V	1.436(.312) :V	NA	1.289(.197) :V	2.03(.284) :V
Test Group:WQPL Units: pH					
pH	8.2 :V	7.91 :V	NA	7.97 :V	8.27 :V

TABLE C-14
Surface-Soil Results
OU13 - IHSS 117.3

Sample Location: Sample Identification Number: Date Sampled:	SS307893 SSG1772JE 8-Jul-94	SS307993 SSG1773JE 8-Jul-94	SS307993 SSG1832JE 8-Jul-94	SS308093 SSG1774JE 11-Jul-94	SS308193 SSG1775JE 11-Jul-94	SS308293 SSG1776JE 11-Jul-94	SS308393 SSG1777JE 11-Jul-94	SS308493 SSG1778JE 11-Jul-94
Test Group:METADD Units: mg/kg								
CESIUM	3.9 B:J	< 3.3 :J	5.9 B:J	< 3.1 :J	3.9 B:J	4 :J	5.9 B:J	4.2 B:J
LITHIUM	5.9 B:J	7.2 B:J	7.2 B:J	6.1 B:J	6.3 B:J	5 B:J	5 B:J	8.2 B:J
MOLYBDENUM	2.6 B:V	3.8 B:V	3.6 B:V	2.9 B:V	3.9 :V	2.5 B:V	3.2 B:V	4.2 B:V
STRONTIUM	13.4 B:J	30.5 B:J	29.5 B:J	14.4 B:J	15.5 B:J	19.2 B:J	14.6 B:J	23.4 B:J
TIN	< 2.1 :J	< 2.2 :J	< 2.1 :J	< 2 :J	< 2.1 :J	< 2.1 :J	< 2.1 :J	< 2.2 :J
Test Group:SMETCLP Units: mg/kg								
ALUMINUM	5510 I:J	13000 I:J	13000 I:J	9600 I:J	10900 I:J	7910 I:J	7080 I:J	13500 I:J
ANTIMONY	< 2.6 :J	< 2.7 :J	< 2.6 :J	< 2.5 :J	< 2.6 :J	< 2.6 :J	< 2.6 :J	< 2.8 :J
ARSENIC	3.5 :V	8.4 :V	8.6 :V	4.8 :V	7.4 :V	5.1 :V	4.4 :V	7.6 :V
BARIUM	83.3 I:J	98.5 I:J	96.5 I:J	61.2 I:J	70.9 I:J	60.5 I:J	133 I:J	93.4 I:J
BERYLLIUM	.36 B:V	1.1 :V	1 :V	.66 B:V	.82 B:V	.61 B:V	.53 B:V	1.1 :V
CADMIUM	< .23 :J	< .42 :J	< .24 :J	< .38 :J	< .68 :J	< .31 :J	< .29 :J	< .51 :J
CALCIUM	1820 :V	13000 :V	11300 :V	3290 :V	4330 :V	6250 :V	2950 :V	6300 :V
CHROMIUM	8.6 :V	16.4 :V	16.1 :V	14.7 :V	24.1 :V	12.3 :V	13.5 :V	21.2 :V
COBALT	3.7 B:V	6.3 B:V	6.1 B:V	5.1 B:V	7.6 B:V	4.1 B:V	4.2 B:V	8.7 B:V
COPPER	8.7 :V	11.3 :V	11.6 :V	13.2 :V	13.3 :V	8.7 :V	13.6 :V	15.6 :V
IRON	8940 I:J	14500 I:J	14700 I:J	11500 I:J	14200 I:J	9540 I:J	10200 I:J	16300 I:J
LEAD	16.6 :V	19.6 :V	18 :V	41.9 :V	90.6 :V	45.2 :V	47 :V	78.5 :V
MAGNESIUM	1540 I:J	2150 I:J	2120 I:J	1780 I:J	1600 I:J	1400 I:J	1840 I:J	2530 I:J
MANGANESE	168 I:J	174 I:J	161 I:J	102 I:J	461 I:J	121 I:J	438 I:J	226 I:J
MERCURY	< .044 :V	.079 B:V	.078 B:V	.072 B:V	.1 B:V	.071 B:V	< .049 :V	.13 :V
NICKEL	7.4 B:V	13.2 :V	12.8 :V	11.2 :V	12.7 :V	8.9 :V	8.3 :V	14.8 :V
POTASSIUM	1020 I:J	1460 I:J	1410 I:J	1200 I:J	1010 I:J	1020 I:J	1140 I:J	1440 I:J
SELENIUM	< .55 :V	1.1 :V	.87 B:V	.91 B:V	.92 B:V	< .56 :V	.76 B:V	.71 B:V
SILVER	< .81 :V	2.7 :V	2.3 :V	1.2 B:V	1.2 B:V	1.3 B:V	1.2 B:V	1.5 B:V
SODIUM	149 B:V	< 70 :J	< 65.9 :J	< 57.6 :J	113 B:V	< 70.3 :J	201 B:V	112 B:V
THALLIUM	< .43 :V	< .45 :V	< .43 :V	< .43 :V	< .43 :V	< .44 :V	< .43 :V	< .46 :J
VANADIUM	14.6 I:J	33.2 I:J	32.8 I:J	25.3 I:J	29.3 I:J	22.9 I:J	21.6 I:J	38.6 I:J
ZINC	51.6 :V	64.2 :V	58.4 :V	289 :V	1580 :V	147 :V	69.2 :V	358 :V
Test Group:TRADS Units: pCi/g								
AMERICIUM-241	.02(.01) :V	.019(.01) :V	.005(.005) J:V	.061(.017) :V	.029(.011) :V	.027(.012) :V	.039(.014) :V	.062(.017) :V
GROSS ALPHA	26.01(5.82) :V	25.37(5.78) :V	23.11(5.52) :V	19.8(4.98) :V	22.14(5.22) :V	22.7(5.35) :V	23.28(5.43) :V	21.77(5.22) :V
GROSS BETA	34.2(3.7) :V	33.84(3.7) :V	39.97(4.08) :V	35.2(3.75) :V	37.14(3.9) :V	35.12(3.75) :V	41.58(4.18) :V	38.24(3.95) :V
PLUTONIUM-239/240	.073(.02) :V	.099(.023) :V	.02(.013) :V	.203(.037) :V	.083(.027) :V	.169(.032) :V	.087(.025) :V	.385(.06) :V
TRITIUM	-5.79(207) J:V	-53.1(204) J:V	2.896(207) J:V	-28(205) J:V	.965(207) J:V	30.88(209) J:V	34.74(209) J:V	124.5(213) J:V
URANIUM-233,-234	1.183(.225) :V	1.245(.218) :V	1.735(.257) :V	1.152(.236) :V	.914(.181) :V	1.256(.206) :V	1.046(.199) :V	.87(.159) :V
URANIUM-235	.06(.044) :V	.032(.029) J:V	.023(.021) :V	.022(.033) J:V	.047(.035) :V	.044(.032) :V	.039(.033) :V	.028(.024) :V
URANIUM-238	1.276(.237) :V	1.311(.225) :V	1.553(.237) :V	1.259(.251) :V	1.2(.217) :V	1.329(.214) :V	1.239(.223) :V	.935(.167) :V
Test Group:WQPL Units: pH								
pH	7.51 :V	7.93 :V	8.01 :V	NA	NA	NA	NA	NA

TABLE C-14
Surface-Soil Results
OU13 - IHSS 117.3

Sample Location: Sample Identification Number: Date Sampled:	SS307893 SSG1772JE 8-Jul-94	SS307993 SSG1773JE 8-Jul-94	SS308593 SSG1779JE 11-Jul-94	SS308693 SSG1780JE 11-Jul-94	SS308793 SSG1781JE 8-Jul-94	SS308893 SSG1782JE 8-Jul-94
Test Group:METADD Units: mg/kg						
CESIUM	3.9 B:J	< 3.3 :J	4.4 B:J	4.1 B:J	4.2 B:J	4.2 B:J
LITHIUM	5.9 B:J	7.2 B:J	5.3 B:J	4.6 B:J	6.3 B:J	5.3 :J
MOLYBDENUM	2.6 B:V	3.8 B:V	4.2 B:V	2.8 B:V	2.1 B:V	1.9 :V
STRONTIUM	13.4 B:J	30.5 B:J	17.8 B:J	12.8 B:J	13.2 B:J	12.7 B:J
TIN	< 2.1 :J	< 2.2 :J	< 2.3 :J	< 2.2 :J	< 2.2 :J	< 2.2 :J
Test Group:SMETCLP Units: mg/kg						
ALUMINUM	5510 I:J	13000 I:J	13800 I:J	8220 I:J	4920 I:J	3390 I:J
ANTIMONY	< 2.6 :J	< 2.7 :J	< 2.8 :J	< 2.7 :J	< 2.8 :J	< 2.8 :J
ARSENIC	3.5 :V	8.4 :V	9.4 :V	5.5 :V	< 3.1 :J	< 2.7 :J
BARIUM	83.3 I:J	98.5 I:J	73.6 I:J	57.9 I:J	70.5 I:J	57.3 I:J
BERYLLIUM	.36 B:V	1.1 :V	1.1 :V	.69 B:V	.39 B:V	.28 B:V
CADMIUM	< .23 :J	< .42 :J	< .42 :J	< .38 :J	< .59 :J	< .32 :J
CALCIUM	1820 :V	13000 :V	4500 :V	3360 :V	1850 :V	1290 :V
CHROMIUM	8.6 :V	16.4 :V	17.3 :V	11.4 :V	9.6 :V	6.4 :V
COBALT	3.7 B:V	6.3 B:V	4.9 B:V	4.8 B:V	14.4 :V	53.5 :V
COPPER	8.7 :V	11.3 :V	9.5 :V	9.8 :V	10.6 :V	17.6 :V
IRON	8940 I:J	14500 I:J	15800 I:J	10900 I:J	8050 I:J	6330 I:J
LEAD	16.6 :V	19.6 :V	33.2 :V	28.9 :V	8.3 :V	8 :V
MAGNESIUM	1540 I:J	2150 I:J	1410 I:J	1480 I:J	1440 I:J	1240 I:J
MANGANESE	168 I:J	174 I:J	97.4 I:J	115 I:J	196 I:J	116 I:J
MERCURY	< .044 :V	.079 B:V	.15 :V	.066 B:V	< .049 :V	< .048 :V
NICKEL	7.4 B:V	13.2 :V	13.5 :V	10 :V	6.7 B:V	5.7 B:V
POTASSIUM	1020 I:J	1460 I:J	857 B:J	939 B:J	1140 I:J	978 B:J
SELENIUM	< .55 :V	1.1 :V	1.5 :V	< .58 :V	< .59 :V	< .59 :V
SILVER	< .81 :V	2.7 :V	1.7 B:V	< .85 :V	1.2 B:V	2 B:V
SODIUM	149 B:V	< 70 :J	< 74.8 :J	< 72.7 :J	83.2 B:V	100 B:V
THALLIUM	< .43 :V	< .45 :V	< .48 :V	< .46 :V	< .46 :V	< .46 :V
VANADIUM	14.6 I:J	33.2 I:J	42.4 I:J	24.5 I:J	12.8 I:J	9.8 B:J
ZINC	51.6 :V	64.2 :V	378 :V	278 :V	126 :V	24.2 :V
Test Group:TRADS Units: pCi/g						
AMERICIUM-241	.02(.01) :V	.019(.01) :V	.024(.011) :V	.04(.014) :V	.002(.005) J:V	.023(.01) :V
GROSS ALPHA	26.01(5.82) :V	25.37(5.78) :V	22.42(5.34) :V	19.17(4.86) :V	24.93(5.64) :V	23.51(5.53) :V
GROSS BETA	34.2(3.7) :V	33.84(3.7) :V	37.54(3.9) :V	37.34(3.91) :V	39.8(4.06) :V	39.03(4.02) :V
PLUTONIUM-239/240	.073(.02) :V	.099(.023) :V	.144(.121) :R	.169(.036) :V	.018(.036) J:R	.093(.023) :V
TRITIUM	-5.79(207) J:V	-53.1(204) J:V	104.6(205) J:V	-42.5(205) J:V	156.6(207) J:V	-66.6(204) J:V
URANIUM-233,-234	1.183(.225) :V	1.245(.218) :V	1.314(.258) :V	1.036(.17) :V	2.261(.348) :V	2.087(.297) :V
URANIUM-235	.06(.044) :V	.032(.029) J:V	.097(.059) :V	.064(.035) :V	.093(.052) :V	.091(.044) :V
URANIUM-238	1.276(.237) :V	1.311(.225) :V	1.433(.274) :V	1.034(.17) :V	1.815(.295) :V	1.952(.282) :V
Test Group:WQPL Units: pH						
pH	7.51 :V	7.93 :V	NA	NA	NA	NA

TABLE C-15
Summary of pH and Percent Solids
OU13 IHSSs

IHSS 117.3														
Sample Location:	SS307893	SS307993	SS307993	SS308093	SS308193	SS308293	SS308393	SS308493	SS308593	SS308693	SS308793	SS308893		
Sample Identification Number:	SSG1772JE	SSG1773JE	SSG1832JE	SSG1774JE	SSG1775JE	SSG1776JE	SSG1777JE	SSG1778JE	SSG1779JE	SSG1780JE	SSG1781JE	SSG1782JE		
Date Sampled:	8-Jul-94	8-Jul-94	8-Jul-94	11-Jul-94	11-Jul-94	11-Jul-94	11-Jul-94	11-Jul-94	11-Jul-94	11-Jul-94	8-Jul-94	8-Jul-94		
pH	7.51 :V	7.93 :V	8.01 :V	NA	NA	NA	NA	NA	NA	NA	NA	NA		
IHSS 128														
Sample Location:	SS302293													
Sample Identification Number:	SSG1715JE													
Date Sampled:	13-Jun-94													
% SOLIDS BY WEIGHT	97 :V													
IHSS 134N														
Sample Location:	SS302093	SS302193	SS310393											
Sample Identification Number:	SSG1713JE	SSG1714JE	SSG1798JE											
Date Sampled:	8-Jun-94	8-Jun-94	18-Jul-94											
% SOLIDS BY WEIGHT	96.3 :V	97.5 :V	NA											
IHSS 134S														
Sample Location:	SS302593	SS302693	SS302793	SS302893	SS302993	SS302993	SS303093	SS303193	SS303293	SS303393	SS303493	SS303593		
Sample Identification Number:	SSG1718JE	SSG1719JE	SSG1720JE	SSG1721JE	SSG1722JE	SSG1813JE	SSG1723JE	SSG1724JE	SSG1725JE	SSG1726JE	SSG1727JE	SSG1728JE		
Date Sampled:	14-Jun-94	14-Jun-94	14-Jun-94	14-Jun-94	15-Jun-94	15-Jun-94	15-Jun-94	16-Jun-94	16-Jun-94	16-Jun-94	16-Jun-94	16-Jun-94		
% SOLIDS BY WEIGHT	92.1 :V	96 :V	94.5 :V	92.2 :V	93.3 :V	92.7 :V	92.9 :V	91.7 :V	92.3 :V	91.1 :V	92.4 :V	93.4 :V		
IHSS 157.1														
Sample Location:	SS300393	SS300493	SS300493	SS300593	SS300693	SS300793	SS300893	SS300893	SS300993	SS301093	SS301193	SS301193	SS301293	SS301393
Sample Identification Number:	SSG1696JE	SSG1697JE	SSG1804JE	SSG1698JE	SSG1699JE	SSG1700JE	SSG1701JE	SSG1802JE	SSG1702JE	SSG1703JE	SSG1704JE	SSG1799JE	SSG1705JE	SSG1706JE
Date Sampled:	7-Jun-94	7-Jun-94	7-Jun-94	7-Jun-94	7-Jun-94	6-Jun-94	6-Jun-94	6-Jun-94	6-Jun-94	2-Jun-94	7-Jun-94	5-Aug-94	2-Jun-94	2-Jun-94
pH	8.89 :V	8.66 :V	8.74 :V	8.92 :V	8.67 :V	9.26 :V	8.89 :V	8.98 :V	9.09 :V	8.2 :V	7.91 :V	NA	7.97 :V	8.27 :V
IHSS 171														
Sample Location:	SS301793	SS301893	SS301993	SS302393	SS302393	SS302493	SS302493							
Sample Identification Number:	SSG1710JE	SSG1711JE	SSG1712JE	SSG1716JE	SSG1806JE	SSG1717JE	SSG1808JE							
Date Sampled:	9-Jun-94	8-Jun-94	8-Jun-94	8-Jun-94	8-Jun-94	9-Jun-94	9-Jun-94							
% SOLIDS BY WEIGHT	95.7 :V	88.6 :V	93.1 :V	96.7 :V	96.8 :V	96.1 :V	96.1 :V							
AREA BETWEEN IHSS 134N AND 134S														
Sample Location:	SS301493	SS301593	SS301693											
Sample Identification Number:	SSG1707JE	SSG1708JE	SSG1709JE											
Date Sampled:	13-Jun-94	13-Jun-94	13-Jun-94											
% SOLIDS BY WEIGHT	93.6 :V	96.5 :V	96.5 :V											

Notes:
IHSS = Individual Hazardous Substance Site
OU = Operable Unit

TABLE C-16
OU13 Surface-Soil Duplicates Results

Sample Location:	SS300493	SS300493	SS300893	SS300893	SS302393	SS302393	SS302493	SS302493
Sample Identification Number:	SSG1697JE	SSG1804JE	SSG1701JE	SSG1802JE	SSG1716JE	SSG1806JE	SSG1717JE	SSG1808JE
Date Sampled:	7-Jun-94	7-Jun-94	6-Jun-94	6-Jun-94	8-Jun-94	8-Jun-94	9-Jun-94	9-Jun-94
Test Group: METADD Units: mg/kg								
CESIUM	8.2 B:J	10.4 B:J	8.4 B:J	8.6 B:J	NA	NA	NA	NA
LITHIUM	6.8 B:J	7.1 B:J	6.1 B:J	6.7 B:J	NA	NA	NA	NA
MOLYBDENUM	< 2.5 :J	< 2.4 :J	< 2 :J	< 2.5 :J	NA	NA	NA	NA
STRONTIUM	16.9 B:J	16.7 B:J	21.2 B:J	23 B:J	NA	NA	NA	NA
TIN	< 2.1 :J	< 2.2 :J	< 2.2 :J	< 2.2 :J	NA	NA	NA	NA
Test Group: SMETCLP Units: mg/kg								
ALUMINUM	8410 :V	9060 :V	7380 :V	8240 :V	NA	NA	NA	NA
ANTIMONY	< 2.7 :J	< 2.7 :J	< 2.8 :J	< 2.8 :J	NA	NA	NA	NA
ARSENIC	4.8 :V	4.9 :V	5.2 :V	5.7 :V	NA	NA	NA	NA
BARIUM	76.9 :V	76.4 :V	63.5 :V	68.7 :V	NA	NA	NA	NA
BERYLLIUM	.57 B:V	.58 B:V	.58 B:V	.58 B:V	NA	NA	NA	NA
CADMIUM	< .24 :J	< .17 :V	< .17 :V	< .17 :V	NA	NA	NA	NA
CALCIUM	3940 :V	3730 :V	4690 :V	4520 :V	NA	NA	NA	NA
CHROMIUM	12.2 :V	12.7 :V	8.5 :V	9.3 :V	NA	NA	NA	NA
COBALT	4.6 B:V	4.5 B:V	4.4 B:V	4.8 B:V	NA	NA	NA	NA
COPPER	15.5 :V	14.6 :V	15 :V	15.5 :V	NA	NA	NA	NA
IRON	11100 :V	11300 :V	11100 :V	12700 :V	NA	NA	NA	NA
LEAD	32 :V	69.5 :V	11.8 :V	12.6 :V	NA	NA	NA	NA
LITHIUM	NA	NA	NA	NA	2.9 B:V	2.8 B:V	4.3 B:V	4.4 B:V
MAGNESIUM	1880 :V	1920 :V	2360 :V	2540 :V	1450 :V	1540 :V	2030 :V	2020 :V
MANGANESE	163 :V	145 :V	172 :V	180 :V	NA	NA	NA	NA
MERCURY	.081 :V	.087 B:V	.055 B:V	.059 B:V	NA	NA	NA	NA
NICKEL	8.6 :V	9.2 :V	6.9 B:V	7.5 B:V	NA	NA	NA	NA
POTASSIUM	1430 :V	1440 :V	1390 :V	1510 :V	NA	NA	NA	NA
SELENIUM	< .43 :V	< .44 :V	< .44 :V	< .45 :V	NA	NA	NA	NA
SILVER	< .84 :V	1.1 B:V	< .86 :V	< .88 :V	NA	NA	NA	NA
SODIUM	138 B:V	120 B:V	145 B:V	156 B:V	NA	NA	NA	NA
THALLIUM	< .45 :V	< .46 :V	< .46 :V	< .47 :V	NA	NA	NA	NA
VANADIUM	26.1 :V	27 :V	23.1 :V	26.5 :V	NA	NA	NA	NA
ZINC	45.2 :V	44.2 :V	49.3 :V	47.4 :V	NA	NA	NA	NA
Test Group: TRADS Units: pCi/g								
AMERICIUM-241	-.027(.01) :V	.028(.012) :V	.012(.008) :V	-.007(.006) :V	.031(.013) :V	-.022(.011) :V	-.097(.022) :V	.121(.027) :V
GROSS ALPHA	27.87(5.97) :V	-27.35(6.02) :V	25.8(5.9) :V	-19.45(5.11) :V	18.46(4.81) :V	-16.82(4.47) :V	-17.42(4.88) :V	23.78(5.61) :V
GROSS BETA	43.22(5.4) :V	-22.17(3.74) :V	-20.96(3.71) :V	35.34(4.84) :V	44.37(5.5) :V	-42.53(5.35) :V	-38.1(4.98) :V	41.35(5.26) :V
PLUTONIUM-239/240	-.078(.025) :V	.195(.047) :V	.041(.015) :V	-.015(.01) :V	.048(.02) :V	-.041(.015) :V	.135(.038) :V	-.106(.024) :V
TRITIUM	-28.9(215) J:V	25.02(204) J:V	206.9(213) J:V	-45.24(205) J:V	-40.43(218) J:V	162.6(211) J:V	-1.92(202) J:V	109.7(208) J:V
URANIUM-233,-234	3.242(.586) :A	-2.573(.36) :V	3.185(.461) :V	-1.203(.2) :V	1.256(.273) :V	-1.149(.194) :V	-1.094(.214) :V	1.155(.222) :V
URANIUM-235	.122(.082) :A	-.087(.044) :V	.116(.057) :V	-.031(.026) :V	-.012(.029) J:V	.039(.03) :V	-.044(.04) J:V	.049(.04) :V
URANIUM-238	5.265(.864) :A	-4.321(.552) :V	3.975(.553) :V	-1.38(.22) :V	-1.074(.246) :V	1.223(.202) :V	-.996(.201) :V	1.152(.221) :V
Test Group: VOA8240 Units: µg/kg								
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA
Test Group:WQPL Units:%REC								
% SOLIDS BY WEIGHT	NA	NA	NA	NA	96.7 :V	96.8 :V	96.1 :V	96.1 :V
pH	8.66 :V	8.74 :V	8.89 :V	8.98 :V	NA	NA	NA	NA

TABLE C-16
OU13 Surface-Soil Duplicates Results

Sample Location:	SS302993	SS302993	SS304593	SS304593	SS305693	SS305693	SS305893	SS305893
Sample Identification Number:	SSG1722JE	SSG1813JE	SSG1738JE	SSG1820JE	SSG1749JE	SSG1816JE	SSG1752JE	SSG1824JE
Date Sampled:	15-Jun-94	15-Jun-94	23-Jun-94	23-Jun-94	20-Jun-94	20-Jun-94	28-Jun-94	28-Jun-94
Test Group: METADD Units: mg/kg								
CESIUM	NA	NA	4.2 B:J	6.4 B:J	NA	NA	5.9 B:J	3.8 B:J
LITHIUM	NA	NA	4.2 B:J	5.1 B:J	NA	NA	6.5 B:J	6.9 B:J
MOLYBDENUM	NA	NA	< 1.5 :J	< 1.5 :J	NA	NA	< 2.7 :J	< 2.6 :J
STRONTIUM	NA	NA	11.2 B:J	12.1 B:J	NA	NA	15.2 B:J	16.7 B:J
TIN	NA	NA	< 2.2 :J	< 2.2 :J	NA	NA	< 2.1 :J	< 2 :J
Test Group: SMETCLP Units: mg/kg								
ALUMINUM	NA	NA	4500 :V	5150 :V	NA	NA	7590 :V	7910 :V
ANTIMONY	NA	NA	< 2.8 :J	< 2.8 :J	NA	NA	< 2.6 :J	< 2.5 :J
ARSENIC	NA	NA	2.7 :V	3.1 :V	NA	NA	4.6 :V	4.6 :V
BARIUM	NA	NA	36.1 B:V	39.7 B:V	NA	NA	52.7 :V	95.7 :V
BERYLLIUM	NA	NA	< .38 :J	< .36 :J	NA	NA	< .5 :J	< .52 :J
CADMIUM	NA	NA	< .17 :J	< .17 :R	NA	NA	< .16 :R	.35 B:J
CALCIUM	NA	NA	4370 :V	5180 :V	NA	NA	2850 :V	3020 :V
CHROMIUM	NA	NA	8 :V	9.6 :V	NA	NA	18.4 :V	19.3 :V
COBALT	NA	NA	3 B:V	3.6 B:V	NA	NA	4.6 B:V	5.5 B:V
COPPER	NA	NA	287 :V	13 :V	NA	NA	21.5 :V	22 :V
IRON	NA	NA	7160 :V	8530 :V	NA	NA	12500 :V	13300 :V
LEAD	NA	NA	29.4 :V	41.7 :V	NA	NA	47.9 :V	55.5 :V
LITHIUM	4.7 B:V	7.2 B:V	NA	NA	NA	NA	NA	NA
MAGNESIUM	NA	NA	1150 :V	1300 :V	NA	NA	2580 :V	2750 :V
MANGANESE	NA	NA	99.8 :V	118 :V	NA	NA	191 :V	352 :V
MERCURY	NA	NA	< .05 :V	< .052 :V	NA	NA	.07 B:V	.052 B:V
NICKEL	NA	NA	< 5.5 :J	< 6.5 :J	NA	NA	12.7 :V	12.8 :V
POTASSIUM	NA	NA	1310 :V	1400 :V	NA	NA	1230 :V	1340 :V
SELENIUM	NA	NA	< .59 :V	< .6 :V	NA	NA	< .55 :V	.72 B:V
SILVER	NA	NA	< .87 :V	< .88 :V	NA	NA	< .81 :V	.78 B:V
SODIUM	NA	NA	< 91.6 :J	< 92.5 :J	NA	NA	252 B:V	273 B:V
THALLIUM	NA	NA	< .46 :V	< .47 :V	NA	NA	< .43 :V	< .42 :V
VANADIUM	NA	NA	13 :V	15.4 :V	NA	NA	23.9 :V	26.2 :V
ZINC	NA	NA	57.9 :V	52.9 :V	NA	NA	240 :V	257 :V
Test Group: TRADS Units: pCi/g								
AMERICIUM-241	.032(.013) :V	-.018(.01) :V	.12(.026) :V	-.044(.015) :V	-.221(.034) :V	.237(.038) :V	-.092(.03) :V	.169(.031) :V
GROSS ALPHA	24.49(5.49) :V	-21.09(5.12) :V	25.72(5.73) :V	-20.59(5.03) :V	-24.12(5.52) :V	25.61(5.73) :V	-19.37(4.82) :V	22.82(5.37) :V
GROSS BETA	-32.13(4.51) :V	36.73(4.89) :V	-37.79(4.97) :V	43.74(5.42) :V	38.87(5.04) :V	-38.56(5.01) :V	42.04(4.23) :V	-40.46(4.11) :V
PLUTONIUM-239/240	.062(.023) :V	-.047(.023) :V	.642(.113) :V	-.139(.032) :V	-1.287(.177) :V	1.78(.2) :V	-.213(.048) :V	.225(.043) :V
TRITIUM	-53.87(199) X:V	95.23(202) X:V	-26.9(201) J:V	-86.6(200) J:V	-2.886(202) J:V	13.47(203) J:V	-1.93(206) J:V	-117(200) J:V
URANIUM-233,-234	1.563(.258) :V	-1.247(.312) :A	1.342(.259) :V	-1.242(.266) :V	1.323(.27) :V	-1.289(.24) :V	1.535(.253) :V	-1.231(.245) :V
URANIUM-235	.075(.045) :V	-.069(.067) J:A	-.025(.032) J:V	.039(.043) J:V	.058(.048) :V	-.058(.042) :V	.049(.037) :V	-.049(.043) J:V
URANIUM-238	2.002(.309) :V	-1.426(.34) :A	1.191(.238) :V	-1.136(.25) :V	-1.684(.32) :V	1.703(.292) :V	-1.379(.234) :V	1.443(.274) :V
Test Group: VOA8240 Units: µg/kg								
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA	NA	NA
ACETONE	NA	NA	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA	NA	NA
Test Group:WQPL Units:%REC								
% SOLIDS BY WEIGHT	93.3 :V	92.7 :V	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	NA	NA

TABLE C-16
OU13 Surface-Soil Duplicates Results

Sample Location:	SS306993	SS306993	SS307993	SS307993	SS309793	SS309793
Sample Identification Number:	SSG1762JE	SSG1828JE	SSG1773JE	SSG1832JE	SSG1791JE	SSG1836JE
Date Sampled:	5-Jul-94	5-Jul-94	8-Jul-94	8-Jul-94	14-Jul-94	14-Jul-94
Test Group: METADD Units: mg/kg						
CESIUM	8.2 B:J	4.2 B:J	< 3.3 :J	5.9 B:J	< 5.9 :J	< 7.7 :J
LITHIUM	13.1 B:J	12.2 B:J	7.2 B:J	7.2 B:J	4.7 B:J	5.1 B:J
MOLYBDENUM	5.4 B:J	5.1 B:V	3.8 B:V	3.6 B:V	2.1 B:V	2.1 B:V
STRONTIUM	50.2 :J	49 :J	30.5 B:J	29.5 B:J	12.1 B:J	12.4 B:J
TIN	< 2.2 :J	< 2.2 :J	< 2.2 :J	< 2.1 :J	< 2.1 :J	< 2 :J
Test Group: SMETCLP Units: mg/kg						
ALUMINUM	15100 I:J	13200 I:J	13000 I:J	13000 I:J	4650 :V	5040 :V
ANTIMONY	< 2.7 :J	4.1 B:J	< 2.7 :J	< 2.6 :J	< 2.6 :J	< 2.5 :J
ARSENIC	7.3 :V	6.6 :V	8.4 :V	8.6 :V	2.6 :V	2.5 :V
BARIUM	111 I:J	108 I:J	98.5 I:J	96.5 I:J	43.6 :V	46.5 :V
BERYLLIUM	.63 B:V	.59 B:V	1.1 :V	1 :V	.26 B:V	.27 B:V
CADMIUM	< .87 :J	< .86 :J	< .42 :J	< .24 :J	.59 B:V	.57 B:V
CALCIUM	5370 :V	5200 :V	13000 :V	11300 :V	1910 :V	2110 :V
CHROMIUM	75.9 :V	64.2 :V	16.4 :V	16.1 :V	12.9 :J	15.3 :J
COBALT	8.8 B:V	8.5 B:V	6.3 B:V	6.1 B:V	4 B:V	4 B:V
COPPER	43.4 :V	38.9 :V	11.3 :V	11.6 :V	18.6 :V	17.3 :V
IRON	18700 I:J	17300 I:J	14500 I:J	14700 I:J	9680 :V	10700 :V
LEAD	62.4 :V	50.3 :V	19.6 :V	18 :V	37.2 :V	52.2 :V
LITHIUM	NA	NA	NA	NA	NA	NA
MAGNESIUM	4580 I:J	4420 I:J	2150 I:J	2120 I:J	2040 :V	2130 :V
MANGANESE	323 I:J	283 I:J	174 I:J	161 I:J	176 :V	187 :V
MERCURY	< .048 :V	.052 B:V	.079 B:V	.078 B:V	< .05 :V	< .05 :V
NICKEL	30.2 :V	27.5 :V	13.2 :V	12.8 :V	8.6 :V	8.6 :V
POTASSIUM	3390 I:J	3260 I:J	1460 I:J	1410 I:J	1050 :V	1080 :V
SELENIUM	1.3 :V	1.1 :V	1.1 :V	.87 B:V	< .55 :V	< .54 :V
SILVER	1.6 B:V	1.3 B:V	2.7 :V	2.3 :V	< .81 :V	.96 B:V
SODIUM	87.6 B:J	100 B:V	< 70 :J	< 65.9 :J	176 B:V	232 B:V
THALLIUM	< .45 :V	< .46 :V	< .45 :V	< .43 :V	< .43 :V	< .42 :V
VANADIUM	37 I:J	33.9 I:J	33.2 I:J	32.8 I:J	17.6 :V	18.8 :V
ZINC	302 :V	270 :V	64.2 :V	58.4 :V	395 :V	416 :V
Test Group: TRADS Units: pCi/g						
AMERICIUM-241	.052(.015) :V	-.027(.011) :V	.019(.01) :V	-.005(.005) J:V	.02(.009) :V	-.016(.008) J:V
GROSS ALPHA	-23.54(5.48) :V	25.78(5.73) :V	25.37(5.78) :V	-23.11(5.52) :V	4.9(2.1) :A	-3.7(2.2) J:A
GROSS BETA	-38.85(3.99) :V	39.97(4.07) :V	-33.84(3.7) :V	39.97(4.08) :V	-12(2.9) :A	13(3) :A
PLUTONIUM-239/240	.104(.033) :V	-.09(.024) :V	.099(.023) :V	-.02(.013) :V	-.044(.009) B:V	.045(.011) B:V
TRITIUM	-9.65(212) J:V	-82(208) J:V	-53.1(204) J:V	2.896(207) J:V	-64(360) U:V	-290(390) U:V
URANIUM-233,-234	-1.609(.24) :V	1.681(.25) :V	-1.245(.218) :V	1.735(.257) :V	.28(.1) J:V	-.2(.091) J:V
URANIUM-235	-.037(.028) :V	.076(.039) :V	.032(.029) J:V	-.023(.021) :V	-.017(.034) U:V	.011(.022) U:V
URANIUM-238	-1.567(.236) :V	1.715(.253) :V	-1.311(.225) :V	1.553(.237) :V	.34(.1) :V	-.29(.11) J:V
Test Group: VOA8240 Units: µg/kg						
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,1-DICHLOROETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,1-DICHLOROETHENE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,2-DICHLOROETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
1,2-DICHLOROPROPANE	NA	NA	NA	NA	< 5 :V	< 5 :V
2-BUTANONE	NA	NA	NA	NA	< 100 :V	< 100 :V
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	< 10 :V	< 10 :V
2-HEXANONE	NA	NA	NA	NA	< 50 :V	< 50 :V
4-METHYL-2-PENTANONE	NA	NA	NA	NA	< 50 :V	< 50 :V
ACETONE	NA	NA	NA	NA	< 100 :J	< 100 :J
BENZENE	NA	NA	NA	NA	< 5 :V	< 5 :V
BROMODICHLOROMETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
BROMOFORM	NA	NA	NA	NA	< 5 :V	< 5 :V
BROMOMETHANE	NA	NA	NA	NA	< 10 :J	< 10 :J
CARBON DISULFIDE	NA	NA	NA	NA	< 5 :V	< 5 :V
CARBON TETRACHLORIDE	NA	NA	NA	NA	< 5 :V	< 5 :V
CHLOROBENZENE	NA	NA	NA	NA	< 5 :V	< 5 :V
CHLOROETHANE	NA	NA	NA	NA	< 10 :V	< 10 :V
CHLOROFORM	NA	NA	NA	NA	< 5 :V	< 5 :V
CHLOROMETHANE	NA	NA	NA	NA	< 10 :V	< 10 :V
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	< 5 :V	< 5 :V
ETHYLBENZENE	NA	NA	NA	NA	< 5 :V	< 5 :V
METHYLENE CHLORIDE	NA	NA	NA	NA	< 5 :J	< 5 :J
STYRENE	NA	NA	NA	NA	< 5 :V	< 5 :V
TETRACHLOROETHENE	NA	NA	NA	NA	< 5 :V	< 5 :V
TOLUENE	NA	NA	NA	NA	< 5 :V	< 5 :V
TOTAL XYLENES	NA	NA	NA	NA	< 5 :V	< 5 :V
TRICHLOROETHENE	NA	NA	NA	NA	< 5 :V	< 5 :V
VINYL ACETATE	NA	NA	NA	NA	< 50 :V	< 50 :V
VINYL CHLORIDE	NA	NA	NA	NA	< 10 :V	< 10 :V
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	< 5 :V	< 5 :V
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	< 5 :V	< 5 :V
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	< 5 :V	< 5 :V
Test Group:WQPL Units:%REC						
% SOLIDS BY WEIGHT	NA	NA	NA	NA	NA	NA
pH	NA	NA	7.93 :V	8.01 :V	NA	NA

Notes:
mg/kg = milligrams per kilogram
pCi/g = picocuries per gram
µg/kg = micrograms per kilogram

TABLE C-17
OU13 Surface-Soil Duplicates Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group: METADD Units: mg/kg								
CESIUM	1000	3.3	SS307993 (1)	7.7	SS309793 (1)	3.8 B:J	SS305893 (1)	10.4 B:J
LITHIUM	100	**	**	**	**	4.2 B:J	SS304593 (1)	13.1 B:J
MOLYBDENUM	200	1.5	SS304593 (2)	2.7	SS305893 (1)	2.1 B:V	SS309793 (2)	5.4 B:J
STRONTIUM	200	**	**	**	**	11.2 B:J	SS304593 (1)	50.2 :J
TIN	200	2	SS305893 (2)	2.2	SS300493 (8)			
Test Group: SMETCLP Units mg/kg								
ALUMINUM	200	**	**	**	**	4500 :V	SS304593 (1)	15100 I:J
ANTIMONY	60	2.5	SS305893 (2)	2.8	SS300893 (4)	4.1 B:J	SS306993 (1)	4.1 B:J
ARSENIC	10	**	**	**	**	2.5 :V	SS309793 (1)	8.6 :V
BARIUM	200	**	**	**	**	36.1 B:V	SS304593 (1)	111 I:J
BERYLLIUM	5	0.36	SS304593 (1)	0.52	SS305893 (1)	.26 B:V	SS309793 (1)	1.1 :V
CADMIUM	5	0.17	SS300493 (4)	0.87	SS306993 (1)	.35 B:J	SS305893 (1)	.59 B:V
CALCIUM	5000	**	**	**	**	1910 :V	SS309793 (1)	13000 :V
CHROMIUM	10	**	**	**	**	8 :V	SS304593 (1)	75.9 :V
COBALT	50	**	**	**	**	3 B:V	SS304593 (1)	8.8 B:V
COPPER	25	**	**	**	**	11.3 :V	SS307993 (1)	287 :V
IRON	100	**	**	**	**	7160 :V	SS304593 (1)	18700 I:J
LEAD	3	**	**	**	**	11.8 :V	SS300893 (1)	69.5 :V
LITHIUM	0.25	**	**	**	**	2.8 B:V	SS302393 (1)	7.2 B:V
MAGNESIUM	5000	**	**	**	**	1150 :V	SS304593 (1)	4580 I:J
MANGANESE	15	**	**	**	**	99.8 :V	SS304593 (1)	352 :V
MERCURY	0.2	0.05	SS306993 (1)	0.05	SS304593 (1)	.052 B:V	SS305893 (2)	.087 B:V
NICKEL	40	5.5	SS304593 (1)	6.5	SS304593 (1)	6.9 B:V	SS300893 (1)	30.2 :V
POTASSIUM	5000	**	**	**	**	1050 :V	SS309793 (1)	3390 I:J
SELENIUM	5	0.43	SS300493 (1)	0.6	SS304593 (1)	.72 B:V	SS305893 (1)	1.3 :V
SILVER	10	0.81	SS305893 (2)	0.88	SS300893 (2)	.78 B:V	SS305893 (1)	2.7 :V
SODIUM	5000	65.9	SS307993 (1)	92.5	SS304593 (1)	87.6 B:J	SS306993 (1)	273 B:V
THALLIUM	10	0.42	SS305893 (2)	0.47	SS300893 (2)			
VANADIUM	50	**	**	**	**	13 :V	SS304593 (1)	37 I:J
ZINC	20	**	**	**	**	44.2 :V	SS300493 (1)	416 :V
Test Group: TRADS Units: pCi/g								
AMERICIUM-241	0.01	**	**	**	**	-.221(.034) :V	SS305693 (1)	.237(.038) :V
GROSS ALPHA	3	**	**	**	**	-27.35(6.02) :V	SS300493 (1)	27.87(5.97) :V
GROSS BETA	4	**	**	**	**	-42.53(5.35) :V	SS302393 (1)	44.37(5.5) :V
PLUTONIUM-239/240	0.005	**	**	**	**	-1.287(.177) :V	SS305693 (1)	1.78(.2) :VV
TRITIUM	700	**	**	**	**	-290(390) U:V	SS309793 (1)	206.9(213) J:V
URANIUM-233,-234	0.09	**	**	**	**	-2.573(.36) :V	SS300493 (1)	3.242(.586) :A
URANIUM-235	0.08	**	**	**	**	-.087(.044) :V	SS300493 (1)	.122(.082) :A
URANIUM-238	0.07	**	**	**	**	-4.321(.552) :V	SS300493 (1)	5.265(.864) :A
Test Group: VOA8240 Units: µg/kg								
1,1,1-TRICHLOROETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
1,1,2,2-TETRACHLOROETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
1,1,2-TRICHLOROETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
1,1-DICHLOROETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
1,1-DICHLOROETHENE	5	5	SS309793 (2)	5	SS309793 (2)			
1,2-DICHLOROETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
1,2-DICHLOROPROPANE	5	5	SS309793 (2)	5	SS309793 (2)			
2-BUTANONE	100	100	SS309793 (2)	100	SS309793 (2)			
2-CHLOROETHYL VINYL ETHER	10	10	SS309793 (2)	10	SS309793 (2)			
2-HEXANONE	50	50	SS309793 (2)	50	SS309793 (2)			
4-METHYL-2-PENTANONE	50	50	SS309793 (2)	50	SS309793 (2)			
ACETONE	100	100	SS309793 (2)	100	SS309793 (2)			
BENZENE	5	5	SS309793 (2)	5	SS309793 (2)			
BROMODICHLOROMETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
BROMOFORM	5	5	SS309793 (2)	5	SS309793 (2)			
BROMOMETHANE	10	10	SS309793 (2)	10	SS309793 (2)			
CARBON DISULFIDE	5	5	SS309793 (2)	5	SS309793 (2)			
CARBON TETRACHLORIDE	5	5	SS309793 (2)	5	SS309793 (2)			
CHLOROBENZENE	5	5	SS309793 (2)	5	SS309793 (2)			
CHLOROETHANE	10	10	SS309793 (2)	10	SS309793 (2)			
CHLOROFORM	5	5	SS309793 (2)	5	SS309793 (2)			
CHLOROMETHANE	10	10	SS309793 (2)	10	SS309793 (2)			
DIBROMOCHLOROMETHANE	5	5	SS309793 (2)	5	SS309793 (2)			
ETHYLBENZENE	5	5	SS309793 (2)	5	SS309793 (2)			
METHYLENE CHLORIDE	5	5	SS309793 (2)	5	SS309793 (2)			
STYRENE	5	5	SS309793 (2)	5	SS309793 (2)			
TETRACHLOROETHENE	5	5	SS309793 (2)	5	SS309793 (2)			
TOLUENE	5	5	SS309793 (2)	5	SS309793 (2)			
TOTAL XYLENES	5	5	SS309793 (2)	5	SS309793 (2)			
TRICHLOROETHENE	5	5	SS309793 (2)	5	SS309793 (2)			
VINYL ACETATE	50	50	SS309793 (2)	50	SS309793 (2)			
VINYL CHLORIDE	10	10	SS309793 (2)	10	SS309793 (2)			
cis-1,3-DICHLOROPROPENE	5	5	SS309793 (2)	5	SS309793 (2)			
trans-1,2-DICHLOROETHENE	5	5	SS309793 (2)	5	SS309793 (2)			
trans-1,3-DICHLOROPROPENE	5	5	SS309793 (2)	5	SS309793 (2)			
Test Group:WQPL Units:%REC								
% SOLIDS BY WEIGHT	0.1	**	**	**	**	92.7 :V	SS302993 (1)	96.8 :V
pH	0.01	**	**	**	**	7.93 :V	SS307993 (1)	8.98 :V

TABLE C-17
OU13 Surface-Soil Duplicates Data Summary

	MDL	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group: METADD Units: mg/kg					
CESIUM	1000	SS300493 (1)	11	14	5.9036
LITHIUM	100	SS306993 (1)	14	14	7.0643
MOLYBDENUM	200	SS306993 (1)	6	14	2.2107
STRONTIUM	200	SS306993 (1)	14	14	22.6214
TIN	200		0	14	0
Test Group: SMETCLP Units mg/kg					
ALUMINUM	200	SS306993 (1)	14	14	8730.714
ANTIMONY	60	SS306993 (1)	1	14	1.5357
ARSENIC	10	SS307993 (1)	14	14	5.1143
BARIUM	200	SS306993 (1)	14	14	72.4143
BERYLLIUM	5	SS307993 (1)	10	14	0.5029
CADMIUM	5	SS309793 (1)	3	12	0.2637
CALCIUM	5000	SS307993 (1)	14	14	5085
CHROMIUM	10	SS306993 (1)	14	14	21.3429
COBALT	50	SS306993 (1)	14	14	5.1929
COPPER	25	SS304593 (1)	14	14	38.9429
IRON	100	SS306993 (1)	14	14	12376.43
LEAD	3	SS300493 (1)	14	14	38.5786
LITHIUM	0.25	SS302993 (1)	6	6	4.3833
MAGNESIUM	5000	SS306993 (1)	18	18	2275.556
MANGANESE	15	SS305893 (1)	14	14	194.6286
MERCURY	0.2	SS300493 (1)	9	14	0.0527
NICKEL	40	SS306993 (1)	12	14	11.7571
POTASSIUM	5000	SS306993 (1)	14	14	1621.429
SELENIUM	5	SS306993 (1)	5	14	0.5275
SILVER	10	SS307993 (1)	7	14	0.9796
SODIUM	5000	SS305893 (1)	10	14	131.4
THALLIUM	10		0	14	0
VANADIUM	50	SS306993 (1)	14	14	25.3214
ZINC	20	SS309793 (1)	14	14	164.25
Test Group: TRADS Units: pCi/g					
AMERICIUM-241	0.01	SS305693 (1)	22	22	0.012
GROSS ALPHA	3	SS300493 (1)	22	22	1.5473
GROSS BETA	4	SS302393 (1)	22	22	2.7823
PLUTONIUM-239/240	0.005	SS305693 (1)	22	22	0.0589
TRITIUM	700	SS300893 (1)	22	22	-13.1186
URANIUM-233,-234	0.09	SS300493 (1)	22	22	0.1916
URANIUM-235	0.08	SS300493 (1)	22	22	0.0097
URANIUM-238	0.07	SS300493 (1)	22	22	0.2272
Test Group: VOA8240 Units: µg/kg					
1,1,1-TRICHLOROETHANE	5		0	2	0
1,1,2,2-TETRACHLOROETHANE	5		0	2	0
1,1,2-TRICHLOROETHANE	5		0	2	0
1,1-DICHLOROETHANE	5		0	2	0
1,1-DICHLOROETHENE	5		0	2	0
1,2-DICHLOROETHANE	5		0	2	0
1,2-DICHLOROPROPANE	5		0	2	0
2-BUTANONE	100		0	2	0
2-CHLOROETHYL VINYL ETHER	10		0	2	0
2-HEXANONE	50		0	2	0
4-METHYL-2-PENTANONE	50		0	2	0
ACETONE	100		0	2	0
BENZENE	5		0	2	0
BROMODICHLOROMETHANE	5		0	2	0
BROMOFORM	5		0	2	0
BROMOMETHANE	10		0	2	0
CARBON DISULFIDE	5		0	2	0
CARBON TETRACHLORIDE	5		0	2	0
CHLOROBENZENE	5		0	2	0
CHLOROETHANE	10		0	2	0
CHLOROFORM	5		0	2	0
CHLOROMETHANE	10		0	2	0
DIBROMOCHLOROMETHANE	5		0	2	0
ETHYLBENZENE	5		0	2	0
METHYLENE CHLORIDE	5		0	2	0
STYRENE	5		0	2	0
TETRACHLOROETHENE	5		0	2	0
TOLUENE	5		0	2	0
TOTAL XYLENES	5		0	2	0
TRICHLOROETHENE	5		0	2	0
VINYL ACETATE	50		0	2	0
VINYL CHLORIDE	10		0	2	0
cis-1,3-DICHLOROPROPENE	5		0	2	0
trans-1,2-DICHLOROETHENE	5		0	2	0
trans-1,3-DICHLOROPROPENE	5		0	2	0
Test Group:WQPL Units:%REC					
% SOLIDS BY WEIGHT	0.1	SS302393 (1)	6	6	95.2833
pH	0.01	SS300893 (1)	6	6	8.535

Notes:
mg/kg = milligrams per kilogram
pCi/g = picocuries per gram
µg/kg = micrograms per kilogram

TABLE C-18
OU13 Surface-Soil Duplicates Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS300493 SSG1697JE 7-Jun-94	SS300493 SSG1804JE 7-Jun-94	SS300893 SSG1701JE 6-Jun-94	SS300893 SSG1802JE 6-Jun-94	SS302393 SSG1716JE 8-Jun-94	SS302393 SSG1806JE 8-Jun-94
Test Group: METADD Units: mg/kg							
CESIUM	1000	8.2 B:JA	10.4 B:JA	8.4 B:JA	8.6 B:JA		
LITHIUM	100	6.8 B:JA	7.1 B:JA	6.1 B:JA	6.7 B:JA		
MOLYBDENUM	200						
STRONTIUM	200	16.9 B:JA	16.7 B:JA	21.2 B:JA	23 B:JA		
Test Group: SMETCLP Units: mg/kg							
ALUMINUM	200	8410 :V	9060 :V	7380 :V	8240 :V		
ANTIMONY	60						
ARSENIC	10	4.8 :V*	4.9 :V*	5.2 :V*	5.7 :V*		
BARIUM	200	76.9 :V	76.4 :V	63.5 :V	68.7 :V		
BERYLLIUM	5	.57 B:V*	.58 B:V*	.58 B:V*	.58 B:V*		
CADMIUM	5						
CALCIUM	5000	3940 :V	3730 :V	4690 :V	4520 :V		
CHROMIUM	10	12.2 :V	12.7 :V	8.5 :V	9.3 :V		
COBALT	50	4.6 B:V	4.5 B:V	4.4 B:V	4.8 B:V		
COPPER	25	15.5 :V	14.6 :V	15 :V	15.5 :V		
IRON	100	11100 :V	11300 :V	11100 :V	12700 :V		
LEAD	3	32 :V	69.5 :V#	11.8 :V	12.6 :V		
LITHIUM	100					2.9 B:V	2.8 B:V
MAGNESIUM	5000	1880 :V	1920 :V	2360 :V	2540 :V	1450 :V	1540 :V
MANGANESE	15	163 :V	145 :V	172 :V	180 :V		
MERCURY	0.2	.081 :V	.087 B:V	.055 B:V	.059 B:V		
NICKEL	40	8.6 :V	9.2 :V	6.9 B:V	7.5 B:V		
POTASSIUM	5000	1430 :V	1440 :V	1390 :V	1510 :V		
SELENIUM	5						
SILVER	10		1.1 B:V				
SODIUM	5000	138 B:V	120 B:V	145 B:V	156 B:V		
VANADIUM	50	26.1 :V	27 :V	23.1 :V	26.5 :V		
ZINC	20	45.2 :V	44.2 :V	49.3 :V	47.4 :V		
Test Group: TRADS Units: pCi/g							
AMERICIUM-241	0	.027(.01) :V	.028(.012) :V	.012(.008) :V	.007(.006) :V	.031(.013) :V	.022(.011) :V
GROSS ALPHA	0	27.87(5.97) :V	27.35(6.02) :V	25.8(5.9) :V	19.45(5.11) :V	18.46(4.81) :V	16.82(4.47) :V
GROSS BETA	0	43.22(5.4) :V	22.17(3.74) :V	20.96(3.71) :V	35.34(4.84) :V	44.37(5.5) :V	42.53(5.35) :V
PLUTONIUM-239/240	0	.078(.025) :V	.195(.047) :V	.041(.015) :V	.015(.01) :V	.048(.02) :V	.041(.015) :V
TRITIUM	0	-28.9(215) J:V	25.02(204) J:V	206.9(213) J:V	45.24(205) J:V	40.43(218) J:V	162.6(211) J:V
URANIUM-233,-234	0	3.242(.586) :A	2.573(.36) :V	3.185(.461) :V	1.203(.2) :V	1.256(.273) :V	1.149(.194) :V
URANIUM-235	0	.122(.082) :A	.087(.044) :V	.116(.057) :V	.031(.026) :V	.012(.029) J:V	.039(.03) :V
URANIUM-238	0	5.265(.864) :A	4.321(.552) :V	3.975(.553) :V	1.38(.22) :V	1.074(.246) :V	1.223(.202) :V
Test Group:WQPL Units:%REC							
% SOLIDS BY WEIGHT	0					96.7 :V-	96.8 :V-

TABLE C-18
OU13 Surface-Soil Duplicates Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS302493 SSG1717JE 9-Jun-94	SS302493 SSG1808JE 9-Jun-94	SS302993 SSG1722JE 15-Jun-94	SS302993 SSG1813JE 15-Jun-94	SS304593 SSG1738JE 23-Jun-94	SS304593 SSG1820JE 23-Jun-94	SS305693 SSG1749JE 20-Jun-94	SS305693 SSG1816JE 20-Jun-94
Test Group: METADD Units: mg/kg									
CESIUM	1000					4.2 B:JA	6.4 B:JA		
LITHIUM	100					4.2 B:JA	5.1 B:JA		
MOLYBDENUM	200								
STRONTIUM	200					11.2 B:JA	12.1 B:JA		
Test Group: SMETCLP Units: mg/kg									
ALUMINUM	200					4500 :V	5150 :V		
ANTIMONY	60								
ARSENIC	10					2.7 :V*	3.1 :V*		
BARIUM	200					36.1 B:V	39.7 B:V		
BERYLLIUM	5								
CADMIUM	5								
CALCIUM	5000					4370 :V	5180 :V		
CHROMIUM	10					8 :V	9.6 :V		
COBALT	50					3 B:V	3.6 B:V		
COPPER	25					287 :V#	13 :V		
IRON	100					7160 :V	8530 :V		
LEAD	3					29.4 :V	41.7 :V		
LITHIUM	100	4.3 B:V	4.4 B:V	4.7 B:V	7.2 B:V				
MAGNESIUM	5000	2030 :V	2020 :V			1150 :V	1300 :V		
MANGANESE	15					99.8 :V	118 :V		
MERCURY	0.2								
NICKEL	40								
POTASSIUM	5000					1310 :V	1400 :V		
SELENIUM	5								
SILVER	10								
SODIUM	5000								
VANADIUM	50					13 :V	15.4 :V		
ZINC	20					57.9 :V	52.9 :V		
Test Group: TRADS Units: pCi/g									
AMERICIUM-241	0	.097(.022) :V	.121(.027) :V	.032(.013) :V	.018(.01) :V	.12(.026) :V	.044(.015) :V	.221(.034) :V	.237(.038) :V
GROSS ALPHA	0	17.42(4.88) :V	23.78(5.61) :V	24.49(5.49) :V	21.09(5.12) :V	25.72(5.73) :V	20.59(5.03) :V	24.12(5.52) :V	25.61(5.73) :V
GROSS BETA	0	38.1(4.98) :V	41.35(5.26) :V	32.13(4.51) :V	36.73(4.89) :V	37.79(4.97) :V	43.74(5.42) :V	38.87(5.04) :V	38.56(5.01) :V
PLUTONIUM-239/240	0	.135(.038) :V	.106(.024) :V	.062(.023) :V	.047(.023) :V	.642(.113) :V	.139(.032) :V	1.287(.177) :V	1.78(.2) :V
TRITIUM	0	-1.92(202) J:V	109.7(208) J:V	53.87(199) X:V	95.23(202) X:V	-26.9(201) J:V	-86.6(200) J:V	2.886(202) J:V	13.47(203) J:V
URANIUM-233,-234	0	1.094(.214) :V	1.155(.222) :V	1.563(.258) :V	1.247(.312) :A	1.342(.259) :V	1.242(.266) :V	1.323(.27) :V	1.289(.24) :V
URANIUM-235	0	.044(.04) J:V	.049(.04) :V	.075(.045) :V	.069(.067) J:A	.025(.032) J:V	.039(.043) J:V	.058(.048) :V	.058(.042) :V
URANIUM-238	0	.996(.201) :V	1.152(.221) :V	2.002(.309) :V	1.426(.34) :A	1.191(.238) :V	1.136(.25) :V	1.684(.32) :V	1.703(.292) :V
Test Group:WQPL Units:%REC									
% SOLIDS BY WEIGHT	0	96.1 :V-	96.1 :V-	93.3 :V-	92.7 :V-				

TABLE C-18

OU13 Surface-Soil Duplicates Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS305893 SSG1752JE 28-Jun-94	SS305893 SSG1824JE 28-Jun-94	SS306993 SSG1762JE 5-Jul-94	SS306993 SSG1828JE 5-Jul-94	SS307993 SSG1773JE 8-Jul-94	SS307993 SSG1832JE 8-Jul-94	SS309793 SSG1791JE 14-Jul-94	SS309793 SSG1836JE 14-Jul-94
Test Group: METADD Units: mg/kg									
CESIUM	1000	5.9 B:JA	3.8 B:JA	8.2 B:JA	4.2 B:JA		5.9 B:JA		
LITHIUM	100	6.5 B:JA	6.9 B:JA	13.1 B:JA	12.2 B:JA	7.2 B:JA	7.2 B:JA	4.7 B:JA	5.1 B:JA
MOLYBDENUM	200			5.4 B:JA	5.1 B:V	3.8 B:V	3.6 B:V	2.1 B:V	2.1 B:V
STRONTIUM	200	15.2 B:JA	16.7 B:JA	50.2 :JA	49 :JA	30.5 B:JA	29.5 B:JA	12.1 B:JA	12.4 B:JA
Test Group: SMETCLP Units: mg/kg									
ALUMINUM	200	7590 :V	7910 :V	15100 I:JA	13200 I:JA	13000 I:JA	13000 I:JA	4650 :V	5040 :V
ANTIMONY	60				4.1 B:JA				
ARSENIC	10	4.6 :V*	4.6 :V*	7.3 :V*	6.6 :V*	8.4 :V*	8.6 :V*	2.6 :V*	2.5 :V*
BARIUM	200	52.7 :V	95.7 :V	111 I:JA	108 I:JA	98.5 I:JA	96.5 I:JA	43.6 :V	46.5 :V
BERYLLIUM	5			.63 B:V*	.59 B:V*	1.1 :V*	1 :V*	.26 B:V*	.27 B:V*
CADMIUM	5		.35 B:JA					.59 B:V	.57 B:V
CALCIUM	5000	2850 :V	3020 :V	5370 :V	5200 :V	13000 :V	11300 :V	1910 :V	2110 :V
CHROMIUM	10	18.4 :V	19.3 :V	75.9 :V#	64.2 :V#	16.4 :V	16.1 :V	12.9 :JA	15.3 :JA
COBALT	50	4.6 B:V	5.5 B:V	8.8 B:V	8.5 B:V	6.3 B:V	6.1 B:V	4 B:V	4 B:V
COPPER	25	21.5 :V	22 :V	43.4 :V#	38.9 :V#	11.3 :V	11.6 :V	18.6 :V	17.3 :V
IRON	100	12500 :V	13300 :V	18700 I:JA	17300 I:JA	14500 I:JA	14700 I:JA	9680 :V	10700 :V
LEAD	3	47.9 :V	55.5 :V	62.4 :V#	50.3 :V	19.6 :V	18 :V	37.2 :V	52.2 :V
LITHIUM	100								
MAGNESIUM	5000	2580 :V	2750 :V	4580 I:JA	4420 I:JA	2150 I:JA	2120 I:JA	2040 :V	2130 :V
MANGANESE	15	191 :V	352 :V	323 I:JA	283 I:JA	174 I:JA	161 I:JA	176 :V	187 :V
MERCURY	0.2	.07 B:V	.052 B:V		.052 B:V	.079 B:V	.078 B:V		
NICKEL	40	12.7 :V	12.8 :V	30.2 :V#	27.5 :V#	13.2 :V	12.8 :V	8.6 :V	8.6 :V
POTASSIUM	5000	1230 :V	1340 :V	3390 I:JA	3260 I:JA	1460 I:JA	1410 I:JA	1050 :V	1080 :V
SELENIUM	5		.72 B:V	1.3 :V	1.1 :V	1.1 :V	.87 B:V		
SILVER	10		.78 B:V	1.6 B:V	1.3 B:V	2.7 :V	2.3 :V		.96 B:V
SODIUM	5000	252 B:V	273 B:V	87.6 B:JA	100 B:V			176 B:V	232 B:V
VANADIUM	50	23.9 :V	26.2 :V	37 I:JA	33.9 I:JA	33.2 I:JA	32.8 I:JA	17.6 :V	18.8 :V
ZINC	20	240 :V#	257 :V#	302 :V#	270 :V#	64.2 :V	58.4 :V	395 :V#	416 :V#
Test Group: TRADS Units: pCi/g									
AMERICIUM-241	0	.092(.03) :V	.169(.031) :V	.052(.015) :V	.027(.011) :V	.019(.01) :V	.005(.005) J:V	.02(.009) :V	.016(.008) J:V
GROSS ALPHA	0	19.37(4.82) :V	22.82(5.37) :V	23.54(5.48) :V	25.78(5.73) :V	25.37(5.78) :V	23.11(5.52) :V	4.9(2.1) :A	3.7(2.2) J:A
GROSS BETA	0	42.04(4.23) :V	40.46(4.11) :V	38.85(3.99) :V	39.97(4.07) :V	33.84(3.7) :V	39.97(4.08) :V	12(2.9) :A	13(3) :A
PLUTONIUM-239/240	0	.213(.048) :V	.225(.043) :V	.104(.033) :V	.09(.024) :V	.099(.023) :V	.02(.013) :V	.044(.009) B:V	.045(.011) B:V
TRITIUM	0	-1.93(206) J:V	-117(200) J:V	-9.65(212) J:V	-82(208) J:V	-53.1(204) J:V	2.896(207) J:V		
URANIUM-233,-234	0	1.535(.253) :V	1.231(.245) :V	1.609(.24) :V	1.681(.25) :V	1.245(.218) :V	1.735(.257) :V	.28(.1) J:V	.2(.091) J:V
URANIUM-235	0	.049(.037) :V	.049(.043) J:V	.037(.028) :V	.076(.039) :V	.032(.029) J:V	.023(.021) :V		
URANIUM-238	0	1.379(.234) :V	1.443(.274) :V	1.567(.236) :V	1.715(.253) :V	1.311(.225) :V	1.553(.237) :V	.34(.1) :V	.29(.11) J:V
Test Group:WQPL Units:%REC									
% SOLIDS BY WEIGHT	0								

Notes:

mg/kg = milligrams per kilogram

pCi/g = picocuries per gram

µg/kg = micrograms per kilogram

TABLE C-19
OU13 Surface-Soil Rinsate Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS300193 SSG1751JE 22-Dec-93	SS300493 SSG1803JE 7-Jun-94	SS300893 SSG1801JE 6-Jun-94	SS301393 SSG1800JE 2-Jun-94	SS301593 SSG1809JE 13-Jun-94	SS301793 SSG1807JE 9-Jun-94	SS302293 SSG1810JE 13-Jun-94	SS302393 SSG1805JE 8-Jun-94
Test Group: METADD Units: µg/L									
CESIUM	1000				40 B:JA				
STRONTIUM	200								
Test Group: SMETCLP Units: µg/L									
ALUMINUM	200		739 :V	558 :V					
BARIUM	200		12 B:V	11.2 B:V	30.6 B:JA				
CALCIUM	5000		830 B:V						
COBALT	50	42.4 :V							
COPPER	25								
IRON	100	1050 :V							
LEAD	3	2.3 :V			1.9 B:JA				
MAGNESIUM	5000		126 B:V						
MANGANESE	15	15.4 :V	22 :V	17.4 :V					
NICKEL	40								
POTASSIUM	5000	147 :V	105 B:V	73.2 B:V	80.2 B:JA				
SELENIUM	5								
SODIUM	5000		246 B:V	191 B:V	158 B:JA				
VANADIUM	50								
Test Group: TRADS Units: pCi/g									
AMERICIUM-241	0	.002(.003) J:V	.004(.009) J:A	.004(.008) J:V	.003(.007) J:V	.001(.003) J:V	.003(.004) :V	.005(.005) J:V	.003(.005) J:V
CESIUM-134	0	-.493(.756) J:V							
CESIUM-137	0	.646(.728) X:V							
GROSS ALPHA	0	.129(.175) J:A		.051(.153) J:V	.05(.149) J:V	.13(.186) J:V	.092(.173) J:V	.239(.223) J:V	.03(.123) J:V
GROSS BETA	0	.653(.735) J:V	-.526(.701) J:V	.395(.762) J:V	.267(.697) J:V	.08(.668) J:V	.775(.78) J:V	.548(.705) J:V	.088(.725) J:V
PLUTONIUM-239/240	0	.000048(.002) J:V				.000451(.005) J:V	.004(.005) J:V	-.001(.005) J:V	.001(.002) J:V
STRONTIUM-89,90	0	-.002(.269) J:V							
TRITIUM	0	-105(226) J:V	-90.4(208) J:V	.962(212) J:V	8.666(213) J:V	87.47(217) X:V	-82.7(208) J:V	49.98(215) X:V	65.41(216) J:V
URANIUM-233,-234	0	.057(.064) J:V	.076(.092) J:V	.053(.072) J:V	.035(.07) J:V	.075(.09) J:V	.081(.103) J:V	.023(.056) J:V	-.035(.06) J:V
URANIUM-235	0	-.005(.039) J:V	.044(.071) J:V	.045(.073) J:V	.004(.042) J:V	.071(.08) J:V	.058(.079) J:V	-.015(.015) J:V	.054(.088) J:V
URANIUM-238	0	.073(.067) J:V	.032(.058) J:V	.049(.073) J:V	.012(.041) J:V	-.004(.044) J:V	.022(.067) J:V	.011(.04) J:V	.114(.112) J:V
Test Group: VOA8240 Units: µg/L									
TOLUENE	5								

TABLE C-19
OU13 Surface-Soil Rinsate Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS302793 SSG1811JE 14-Jun-94	SS302993 SSG1812JE 15-Jun-94	SS303193 SSG1814JE 16-Jun-94	SS303993 SSG1822JE 28-Jun-94	SS304193 SSG1818JE 22-Jun-94	SS304393 SSG1819JE 23-Jun-94	SS304693 SSG1821JE 27-Jun-94	SS305093 SSG1817JE 21-Jun-94
Test Group: METADD Units: µg/L									
CESIUM	1000								
STRONTIUM	200								
Test Group: SMETCLP Units: µg/L									
ALUMINUM	200								
BARIUM	200								
CALCIUM	5000								
COBALT	50								
COPPER	25				2.5 B:V	5 B:V	3.8 B:V	3.3 B:V	
IRON	100								
LEAD	3								
MAGNESIUM	5000								
MANGANESE	15								
NICKEL	40								
POTASSIUM	5000				141 B:V	529 B:V			
SELENIUM	5								
SODIUM	5000								
VANADIUM	50								
Test Group: TRADS Units: pCi/g									
AMERICIUM-241	0	.002(.004) J:V	.004(.005) J:V	-.001(.001) J:V	.001(.002) J:V	.000177(.002) J:V	.008(.007) :V	.002(.003) J:V	.004(.005) J:V
CESIUM-134	0								
CESIUM-137	0								
GROSS ALPHA	0	.163(.205) J:V	.004(.119) J:V	.008(.121) J:V	-.062(.034) J:V	.074(.145) J:V	-.004(.12) J:V	.073(.143) J:V	-.088(.041) J:V
GROSS BETA	0	.855(.79) J:V	.241(.703) J:V	.65(.74) J:V	.368(.683) J:V	.154(.653) J:V	.899(.784) J:V	1.161(.825) J:V	1.205(.819) J:V
PLUTONIUM-239/240	0	-.002(.003) J:V	-.002(.004) J:V			-.001(.002) J:V	.002(.003) J:V	-.000488(.001) J:V	-.001(.001) J:V
STRONTIUM-89,90	0								
TRITIUM	0	14.42(213) X:V	-40.4(210) J:V	-76.8(215) J:V	-77.2(214) J:V	-41.6(216) J:V	-64.7(215) J:V	26.8(220) J:V	-88.8(214) J:V
URANIUM-233,-234	0	.115(.104) J:V	.068(.082) J:V	.133(.138) J:V	.252(.193) :V		.011(.066) J:V	.043(.089) J:V	.084(.11) J:V
URANIUM-235	0	-.004(.043) J:V	.014(.037) J:V	.035(.064) J:V	.227(.182) :V	.008(.044) J:V	.018(.052) J:V	.026(.063) J:V	.004(.043) J:V
URANIUM-238	0		.021(.053) J:V	.075(.102) J:V	.807(.335) :V	.066(.096) J:V	.035(.063) J:V	.047(.076) J:V	.052(.071) J:V
Test Group: VOA8240 Units: µg/L									
TOLUENE	5								

TABLE C-19
OU13 Surface-Soil Rinsate Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS305793 SSG1815JE 20-Jun-94	SS305893 SSG1823JE 28-Jun-94	SS306093 SSG1825JE 29-Jun-94	SS306393 SSG1826JE 30-Jun-94	SS306793 SSG1829JE 6-Jul-94	SS306993 SSG1827JE 5-Jul-94	SS307493 SSG1830JE 7-Jul-94	SS307993 SSG1831JE 8-Jul-94
Test Group: METADD Units: µg/L									
CESIUM	1000								
STRONTIUM	200		9 B:V						
Test Group: SMETCLP Units: µg/L									
ALUMINUM	200		2480 :V	176 :JA	228 :V	118 :V	105 B:V	25.9 B:V	
BARIUM	200		19.9 B:V						
CALCIUM	5000		2770 B:V						
COBALT	50								
COPPER	25		4.4 B:V						
IRON	100		225 :V	10.6 B:JA					
LEAD	3			5.5 :JA	3.9 :JA	8.2 :JA	2.7 B:JA	5.9 :JA	3.3 :JA
MAGNESIUM	5000		384 B:V	35.4 B:JA					
MANGANESE	15		76.7 :V	4.4 B:JA	5.6 B:V	2.2 B:V			
NICKEL	40					7 B:V		5.1 B:V	
POTASSIUM	5000		153 B:V	101 B:JA			66.9 B:V		68.2 B:V
SELENIUM	5				3.5 B:V				
SODIUM	5000		581 B:V		150 B:V	125 B:V		100 B:V	
VANADIUM	50		3.1 B:V						
Test Group: TRADS Units: pCi/g									
AMERICIUM-241	0	-.001(.001) J:V	.004(.005) J:V	.004(.004) J:V	.002(.004) J:V	.004(.004) :V	.000191(.002) J:V	.002(.003) J:V	.001(.003) J:V
CESIUM-134	0								
CESIUM-137	0								
GROSS ALPHA	0	-.004(.085) J:V	.126(.165) J:V	.078(.145) J:V	-.041(.091) J:V	.02(.12) J:V	-.024(.088) J:V	.045(.12) J:V	.038(.121) J:V
GROSS BETA	0	-.146(.666) J:V	.113(.652) J:V	.933(.793) J:V	.476(.728) J:V	1.15(.778) J:V	.762(.747) J:V	1.099(.791) J:V	.156(.655) J:V
PLUTONIUM-239/240	0		-.002(.002) J:V	.004(.006) :V	.007(.007) :V	-.0004(.001) J:V	.005(.006) :V	.001(.003) J:V	.001(.003) J:V
STRONTIUM-89,90	0								
TRITIUM	0	-43.5(216) J:V	-101(213) J:V	-11.2(217) J:V	-77.1(214) J:V	-13(217) J:V	-71.5(214) J:V	-26(216) J:V	-58.5(215) J:V
URANIUM-233,-234	0	.135(.115) J:V	.103(.169) J:V	.109(.147) J:V	.128(.133) J:V	.4(.212) :V	.086(.117) J:V	.118(.122) J:V	.044(.107) J:V
URANIUM-235	0	.052(.07) J:V	.018(.063) J:V	-.023(.023) J:V	-.016(.019) J:V	.275(.177) :V	.046(.097) J:V	.027(.08) J:V	.044(.107) J:V
URANIUM-238	0	.02(.059) J:V	.018(.092) J:V	.006(.062) J:V	.016(.055) J:V	.315(.184) :V	.173(.166) J:V	.032(.079) J:V	.022(.076) J:V
Test Group: VOA8240 Units: µg/L									
TOLUENE	5								

TABLE C-19
OU13 Surface-Soil Rinsate Positive Results

Sample Location: Sample Identification Number: Date Sampled:	MDL	SS308493 SSG1833JE 11-Jul-94	SS309293 SSG1839JE 19-Jul-94	SS309993 SSG1835JE 14-Jul-94	SS310093 SSG1837JE 18-Jul-94	SS310393 SSG1838JE 18-Jul-94
Test Group: METADD Units: µg/L						
CESIUM	1000					
STRONTIUM	200					
Test Group: SMETCLP Units: µg/L						
ALUMINUM	200	24 B:V		18.4 B:V		55.3 B:V
BARIUM	200			1 B:V		1 B:V
CALCIUM	5000					
COBALT	50					
COPPER	25					
IRON	100				88.2 B:V	
LEAD	3	2.1 B:JA		3.5 :JA	3.8 :JA	2.4 B:V
MAGNESIUM	5000			27.4 B:V		
MANGANESE	15					
NICKEL	40					
POTASSIUM	5000	73.8 B:V		122 B:V	89.4 B:V	
SELENIUM	5					
SODIUM	5000					282 B:V
VANADIUM	50					
Test Group: TRADS Units: pCi/g						
AMERICIUM-241	0	.001(.002) J:V	.004(.003) J:V			
CESIUM-134	0					
CESIUM-137	0					
GROSS ALPHA	0	.063(.149) J:V				
GROSS BETA	0	.8(.776) J:V				
PLUTONIUM-239/240	0	.002(.004) :V				
STRONTIUM-89,90	0					
TRITIUM	0	-20.4(216) J:V				
URANIUM-233,-234	0	.09(.121) J:V			.2(.16) BJ:V	
URANIUM-235	0	.043(.068) J:V				
URANIUM-238	0	.014(.072) J:V				
Test Group: VOA8240 Units: µg/L						
TOLUENE	5		2 J:A			

Notes:
pCi/g = picocuries per gram
µg/L = micrograms per liter

TABLE C-20
OU13 Surface-Soil Duplicate Positive Results Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group: METADD Units: mg/kg								
CESIUM	1000	3.3	SS307993 (1)	7.7	SS309793 (1)	3.8 B:J	SS305893 (1)	10.4 B:J
LITHIUM	100	**	**	**	**	4.2 B:J	SS304593 (1)	13.1 B:J
MOLYBDENUM	200	1.5	SS304593 (2)	2.7	SS305893 (1)	2.1 B:V	SS309793 (2)	5.4 B:J
STRONTIUM	200	**	**	**	**	11.2 B:J	SS304593 (1)	50.2 :J
Test Group: SMETCLP Units: mg/kg								
ALUMINUM	200	**	**	**	**	4500 :V	SS304593 (1)	15100 I:J
ANTIMONY	60	2.5	SS305893 (2)	2.8	SS300893 (4)	4.1 B:J	SS306993 (1)	4.1 B:J
ARSENIC	10	**	**	**	**	2.5 :V	SS309793 (1)	8.6 :V
BARIUM	200	**	**	**	**	36.1 B:V	SS304593 (1)	111 I:J
BERYLLIUM	5	0.36	SS304593 (1)	0.52	SS305893 (1)	.26 B:V	SS309793 (1)	1.1 :V
CADMIUM	5	0.17	SS300493 (4)	0.87	SS306993 (1)	.35 B:J	SS305893 (1)	.59 B:V
CALCIUM	5000	**	**	**	**	1910 :V	SS309793 (1)	13000 :V
CHROMIUM	10	**	**	**	**	8 :V	SS304593 (1)	75.9 :V
COBALT	50	**	**	**	**	3 B:V	SS304593 (1)	8.8 B:V
COPPER	25	**	**	**	**	11.3 :V	SS307993 (1)	287 :V
IRON	100	**	**	**	**	7160 :V	SS304593 (1)	18700 I:J
LEAD	3	**	**	**	**	11.8 :V	SS300893 (1)	69.5 :V
LITHIUM	0.25	**	**	**	**	2.8 B:V	SS302393 (1)	7.2 B:V
MAGNESIUM	5000	**	**	**	**	1150 :V	SS304593 (1)	4580 I:J
MANGANESE	15	**	**	**	**	99.8 :V	SS304593 (1)	352 :V
MERCURY	0.2	0.05	SS306993 (1)	0.05	SS304593 (1)	.052 B:V	SS305893 (2)	.087 B:V
NICKEL	40	5.5	SS304593 (1)	6.5	SS304593 (1)	6.9 B:V	SS300893 (1)	30.2 :V
POTASSIUM	5000	**	**	**	**	1050 :V	SS309793 (1)	3390 I:J
SELENIUM	5	0.43	SS300493 (1)	0.6	SS304593 (1)	.72 B:V	SS305893 (1)	1.3 :V
SILVER	10	0.81	SS305893 (2)	0.88	SS300893 (2)	.78 B:V	SS305893 (1)	2.7 :V
SODIUM	5000	65.9	SS307993 (1)	92.5	SS304593 (1)	87.6 B:J	SS306993 (1)	273 B:V
VANADIUM	50	**	**	**	**	13 :V	SS304593 (1)	37 I:J
ZINC	20	**	**	**	**	44.2 :V	SS300493 (1)	416 :V
Test Group: TRADS Units: pCi/g								
AMERICIUM-241	0.01	**	**	**	**	-.221(.034) :V	SS305693 (1)	.237(.038) :V
GROSS ALPHA	3	**	**	**	**	-27.35(6.02) :V	SS300493 (1)	27.87(5.97) :V
GROSS BETA	4	**	**	**	**	-42.53(5.35) :V	SS302393 (1)	44.37(5.5) :V
PLUTONIUM-239/240	0.005	**	**	**	**	-1.287(.177) :V	SS305693 (1)	1.78(.2) :VV
TRITIUM	700	**	**	**	**	-290(390) U:V	SS309793 (1)	206.9(213) J:V
URANIUM-233,-234	0.09	**	**	**	**	-2.573(.36) :V	SS300493 (1)	3.242(.586) :A
URANIUM-235	0.08	**	**	**	**	-.087(.044) :V	SS300493 (1)	.122(.082) :A
URANIUM-238	0.07	**	**	**	**	-4.321(.552) :V	SS300493 (1)	5.265(.864) :A
Test Group:VOA8240 Units: µg/kg								
Test Group:WQPL Units:%REC								
% SOLIDS BY WEIGHT	0.1	**	**	**	**	92.7 :V	SS302993 (1)	96.8 :V
pH	0.01	**	**	**	**	7.93 :V	SS307993 (1)	8.98 :V

TABLE C-20

OU13 Surface-Soil Duplicate Positive Results Data Summary

	MDL	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group: METADD Units: mg/kg					
CESIUM	1000	SS300493 (1)	11	14	5.9036
LITHIUM	100	SS306993 (1)	14	14	7.0643
MOLYBDENUM	200	SS306993 (1)	6	14	2.2107
STRONTIUM	200	SS306993 (1)	14	14	22.6214
Test Group: SMETCLP Units: mg/kg					
ALUMINUM	200	SS306993 (1)	14	14	8730.714
ANTIMONY	60	SS306993 (1)	1	14	1.5357
ARSENIC	10	SS307993 (1)	14	14	5.1143
BARIUM	200	SS306993 (1)	14	14	72.4143
BERYLLIUM	5	SS307993 (1)	10	14	0.5029
CADMIUM	5	SS309793 (1)	3	12	0.2637
CALCIUM	5000	SS307993 (1)	14	14	5085
CHROMIUM	10	SS306993 (1)	14	14	21.3429
COBALT	50	SS306993 (1)	14	14	5.1929
COPPER	25	SS304593 (1)	14	14	38.9429
IRON	100	SS306993 (1)	14	14	12376.43
LEAD	3	SS300493 (1)	14	14	38.5786
LITHIUM	0.25	SS302993 (1)	6	6	4.3833
MAGNESIUM	5000	SS306993 (1)	18	18	2275.556
MANGANESE	15	SS305893 (1)	14	14	194.6286
MERCURY	0.2	SS300493 (1)	9	14	0.0527
NICKEL	40	SS306993 (1)	12	14	11.7571
POTASSIUM	5000	SS306993 (1)	14	14	1621.429
SELENIUM	5	SS306993 (1)	5	14	0.5275
SILVER	10	SS307993 (1)	7	14	0.9796
SODIUM	5000	SS305893 (1)	10	14	131.4
VANADIUM	50	SS306993 (1)	14	14	25.3214
ZINC	20	SS309793 (1)	14	14	164.25
Test Group: TRADS Units: pCi/g					
AMERICIUM-241	0.01	SS305693 (1)	22	22	0.012
GROSS ALPHA	3	SS300493 (1)	22	22	1.5473
GROSS BETA	4	SS302393 (1)	22	22	2.7823
PLUTONIUM-239/240	0.005	SS305693 (1)	22	22	0.0589
TRITIUM	700	SS300893 (1)	22	22	-13.1186
URANIUM-233,-234	0.09	SS300493 (1)	22	22	0.1916
URANIUM-235	0.08	SS300493 (1)	22	22	0.0097
URANIUM-238	0.07	SS300493 (1)	22	22	0.2272
Test Group:VOA8240 Units: µg/kg					
Test Group:WQPL Units:%REC					
% SOLIDS BY WEIGHT	0.1	SS302393 (1)	6	6	95.2833
pH	0.01	SS300893 (1)	6	6	8.535

Notes:

mg/kg = milligrams per kilogram
pCi/g = picocuries per gram
µg/kg = micrograms per kilogram

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS300193 SSG1761JE 22-Dec-93	SS300493 SSG1803JE 7-Jun-94	SS300893 SSG1801JE 6-Jun-94	SS301393 SSG1800JE 2-Jun-94	SS301593 SSG1809JE 13-Jun-94	SS301793 SSG1807JE 9-Jun-94
Test Group: BNACLP Units: µg/L						
1,2,4-TRICHLOROBENZENE	NA	NA	NA	< 10 :V	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	< 10 :V	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	< 10 :V	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	< 10 :V	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	< 50 :V	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	< 10 :V	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	< 10 :V	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	< 10 :V	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	< 50 :V	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	< 10 :V	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	< 10 :V	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	< 10 :V	NA	NA
2-CHLOROPHENOL	NA	NA	NA	< 10 :V	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	< 10 :V	NA	NA
2-METHYLPHENOL	NA	NA	NA	< 10 :V	NA	NA
2-NITROANILINE	NA	NA	NA	< 50 :V	NA	NA
2-NITROPHENOL	NA	NA	NA	< 10 :V	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	< 20 :V	NA	NA
3-NITROANILINE	NA	NA	NA	< 50 :V	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	< 50 :V	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	< 10 :V	NA	NA
4-CHLOROANILINE	NA	NA	NA	< 10 :V	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	< 10 :V	NA	NA
4-METHYLPHENOL	NA	NA	NA	< 10 :V	NA	NA
4-NITROANILINE	NA	NA	NA	< 50 :V	NA	NA
4-NITROPHENOL	NA	NA	NA	< 50 :V	NA	NA
ACENAPHTHENE	NA	NA	NA	< 10 :V	NA	NA
ACENAPHTHYLENE	NA	NA	NA	< 10 :V	NA	NA
ANTHRACENE	NA	NA	NA	< 10 :V	NA	NA
BENZO(a)ANTHRACENE	NA	NA	NA	< 10 :V	NA	NA
BENZO(a)PYRENE	NA	NA	NA	< 10 :V	NA	NA
BENZO(b)FLUORANTHENE	NA	NA	NA	< 10 :V	NA	NA
BENZO(ghi)PERYLENE	NA	NA	NA	< 10 :V	NA	NA
BENZO(k)FLUORANTHENE	NA	NA	NA	< 10 :V	NA	NA
BENZOIC ACID	NA	NA	NA	< 50 :V	NA	NA
BENZYL ALCOHOL	NA	NA	NA	< 10 :V	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	< 10 :V	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	< 10 :V	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	< 10 :V	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
CHRYSENE	NA	NA	NA	< 10 :V	NA	NA
DI-n-BUTYL PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
DI-n-OCTYL PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
DIBENZO(a,h)ANTHRACENE	NA	NA	NA	< 10 :V	NA	NA
DIBENZOFURAN	NA	NA	NA	< 10 :V	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	< 10 :V	NA	NA
FLUORANTHENE	NA	NA	NA	< 10 :V	NA	NA
FLUORENE	NA	NA	NA	< 10 :V	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	< 10 :V	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	< 10 :V	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	< 10 :V	NA	NA
HEXACHLOROETHANE	NA	NA	NA	< 10 :V	NA	NA
INDENO(1,2,3-cd)PYRENE	NA	NA	NA	< 10 :V	NA	NA
ISOPHORONE	NA	NA	NA	< 10 :V	NA	NA
N-NITROSO-DI-n-PROPYLAMINE	NA	NA	NA	< 10 :V	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	< 10 :V	NA	NA
NAPHTHALENE	NA	NA	NA	< 10 :V	NA	NA
NITROBENZENE	NA	NA	NA	< 10 :V	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS300193 SSG1751JE 22-Dec-93	SS300493 SSG1803JE 7-Jun-94	SS300893 SSG1801JE 6-Jun-94	SS301393 SSG1800JE 2-Jun-94	SS301593 SSG1809JE 13-Jun-94	SS301793 SSG1807JE 9-Jun-94
PENTACHLOROPHENOL	NA	NA	NA	< 50 :V	NA	NA
PHENANTHRENE	NA	NA	NA	< 10 :V	NA	NA
PHENOL	NA	NA	NA	< 10 :V	NA	NA
PYRENE	NA	NA	NA	< 10 :V	NA	NA
p-BROMODIPHENYL ETHER	NA	NA	NA	< 10 :V	NA	NA
Test Group:METADD Units: µg/L						
CESIUM	< 30 :J	< 40 :J	< 36.4 :V	40 B:J	NA	NA
LITHIUM	< .9 :V	< 1.5 :V	< 1.5 :V	< 2.4 :J	NA	NA
MOLYBDENUM	< 2.7 :V	< 3.3 :V	< 3.3 :V	< 4.1 :J	NA	NA
SILICON	< 100 :V	NA	NA	NA	NA	NA
STRONTIUM	< 4.2 :V	< 2.6 :J	< 2.4 :J	< 1.3 :J	NA	NA
TIN	< 8.3 :V	< 10.5 :V	< 10.5 :V	< 12.6 :J	NA	NA
Test Group:SMETCLP Units: µg/L						
ALUMINUM	< 15 :V	739 :V	558 :V	< 20.9 :J	NA	NA
ANTIMONY	< 12.2 :V	< 13.1 :J	< 13.1 :J	< 14.7 :J	NA	NA
ARSENIC	< 3 :V	< 1.5 :V	< 1.5 :V	< 1.5 :J	NA	NA
BARIUM	< .8 :V	12 B:V	11.2 B:V	30.6 B:J	NA	NA
BERYLLIUM	< .3 :V	< .3 :V	< .3 :V	< .4 :J	NA	NA
CADMIUM	< 1.7 :V	< .8 :V	< .8 :V	< 1.1 :J	NA	NA
CALCIUM	< 83.4 :V	830 B:V	< 682 :J	< 176 :J	NA	NA
CHROMIUM	< 3 :J	< 2.2 :J	< 2.2 :J	< 2.5 :J	NA	NA
COBALT	42.4 :V	< 2.4 :V	< 2.4 :V	< 2.1 :J	NA	NA
COPPER	< 23.2 :J	< 2.7 :J	< 2.1 :V	< 3.6 :J	NA	NA
IRON	1050 :V	< 55.8 :J	< 30.8 :J	< 25.8 :J	NA	NA
LEAD	2.3 :V	< 6.6 :J	< 5.4 :J	1.9 B:J	NA	NA
LITHIUM	NA	NA	NA	NA	< 1.4 :V	< 1.4 :V
MAGNESIUM	< 32.2 :V	126 B:V	< 91.6 :J	< 25 :J	< 13.3 :V	< 18.6 :J
MANGANESE	15.4 :V	22 :V	17.4 :V	< .9 :J	NA	NA
MERCURY	< .2 :V	< .2 :V	< .2 :V	< .2 :J	NA	NA
NICKEL	< 4.4 :V	< 4.2 :V	< 4.2 :V	< 6.5 :J	NA	NA
POTASSIUM	147 :V	105 B:V	73.2 B:V	80.2 B:J	NA	NA
SELENIUM	< 2.8 :V	< 2.1 :V	< 2.1 :V	< 2.1 :J	NA	NA
SILVER	< 5.5 :J	< 4.1 :V	< 4.1 :V	< 3.6 :J	NA	NA
SODIUM	< 78.7 :J	246 B:V	191 B:V	158 B:J	NA	NA
THALLIUM	< 3.7 :V	< 2.2 :V	< 2.2 :V	< 2.2 :J	NA	NA
VANADIUM	< 2.4 :V	< 2.1 :V	< 2.1 :V	< 2.2 :J	NA	NA
ZINC	< 16.4 :J	< 11.5 :J	< 11.7 :J	< 11.1 :J	NA	NA
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	.002(.003) J:V	.004(.009) J:A	.004(.008) J:V	.003(.007) J:V	.001(.003) J:V	.003(.004) :V
CESIUM-134	-.493(.756) J:V	NA	NA	NA	NA	NA
CESIUM-137	.646(.728) X:V	NA	NA	NA	NA	NA
GROSS ALPHA	.129(.175) J:A	(.126) J:V	.051(.153) J:V	.05(.149) J:V	.13(.186) J:V	.092(.173) J:V
GROSS BETA	.653(.735) J:V	-.526(.701) J:V	.395(.762) J:V	.267(.697) J:V	.08(.668) J:V	.775(.78) J:V
PLUTONIUM-239/240	.000048(.002) J:V	(.003) J:V	(.009) J:V	(.004) J:V	.000451(.005) J:V	.004(.005) J:V
STRONTIUM-89,90	-.002(.269) J:V	NA	NA	NA	NA	NA
TRITIUM	-105(226) J:V	-90.4(208) J:V	.962(212) J:V	8.666(213) J:V	87.47(217) X:V	-82.7(208) J:V
URANIUM-233,-234	.057(.064) J:V	.076(.092) J:V	.053(.072) J:V	.035(.07) J:V	.075(.09) J:V	.081(.103) J:V
URANIUM-235	-.005(.039) J:V	.044(.071) J:V	.045(.073) J:V	.004(.042) J:V	.071(.08) J:V	.058(.079) J:V
URANIUM-238	.073(.067) J:V	.032(.058) J:V	.049(.073) J:V	.012(.041) J:V	-.004(.044) J:V	.022(.067) J:V
Test Group:VOA8240 Units: µg/L						
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS300193 SSG1751JE 22-Dec-93	SS300493 SSG1803JE 7-Jun-94	SS300893 SSG1801JE 6-Jun-94	SS301393 SSG1800JE 2-Jun-94	SS301593 SSG1809JE 13-Jun-94	SS301793 SSG1807JE 9-Jun-94
ACETONE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS302293 SSG1810JE 13-Jun-94	SS302393 SSG1805JE 8-Jun-94	SS302793 SSG1811JE 14-Jun-94	SS302993 SSG1812JE 15-Jun-94	SS303193 SSG1814JE 16-Jun-94	SS303993 SSG1822JE 28-Jun-94
Test Group: BNACLP Units: µg/L						
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)PYRENE	NA	NA	NA	NA	NA	NA
BENZO(b)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(ghi)PERYLENE	NA	NA	NA	NA	NA	NA
BENZO(k)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DI-n-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIBENZO(a,h)ANTHRACENE	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-cd)PYRENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-n-PROPYLAMINE	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS302293 SSG1810JE 13-Jun-94	SS302393 SSG1805JE 8-Jun-94	SS302793 SSG1811JE 14-Jun-94	SS302993 SSG1812JE 15-Jun-94	SS303193 SSG1814JE 16-Jun-94	SS303993 SSG1822JE 28-Jun-94
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA
p-BROMODIPHENYL ETHER	NA	NA	NA	NA	NA	NA
Test Group:METADD Units: µg/L						
CESIUM	NA	NA	NA	NA	NA	< 16 :V
LITHIUM	NA	NA	NA	NA	NA	< 1.5 :V
MOLYBDENUM	NA	NA	NA	NA	NA	< 3.3 :V
SILICON	NA	NA	NA	NA	NA	NA
STRONTIUM	NA	NA	NA	NA	NA	< .6 :V
TIN	NA	NA	NA	NA	NA	< 10.5 :V
Test Group:SMETCLP Units: µg/L						
ALUMINUM	NA	NA	NA	NA	NA	< 19.6 :J
ANTIMONY	NA	NA	NA	NA	NA	< 13.1 :V
ARSENIC	NA	NA	NA	NA	NA	< 2.6 :V
BARIUM	NA	NA	NA	NA	NA	< 1.9 :J
BERYLLIUM	NA	NA	NA	NA	NA	< .42 :J
CADMIUM	NA	NA	NA	NA	NA	< .8 :J
CALCIUM	NA	NA	NA	NA	NA	< 109 :V
CHROMIUM	NA	NA	NA	NA	NA	< 2.2 :V
COBALT	NA	NA	NA	NA	NA	< 2.4 :V
COPPER	NA	NA	NA	NA	NA	2.5 B:V
IRON	NA	NA	NA	NA	NA	< 7.4 :V
LEAD	NA	NA	NA	NA	NA	< 2.8 :J
LITHIUM	< 1.4 :V	< 1.4 :V	< 1.4 :V	< 1.4 :V	< 1.4 :V	NA
MAGNESIUM	< 13.3 :V	< 25.1 :J	NA	NA	NA	< 23.4 :V
MANGANESE	NA	NA	NA	NA	NA	< .9 :V
MERCURY	NA	NA	NA	NA	NA	< .2 :V
NICKEL	NA	NA	NA	NA	NA	< 4.2 :V
POTASSIUM	NA	NA	NA	NA	NA	141 B:V
SELENIUM	NA	NA	NA	NA	NA	< 2.8 :V
SILVER	NA	NA	NA	NA	NA	< 4.1 :V
SODIUM	NA	NA	NA	NA	NA	< 79.1 :J
THALLIUM	NA	NA	NA	NA	NA	< 2.2 :V
VANADIUM	NA	NA	NA	NA	NA	< 2.1 :V
ZINC	NA	NA	NA	NA	NA	< 7.8 :J
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	.005(.005) J:V	.003(.005) J:V	.002(.004) J:V	.004(.005) J:V	-.001(.001) J:V	.001(.002) J:V
CESIUM-134	NA	NA	NA	NA	NA	NA
CESIUM-137	NA	NA	NA	NA	NA	NA
GROSS ALPHA	.239(.223) J:V	.03(.123) J:V	.163(.205) J:V	.004(.119) J:V	.008(.121) J:V	-.062(.034) J:V
GROSS BETA	.548(.705) J:V	.088(.725) J:V	.855(.79) J:V	.241(.703) J:V	.65(.74) J:V	.368(.683) J:V
PLUTONIUM-239/240	-.001(.005) J:V	.001(.002) J:V	-.002(.003) J:V	-.002(.004) J:V	(.009) J:V	(.003) J:V
STRONTIUM-89,90	NA	NA	NA	NA	NA	NA
TRITIUM	49.98(215) X:V	65.41(216) J:V	14.42(213) X:V	-40.4(210) J:V	-76.8(215) J:V	-77.2(214) J:V
URANIUM-233,-234	.023(.056) J:V	-.035(.06) J:V	.115(.104) J:V	.068(.082) J:V	.133(.138) J:V	.252(.193) :V
URANIUM-235	-.015(.015) J:V	.054(.088) J:V	-.004(.043) J:V	.014(.037) J:V	.035(.064) J:V	.227(.182) :V
URANIUM-238	.011(.04) J:V	.114(.112) J:V	(.058) J:V	.021(.053) J:V	.075(.102) J:V	.807(.335) :V
Test Group:VOA8240 Units: µg/L						
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS302293 SSG1810JE 13-Jun-94	SS302393 SSG1805JE 8-Jun-94	SS302793 SSG1811JE 14-Jun-94	SS302993 SSG1812JE 15-Jun-94	SS303193 SSG1814JE 16-Jun-94	SS303993 SSG1822JE 28-Jun-94
ACETONE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS304193 SSG1818JE 22-Jun-94	SS304393 SSG1819JE 23-Jun-94	SS304693 SSG1821JE 27-Jun-94	SS305093 SSG1817JE 21-Jun-94	SS305793 SSG1815JE 20-Jun-94	SS305893 SSG1823JE 28-Jun-94
Test Group: BNACLP Units: µg/L						
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)PYRENE	NA	NA	NA	NA	NA	NA
BENZO(b)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(ghi)PERYLENE	NA	NA	NA	NA	NA	NA
BENZO(k)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DI-n-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIBENZO(a,h)ANTHRACENE	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-cd)PYRENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-n-PROPYLAMINE	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS304193 SSG1818JE 22-Jun-94	SS304393 SSG1819JE 23-Jun-94	SS304693 SSG1821JE 27-Jun-94	SS305093 SSG1817JE 21-Jun-94	SS305793 SSG1816JE 20-Jun-94	SS305893 SSG1823JE 28-Jun-94
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA
p-BROMODIPHENYL ETHER	NA	NA	NA	NA	NA	NA
Test Group:METADD Units: µg/L						
CESIUM	< 16 :V	< 16 :V	< 16 :V	NA	NA	< 20 :J
LITHIUM	< 1.5 :V	< 1.5 :V	< 1.5 :V	NA	NA	< 1.5 :V
MOLYBDENUM	< 3.3 :V	< 3.3 :V	< 3.3 :V	NA	NA	< 3.3 :V
SILICON	NA	NA	NA	NA	NA	NA
STRONTIUM	< .65 :J	< .6 :V	< .6 :V	NA	NA	9 B:V
TIN	< 10.5 :V	< 10.5 :V	< 10.5 :V	NA	NA	< 10.5 :V
Test Group:SMETCLP Units: µg/L						
ALUMINUM	< 33.4 :J	< 21.7 :J	< 28.4 :J	NA	NA	2480 :V
ANTIMONY	< 13.1 :V	< 13.1 :V	< 13.1 :V	NA	NA	< 13.1 :V
ARSENIC	< 2.6 :V	< 2.6 :V	< 2.6 :V	NA	NA	< 2.6 :V
BARIUM	< 2.4 :J	< 2 :J	< 2.8 :J	NA	NA	19.9 B:V
BERYLLIUM	< .3 :V	< .3 :V	< .34 :J	NA	NA	< .3 :V
CADMIUM	< .8 :J	< .8 :J	< .8 :V	NA	NA	< .8 :V
CALCIUM	< 109 :V	< 109 :V	< 109 :V	NA	NA	2770 B:V
CHROMIUM	< 2.2 :V	< 2.2 :V	< 2.2 :V	NA	NA	< 2.2 :V
COBALT	< 2.4 :V	< 2.4 :V	< 2.4 :V	NA	NA	< 2.4 :V
COPPER	5 B:V	3.8 B:V	3.3 B:V	NA	NA	4.4 B:V
IRON	< 7.4 :V	< 8.4 :J	< 7.4 :V	NA	NA	225 :V
LEAD	< 1 :V	< 4.6 :J	< 3 :J	NA	NA	< 3 :J
LITHIUM	NA	NA	NA	NA	NA	NA
MAGNESIUM	< 23.4 :V	< 23.4 :V	< 23.4 :V	NA	NA	384 B:V
MANGANESE	< .9 :V	< .9 :V	< .9 :V	NA	NA	76.7 :V
MERCURY	< .2 :V	< .2 :V	< .2 :V	NA	NA	< .2 :V
NICKEL	< 4.2 :V	< 4.2 :V	< 4.2 :V	NA	NA	< 4.2 :V
POTASSIUM	529 B:V	< 65.3 :V	< 65.3 :V	NA	NA	153 B:V
SELENIUM	< 2.8 :V	< 2.8 :V	< 2.8 :V	NA	NA	< 2.8 :V
SILVER	< 4.1 :V	< 4.1 :V	< 4.1 :V	NA	NA	< 4.1 :V
SODIUM	< 123 :J	< 121 :J	< 106 :J	NA	NA	581 B:V
THALLIUM	< 2.4 :J	< 2.2 :V	< 2.2 :V	NA	NA	< 2.2 :V
VANADIUM	< 2.1 :V	< 2.1 :V	< 2.1 :V	NA	NA	3.1 B:V
ZINC	< 7.5 :V	< 9.4 :J	< 10.3 :J	NA	NA	< 20.4 :J
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	.000177(.002) J:V	.008(.007) :V	.002(.003) J:V	.004(.005) J:V	-.001(.001) J:V	.004(.005) J:V
CESIUM-134	NA	NA	NA	NA	NA	NA
CESIUM-137	NA	NA	NA	NA	NA	NA
GROSS ALPHA	.074(.145) J:V	-.004(.12) J:V	.073(.143) J:V	-.088(.041) J:V	-.004(.085) J:V	.126(.165) J:V
GROSS BETA	.154(.653) J:V	.899(.784) J:V	1.161(.825) J:V	1.205(.819) J:V	-.146(.666) J:V	.113(.652) J:V
PLUTONIUM-239/240	-.001(.002) J:V	.002(.003) J:V	-.000488(.001) J:V	-.001(.001) J:V	(.007) J:V	-.002(.002) J:V
STRONTIUM-89,90	NA	NA	NA	NA	NA	NA
TRITIUM	-41.6(216) J:V	-64.7(215) J:V	26.8(220) J:V	-88.8(214) J:V	-43.5(216) J:V	-101(213) J:V
URANIUM-233,-234	(.062) J:V	.011(.066) J:V	.043(.089) J:V	.084(.11) J:V	.135(.115) J:V	.103(.169) J:V
URANIUM-235	.008(.044) J:V	.018(.052) J:V	.026(.063) J:V	.004(.043) J:V	.052(.07) J:V	.018(.063) J:V
URANIUM-238	.066(.096) J:V	.035(.063) J:V	.047(.076) J:V	.052(.071) J:V	.02(.059) J:V	.018(.092) J:V
Test Group:VOA8240 Units: µg/L						
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS304193 SSG1818JE 22-Jun-94	SS304393 SSG1819JE 23-Jun-94	SS304693 SSG1821JE 27-Jun-94	SS305093 SSG1817JE 21-Jun-94	SS305793 SSG1815JE 20-Jun-94	SS305893 SSG1823JE 28-Jun-94
ACETONE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS306093 SSG1825JE 29-Jun-94	SS306393 SSG1826JE 30-Jun-94	SS306793 SSG1829JE 6-Jul-94	SS306993 SSG1827JE 5-Jul-94	SS307493 SSG1830JE 7-Jul-94	SS307993 SSG1831JE 8-Jul-94
Test Group: BNACLP Units: µg/L						
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)PYRENE	NA	NA	NA	NA	NA	NA
BENZO(b)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(ghi)PERYLENE	NA	NA	NA	NA	NA	NA
BENZO(k)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DI-n-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIBENZO(a,h)ANTHRACENE	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-cd)PYRENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-n-PROPYLAMINE	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS306093 SSG1825JE 29-Jun-94	SS306393 SSG1826JE 30-Jun-94	SS306793 SSG1829JE 6-Jul-94	SS306993 SSG1827JE 5-Jul-94	SS307493 SSG1830JE 7-Jul-94	SS307993 SSG1831JE 8-Jul-94
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA.
p-BROMODIPHENYL ETHER	NA	NA	NA	NA	NA	NA
Test Group:METADD Units: µg/L						
CESIUM	< 20 :J	< 20 :J	< 20 :J	< 16 :V	< 20 :J	< 16 :V
LITHIUM	< 1.5 :J	< 1.5 :V	< 1.5 :V	< 1.5 :V	< 1.5 :V	< 1.5 :V
MOLYBDENUM	< 3.3 :J	< 3.3 :V	< 3.3 :V	< 3.3 :V	< 3.3 :V	< 3.3 :V
SILICON	NA	NA	NA	NA	NA	NA
STRONTIUM	< .6 :J	< 1.4 :J	< 1.4 :J	< 1.3 :J	< 1.4 :J	< 1.1 :J
TIN	< 17.4 :J	< 10.5 :V	< 10.5 :V	< 10.5 :V	< 10.5 :V	< 10.5 :V
Test Group:SMETCLP Units: µg/L						
ALUMINUM	176 :J	228 :V	118 :V	105 B:V	25.9 B:V	< 17 :V
ANTIMONY	< 13.1 :J	< 13.1 :V	< 13.1 :V	< 13.1 :V	< 13.1 :V	< 13.1 :V
ARSENIC	< 2.6 :J	< 2.6 :V	< 2.6 :V	< 2.6 :V	< 2.6 :V	< 2.6 :V
BARIUM	< 3.1 :J	< 2.8 :J	< 1.7 :J	< 1.8 :J	< 1.7 :J	< 1.4 :J
BERYLLIUM	< .3 :J	< .3 :V	< .3 :V	< .3 :V	< .3 :V	< .3 :V
CADMIUM	< 1.1 :J	< .8 :V	< .8 :V	< .86 :J	< .8 :V	< .87 :J
CALCIUM	< 141 :J	< 334 :J	< 109 :V	< 133 :J	< 109 :V	< 109 :V
CHROMIUM	< 2.2 :J	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V
COBALT	< 2.4 :J	< 2.4 :V	< 2.4 :V	< 2.4 :V	< 2.4 :V	< 2.4 :V
COPPER	< 11.5 :J	< 3.3 :J	< 2.1 :V	< 4.2 :J	< 2.1 :V	< 3.9 :J
IRON	10.6 B:J	< 29.1 :J	< 16.4 :J	< 24 :J	< 15.3 :J	< 11.5 :J
LEAD	5.5 :J	3.9 :J	8.2 :J	2.7 B:J	5.9 :J	3.3 :J
LITHIUM	NA	NA	NA	NA	NA	NA
MAGNESIUM	35.4 B:J	< 50.3 :J	< 32.2 :J	< 23.4 :V	< 29.1 :J	< 23.4 :V
MANGANESE	4.4 B:J	5.6 B:V	2.2 B:V	< 3.1 :J	< .9 :V	< .9 :V
MERCURY	< .2 :J	< .1 :V	< .1 :V	< .1 :V	< .1 :V	< .1 :V
NICKEL	< 4.2 :J	< 4.2 :V	7 B:V	< 4.2 :V	5.1 B:V	< 4.2 :V
POTASSIUM	101 B:J	< 82.5 :J	< 88.5 :J	66.9 B:V	< 89.8 :J	68.2 B:V
SELENIUM	< 2.8 :J	3.5 B:V	< 2.8 :V	< 2.8 :V	< 2.8 :V	< 2.8 :V
SILVER	< 4.1 :J	< 4.1 :V	< 4.1 :V	< 4.1 :V	< 4.1 :V	< 4.1 :V
SODIUM	< 129 :J	150 B:V	125 B:V	< 164 :J	100 B:V	< 153 :J
THALLIUM	< 2.2 :J	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V
VANADIUM	< 2.1 :J	< 2.1 :V	< 2.1 :V	< 2.1 :V	< 2.1 :V	< 2.1 :V
ZINC	< 9.3 :J	< 17.3 :J	< 39.5 :J	< 7.5 :J	< 14.9 :J	< 7.5 :J
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	.004(.004) J:V	.002(.004) J:V	.004(.004) :V	.000191(.002) J:V	.002(.003) J:V	.001(.003) J:V
CESIUM-134	NA	NA	NA	NA	NA	NA
CESIUM-137	NA	NA	NA	NA	NA	NA
GROSS ALPHA	.078(.145) J:V	-.041(.091) J:V	.02(.12) J:V	-.024(.088) J:V	.045(.12) J:V	.038(.121) J:V
GROSS BETA	.933(.793) J:V	.476(.728) J:V	1.15(.778) J:V	.762(.747) J:V	1.099(.791) J:V	.156(.655) J:V
PLUTONIUM-239/240	.004(.006) :V	.007(.007) :V	-.0004(.001) J:V	.005(.006) :V	.001(.003) J:V	.001(.003) J:V
STRONTIUM-89,90	NA	NA	NA	NA	NA	NA
TRITIUM	-11.2(217) J:V	-77.1(214) J:V	-13(217) J:V	-71.5(214) J:V	-26(216) J:V	-58.5(215) J:V
URANIUM-233,-234	.109(.147) J:V	.128(.133) J:V	.4(.212) :V	.086(.117) J:V	.118(.122) J:V	.044(.107) J:V
URANIUM-235	-.023(.023) J:V	-.016(.019) J:V	.275(.177) :V	.046(.097) J:V	.027(.08) J:V	.044(.107) J:V
URANIUM-238	.006(.062) J:V	.016(.055) J:V	.315(.184) :V	.173(.166) J:V	.032(.079) J:V	.022(.076) J:V
Test Group:VOA8240 Units: µg/L						
1,1,1-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2,2-TETRACHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1,2-TRICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,1-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROPROPANE	NA	NA	NA	NA	NA	NA
2-BUTANONE	NA	NA	NA	NA	NA	NA
2-CHLOROETHYL VINYL ETHER	NA	NA	NA	NA	NA	NA
2-HEXANONE	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS306093 SSG1825JE 29-Jun-94	SS306393 SSG1826JE 30-Jun-94	SS306793 SSG1829JE 6-Jul-94	SS306993 SSG1827JE 5-Jul-94	SS307493 SSG1830JE 7-Jul-94	SS307993 SSG1831JE 8-Jul-94
ACETONE	NA	NA	NA	NA	NA	NA
BENZENE	NA	NA	NA	NA	NA	NA
BROMODICHLOROMETHANE	NA	NA	NA	NA	NA	NA
BROMOFORM	NA	NA	NA	NA	NA	NA
BROMOMETHANE	NA	NA	NA	NA	NA	NA
CARBON DISULFIDE	NA	NA	NA	NA	NA	NA
CARBON TETRACHLORIDE	NA	NA	NA	NA	NA	NA
CHLOROBENZENE	NA	NA	NA	NA	NA	NA
CHLOROETHANE	NA	NA	NA	NA	NA	NA
CHLOROFORM	NA	NA	NA	NA	NA	NA
CHLOROMETHANE	NA	NA	NA	NA	NA	NA
DIBROMOCHLOROMETHANE	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA
STYRENE	NA	NA	NA	NA	NA	NA
TETRACHLOROETHENE	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA
TRICHLOROETHENE	NA	NA	NA	NA	NA	NA
VINYL ACETATE	NA	NA	NA	NA	NA	NA
VINYL CHLORIDE	NA	NA	NA	NA	NA	NA
cis-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA
trans-1,2-DICHLOROETHENE	NA	NA	NA	NA	NA	NA
trans-1,3-DICHLOROPROPENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS308493 SSG1833JE 11-Jul-94	SS309293 SSG1839JE 19-Jul-94	SS309393 SSG1840JE 20-Jul-94	SS309993 SSG1835JE 14-Jul-94	SS310093 SSG1837JE 18-Jul-94	SS310393 SSG1838JE 18-Jul-94
Test Group: BNACLP Units: µg/L						
1,2,4-TRICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,2-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,3-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA
2,4,5-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4,6-TRICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DICHLOROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DIMETHYLPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROPHENOL	NA	NA	NA	NA	NA	NA
2,4-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2,6-DINITROTOLUENE	NA	NA	NA	NA	NA	NA
2-CHLORONAPHTHALENE	NA	NA	NA	NA	NA	NA
2-CHLOROPHENOL	NA	NA	NA	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA
2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
2-NITROANILINE	NA	NA	NA	NA	NA	NA
2-NITROPHENOL	NA	NA	NA	NA	NA	NA
3,3'-DICHLOROBENZIDINE	NA	NA	NA	NA	NA	NA
3-NITROANILINE	NA	NA	NA	NA	NA	NA
4,6-DINITRO-2-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLORO-3-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-CHLOROANILINE	NA	NA	NA	NA	NA	NA
4-CHLOROPHENYL PHENYL ETHER	NA	NA	NA	NA	NA	NA
4-METHYLPHENOL	NA	NA	NA	NA	NA	NA
4-NITROANILINE	NA	NA	NA	NA	NA	NA
4-NITROPHENOL	NA	NA	NA	NA	NA	NA
ACENAPHTHENE	NA	NA	NA	NA	NA	NA
ACENAPHTHYLENE	NA	NA	NA	NA	NA	NA
ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)ANTHRACENE	NA	NA	NA	NA	NA	NA
BENZO(a)PYRENE	NA	NA	NA	NA	NA	NA
BENZO(b)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZO(ghi)PERYLENE	NA	NA	NA	NA	NA	NA
BENZO(k)FLUORANTHENE	NA	NA	NA	NA	NA	NA
BENZOIC ACID	NA	NA	NA	NA	NA	NA
BENZYL ALCOHOL	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHOXY)METHANE	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROETHYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-CHLOROISOPROPYL)ETHER	NA	NA	NA	NA	NA	NA
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	NA	NA	NA	NA
BUTYL BENZYL PHTHALATE	NA	NA	NA	NA	NA	NA
CHRYSENE	NA	NA	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DI-n-OCTYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIBENZO(a,h)ANTHRACENE	NA	NA	NA	NA	NA	NA
DIBENZOFURAN	NA	NA	NA	NA	NA	NA
DIETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
DIMETHYL PHTHALATE	NA	NA	NA	NA	NA	NA
FLUORANTHENE	NA	NA	NA	NA	NA	NA
FLUORENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBENZENE	NA	NA	NA	NA	NA	NA
HEXACHLOROBUTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROCYCLOPENTADIENE	NA	NA	NA	NA	NA	NA
HEXACHLOROETHANE	NA	NA	NA	NA	NA	NA
INDENO(1,2,3-cd)PYRENE	NA	NA	NA	NA	NA	NA
ISOPHORONE	NA	NA	NA	NA	NA	NA
N-NITROSO-DI-n-PROPYLAMINE	NA	NA	NA	NA	NA	NA
N-NITROSODIPHENYLAMINE	NA	NA	NA	NA	NA	NA
NAPHTHALENE	NA	NA	NA	NA	NA	NA
NITROBENZENE	NA	NA	NA	NA	NA	NA

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS308493 SSG1833JE 11-Jul-94	SS309293 SSG1839JE 19-Jul-94	SS309393 SSG1840JE 20-Jul-94	SS309993 SSG1835JE 14-Jul-94	SS310093 SSG1837JE 18-Jul-94	SS310393 SSG1838JE 18-Jul-94
PENTACHLOROPHENOL	NA	NA	NA	NA	NA	NA
PHENANTHRENE	NA	NA	NA	NA	NA	NA
PHENOL	NA	NA	NA	NA	NA	NA
PYRENE	NA	NA	NA	NA	NA	NA
p-BROMODIPHENYL ETHER	NA	NA	NA	NA	NA	NA
Test Group:METADD Units: µg/L						
CESIUM	< 16 :V	< 20 :J	< 30 :J	< 20 :J	< 20 :J	< 16 :R
LITHIUM	< 1.5 :V	< 1.5 :V	< 1.5 :V	< 1.5 :V	< 1.5 :V	< 1.5 :V
MOLYBDENUM	< 3.3 :V	< 3.3 :V	< 3.3 :V	< 3.3 :V	< 3.3 :V	< 3.3 :V
SILICON	NA	NA	NA	NA	NA	NA
STRONTIUM	< 1.2 :J	< .6 :V	< .6 :V	< .6 :V	< .6 :V	< 1.7 :J
TIN	< 10.5 :V	< 10.5 :V	< 10.5 :V	< 10.5 :V	< 10.5 :V	< 10.5 :V
Test Group:SMETCLP Units: µg/L						
ALUMINUM	24 B:V	< 17 :V	< 17 :V	18.4 B:V	< 17 :V	55.3 B:V
ANTIMONY	< 13.1 :V	< 13.1 :V	< 13.1 :V	< 13.1 :V	< 13.1 :V	< 13.1 :V
ARSENIC	< 2.6 :V	< 2.6 :V	< 2.6 :V	< 2.6 :V	< 2.6 :V	< 2.6 :V
BARIUM	< 1.4 :J	< 1 :V	< 1 :V	1 B:V	< 1 :V	1 B:V
BERYLLIUM	< .3 :V	< .3 :V	< .3 :V	< .3 :V	< .3 :V	< .3 :V
CADMIUM	< 1 :J	< .8 :V	< .8 :V	< .8 :V	< .8 :V	< .8 :V
CALCIUM	< 109 :V	< 109 :V	< 109 :V	< 145 :J	< 109 :V	< 404 :J
CHROMIUM	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V
COBALT	< 2.4 :V	< 2.4 :V	< 2.4 :V	< 2.4 :V	< 2.4 :V	< 2.4 :V
COPPER	< 2.7 :J	< 2.1 :V	< 2.9 :J	< 2.9 :J	< 2.1 :V	< 3.1 :J
IRON	< 18.6 :J	< 7.4 :V	< 7.4 :V	< 42.6 :J	88.2 B:V	< 7.4 :R
LEAD	2.1 B:J	< 1 :J	< 1 :J	3.5 :J	3.8 :J	2.4 B:V
LITHIUM	NA	NA	NA	NA	NA	NA
MAGNESIUM	< 23.4 :V	< 23.4 :V	< 23.4 :V	27.4 B:V	< 23.4 :V	< 60 :J
MANGANESE	< .9 :V	< .9 :V	< .9 :V	< 2 :J	< .9 :V	< 1.8 :J
MERCURY	< .1 :V	< .1 :V	< .1 :V	< .1 :V	< .1 :V	< .1 :V
NICKEL	< 4.2 :V	< 4.2 :V	< 4.2 :V	< 4.2 :V	< 4.2 :V	< 4.2 :V
POTASSIUM	73.8 B:V	< 65.3 :V	< 65.3 :V	122 B:V	89.4 B:V	< 468 :J
SELENIUM	< 2.8 :V	< 2.8 :V	< 2.8 :V	< 2.8 :V	< 2.8 :V	< 2.9 :J
SILVER	< 4.1 :V	< 4.1 :V	< 4.1 :V	< 4.1 :V	< 4.1 :V	< 4.1 :V
SODIUM	< 76 :J	< 61 :J	< 69.2 :J	< 167 :J	< 87.8 :J	282 B:V
THALLIUM	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V	< 2.2 :V
VANADIUM	< 2.1 :V	< 2.1 :V	< 2.1 :V	< 2.1 :V	< 2.1 :V	< 2.1 :V
ZINC	< 17.2 :J	< 7.5 :V	< 7.5 :V	< 15.4 :J	< 7.7 :J	< 7.5 :V
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	.001(.002) J:V	.004(.003) J:V	.003(.003) U:V	.002(.003) U:V	.001(.003) U:V	NA
CESIUM-134	NA	NA	NA	NA	NA	NA
CESIUM-137	NA	NA	NA	NA	NA	NA
GROSS ALPHA	.063(.149) J:V	-.22(.54) U:A	.22(.76) U:A	.14(.51) U:A	.17(.68) U:A	NA
GROSS BETA	.8(.776) J:V	-.02(.8) U:A	-.096(.82) U:A	-.044(.9) U:A	-.16(.75) U:A	NA
PLUTONIUM-239/240	.002(.004) :V	.002(.005) U:V	.001(.005) U:V	-.001(.006) U:V	-.002(.004) U:V	NA
STRONTIUM-89,90	NA	NA	NA	NA	NA	NA
TRITIUM	-20.4(216) J:V	-21(140) U:V	-34(140) U:V	NA	71(140) U:V	NA
URANIUM-233,-234	.09(.121) J:V	(.1) U:V	.024(.097) U:V	.11(.11) U:V	.2(.16) BJ:V	NA
URANIUM-235	.043(.068) J:V	(.062) U:V	(.058) U:V	-.017(.034) U:V	.024(.049) U:V	NA
URANIUM-238	.014(.072) J:V	(.052) U:V	-.024(.048) U:V	-.014(.028) U:V	.02(.04) U:V	NA
Test Group:VOA8240 Units: µg/L						
1,1,1-TRICHLOROETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,1,2,2-TETRACHLOROETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,1,2-TRICHLOROETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,1-DICHLOROETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,1-DICHLOROETHENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,2-DICHLOROETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
1,2-DICHLOROPROPANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
2-BUTANONE	NA	< 100 :V	< 100 :V	< 100 :V	< 100 :V	< 100 :V
2-CHLOROETHYL VINYL ETHER	NA	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V
2-HEXANONE	NA	< 50 :V	< 50 :V	< 50 :V	< 50 :V	< 50 :V
4-METHYL-2-PENTANONE	NA	< 50 :V	< 50 :V	< 50 :V	< 50 :V	< 50 :V

TABLE C-21
OU13 Surface-Soil Rinsate Results

Sample Location: Sample Identification Number: Date Sampled:	SS308493 SSG1833JE 11-Jul-94	SS309293 SSG1839JE 19-Jul-94	SS309393 SSG1840JE 20-Jul-94	SS309993 SSG1835JE 14-Jul-94	SS310093 SSG1837JE 18-Jul-94	SS310393 SSG1838JE 18-Jul-94
ACETONE	NA	< 100 :V	< 100 :V	< 100 :J	< 100 :V	< 100 :V
BENZENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
BROMODICHLOROMETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
BROMOFORM	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
BROMOMETHANE	NA	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V
CARBON DISULFIDE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
CARBON TETRACHLORIDE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
CHLOROBENZENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
CHLOROETHANE	NA	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V
CHLOROFORM	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
CHLOROMETHANE	NA	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V
DIBROMOCHLOROMETHANE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
ETHYLBENZENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
METHYLENE CHLORIDE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
STYRENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
TETRACHLOROETHENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
TOLUENE	NA	2 J:A	< 5 :V	< 5 :V	< 5 :V	< 5 :V
TOTAL XYLENES	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
TRICHLOROETHENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
VINYL ACETATE	NA	< 50 :V	< 50 :V	< 50 :V	< 50 :V	< 50 :V
VINYL CHLORIDE	NA	< 10 :V	< 10 :V	< 10 :V	< 10 :V	< 10 :V
cis-1,3-DICHLOROPROPENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
trans-1,2-DICHLOROETHENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V
trans-1,3-DICHLOROPROPENE	NA	< 5 :V	< 5 :V	< 5 :V	< 5 :V	< 5 :V

Notes:
mg/kg = milligrams per kilogram
pCi/g = picocuries per gram
µg/kg = micrograms per kilogram
µg/L = micrograms per liter

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *
Test Group: BNACLP Units: µg/L					
1,2,4-TRICHLOROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
1,2-DICHLOROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
1,3-DICHLOROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
1,4-DICHLOROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
2,4,5-TRICHLOROPHENOL	50	50	SS301393 (1)	50	SS301393 (1)
2,4,6-TRICHLOROPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
2,4-DICHLOROPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
2,4-DIMETHYLPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
2,4-DINITROPHENOL	50	50	SS301393 (1)	50	SS301393 (1)
2,4-DINITROTOLUENE	10	10	SS301393 (1)	10	SS301393 (1)
2,6-DINITROTOLUENE	10	10	SS301393 (1)	10	SS301393 (1)
2-CHLORONAPHTHALENE	10	10	SS301393 (1)	10	SS301393 (1)
2-CHLOROPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
2-METHYLNAPHTHALENE	10	10	SS301393 (1)	10	SS301393 (1)
2-METHYLPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
2-NITROANILINE	50	50	SS301393 (1)	50	SS301393 (1)
2-NITROPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
3,3'-DICHLOROBENZIDINE	20	20	SS301393 (1)	20	SS301393 (1)
3-NITROANILINE	50	50	SS301393 (1)	50	SS301393 (1)
4,6-DINITRO-2-METHYLPHENOL	50	50	SS301393 (1)	50	SS301393 (1)
4-CHLORO-3-METHYLPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
4-CHLOROANILINE	10	10	SS301393 (1)	10	SS301393 (1)
4-CHLOROPHENYL PHENYL ETHER	10	10	SS301393 (1)	10	SS301393 (1)
4-METHYLPHENOL	10	10	SS301393 (1)	10	SS301393 (1)
4-NITROANILINE	50	50	SS301393 (1)	50	SS301393 (1)
4-NITROPHENOL	50	50	SS301393 (1)	50	SS301393 (1)
ACENAPHTHENE	10	10	SS301393 (1)	10	SS301393 (1)
ACENAPHTHYLENE	10	10	SS301393 (1)	10	SS301393 (1)
ANTHRACENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZO(a)ANTHRACENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZO(a)PYRENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZO(b)FLUORANTHENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZO(ghi)PERYLENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZO(k)FLUORANTHENE	10	10	SS301393 (1)	10	SS301393 (1)
BENZOIC ACID	50	50	SS301393 (1)	50	SS301393 (1)
BENZYL ALCOHOL	10	10	SS301393 (1)	10	SS301393 (1)
BIS(2-CHLOROETHOXY)METHANE	10	10	SS301393 (1)	10	SS301393 (1)
BIS(2-CHLOROETHYL)ETHER	10	10	SS301393 (1)	10	SS301393 (1)
BIS(2-CHLOROISOPROPYL)ETHER	10	10	SS301393 (1)	10	SS301393 (1)
BIS(2-ETHYLHEXYL)PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
BUTYL BENZYL PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
CHRYSENE	10	10	SS301393 (1)	10	SS301393 (1)
DI-n-BUTYL PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
DI-n-OCTYL PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
DIBENZO(a,h)ANTHRACENE	10	10	SS301393 (1)	10	SS301393 (1)
DIBENZOFURAN	10	10	SS301393 (1)	10	SS301393 (1)
DIETHYL PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
DIMETHYL PHTHALATE	10	10	SS301393 (1)	10	SS301393 (1)
FLUORANTHENE	10	10	SS301393 (1)	10	SS301393 (1)
FLUORENE	10	10	SS301393 (1)	10	SS301393 (1)
HEXACHLOROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
HEXACHLOROBUTADIENE	10	10	SS301393 (1)	10	SS301393 (1)
HEXACHLOROCYCLOPENTADIENE	10	10	SS301393 (1)	10	SS301393 (1)
HEXACHLOROETHANE	10	10	SS301393 (1)	10	SS301393 (1)
INDENO(1,2,3-cd)PYRENE	10	10	SS301393 (1)	10	SS301393 (1)
ISOPHORONE	10	10	SS301393 (1)	10	SS301393 (1)
N-NITROSO-DI-n-PROPYLAMINE	10	10	SS301393 (1)	10	SS301393 (1)
N-NITROSODIPHENYLAMINE	10	10	SS301393 (1)	10	SS301393 (1)
NAPHTHALENE	10	10	SS301393 (1)	10	SS301393 (1)
NITROBENZENE	10	10	SS301393 (1)	10	SS301393 (1)
PENTACHLOROPHENOL	50	50	SS301393 (1)	50	SS301393 (1)
PHENANTHRENE	10	10	SS301393 (1)	10	SS301393 (1)
PHENOL	10	10	SS301393 (1)	10	SS301393 (1)
PYRENE	10	10	SS301393 (1)	10	SS301393 (1)
p-BROMODIPHENYL ETHER	10	10	SS301393 (1)	10	SS301393 (1)

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *
Test Group:METADD Units: µg/L					
CESIUM	1000	16	SS303993 (7)	40	SS300493 (1)
LITHIUM	100	0.9	SS300193 (1)	2.4	SS301393 (1)
MOLYBDENUM	200	2.7	SS300193 (1)	4.1	SS301393 (1)
SILICON	500	100	SS300193 (1)	100	SS300193 (1)
STRONTIUM	200	0.6	SS303993 (8)	4.2	SS300193 (1)
TIN	200	8.3	SS300193 (1)	17.4	SS306093 (1)
Test Group:SMETCLP Units: µg/L					
ALUMINUM	200	15	SS300193 (1)	33.4	SS304193 (1)
ANTIMONY	60	12.2	SS300193 (1)	14.7	SS301393 (1)
ARSENIC	10	1.5	SS300493 (3)	3	SS300193 (1)
BARIUM	200	0.8	SS300193 (1)	3.1	SS306093 (1)
BERYLLIUM	5	0.3	SS300193 (18)	0.42	SS303993 (1)
CADMIUM	5	0.8	SS300493 (15)	1.7	SS300193 (1)
CALCIUM	5000	83.4	SS300193 (1)	682	SS300893 (1)
CHROMIUM	10	2.2	SS300493 (19)	3	SS300193 (1)
COBALT	50	2.1	SS301393 (1)	2.4	SS300493 (19)
COPPER	25	2.1	SS300893 (5)	23.2	SS300193 (1)
IRON	100	7.4	SS303993 (5)	55.8	SS300493 (1)
LEAD	3	1	SS304193 (3)	6.6	SS300493 (1)
LITHIUM	1.4	1.4	SS301593 (7)	1.4	SS301593 (7)
MAGNESIUM	5000	13.3	SS301593 (2)	91.6	SS300893 (1)
MANGANESE	15	0.9	SS301393 (11)	3.1	SS306993 (1)
MERCURY	0.2	0.1	SS306393 (11)	0.2	SS300193 (10)
NICKEL	40	4.2	SS300493 (17)	6.5	SS301393 (1)
POTASSIUM	5000	65.3	SS304393 (4)	468	SS310393 (1)
SELENIUM	5	2.1	SS300493 (3)	2.9	SS310393 (1)
SILVER	10	3.6	SS301393 (1)	5.5	SS300193 (1)
SODIUM	5000	61	SS309293 (1)	167	SS309993 (1)
THALLIUM	10	2.2	SS300493 (19)	3.7	SS300193 (1)
VANADIUM	50	2.1	SS300493 (18)	2.4	SS300193 (1)
ZINC	20	7.5	SS304193 (6)	39.5	SS306793 (1)
Test Group:TRADS Units: pCi/L					
AMERICIUM-241	0.005	**	**	**	**
CESIUM-134	1.283	**	**	**	**
CESIUM-137	1.187	**	**	**	**
GROSS ALPHA	1	**	**	**	**
GROSS BETA	1	**	**	**	**
PLUTONIUM-239/240	0.01	**	**	**	**
STRONTIUM-89,90	0.604	**	**	**	**
TRITIUM	200	**	**	**	**
URANIUM-233,-234	0.2	**	**	**	**
URANIUM-235	0.2	**	**	**	**
URANIUM-238	0.2	**	**	**	**
Test Group:VOA8240 Units: µg/L					
1,1,1-TRICHLOROETHANE	5	5	SS309293 (5)	5	SS309293 (5)
1,1,2,2-TETRACHLOROETHANE	5	5	SS309293 (5)	5	SS309293 (5)
1,1,2-TRICHLOROETHANE	5	5	SS309293 (5)	5	SS309293 (5)
1,1-DICHLOROETHANE	5	5	SS309293 (5)	5	SS309293 (5)
1,1-DICHLOROETHENE	5	5	SS309293 (5)	5	SS309293 (5)
1,2-DICHLOROETHANE	5	5	SS309293 (5)	5	SS309293 (5)
1,2-DICHLOROPROPANE	5	5	SS309293 (5)	5	SS309293 (5)
2-BUTANONE	100	100	SS309293 (5)	100	SS309293 (5)
2-CHLOROETHYL VINYL ETHER	10	10	SS309293 (5)	10	SS309293 (5)
2-HEXANONE	50	50	SS309293 (5)	50	SS309293 (5)
4-METHYL-2-PENTANONE	50	50	SS309293 (5)	50	SS309293 (5)
ACETONE	100	100	SS309293 (5)	100	SS309293 (5)
BENZENE	5	5	SS309293 (5)	5	SS309293 (5)
BROMODICHLOROMETHANE	5	5	SS309293 (5)	5	SS309293 (5)
BROMOFORM	5	5	SS309293 (5)	5	SS309293 (5)
BROMOMETHANE	10	10	SS309293 (5)	10	SS309293 (5)
CARBON DISULFIDE	5	5	SS309293 (5)	5	SS309293 (5)
CARBON TETRACHLORIDE	5	5	SS309293 (5)	5	SS309293 (5)
CHLOROBENZENE	5	5	SS309293 (5)	5	SS309293 (5)
CHLOROETHANE	10	10	SS309293 (5)	10	SS309293 (5)
CHLOROFORM	5	5	SS309293 (5)	5	SS309293 (5)
CHLOROMETHANE	10	10	SS309293 (5)	10	SS309293 (5)

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *
DIBROMOCHLOROMETHANE	5	5	SS309293 (5)	5	SS309293 (5)
ETHYLBENZENE	5	5	SS309293 (5)	5	SS309293 (5)
METHYLENE CHLORIDE	5	5	SS309293 (5)	5	SS309293 (5)
STYRENE	5	5	SS309293 (5)	5	SS309293 (5)
TETRACHLOROETHENE	5	5	SS309293 (5)	5	SS309293 (5)
TOLUENE	5	5	SS309393 (4)	5	SS309393 (4)
TOTAL XYLENES	5	5	SS309293 (5)	5	SS309293 (5)
TRICHLOROETHENE	5	5	SS309293 (5)	5	SS309293 (5)
VINYL ACETATE	50	50	SS309293 (5)	50	SS309293 (5)
VINYL CHLORIDE	10	10	SS309293 (5)	10	SS309293 (5)
cis-1,3-DICHLOROPROPENE	5	5	SS309293 (5)	5	SS309293 (5)
trans-1,2-DICHLOROETHENE	5	5	SS309293 (5)	5	SS309293 (5)
trans-1,3-DICHLOROPROPENE	5	5	SS309293 (5)	5	SS309293 (5)

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

	Minimum Concentration	Minimum Concentration Location *	Maximum Concentration
Test Group:METADD Units: µg/L			
CESIUM	40 B:J	SS301393 (1)	40 B:J
LITHIUM			
MOLYBDENUM			
SILICON			
STRONTIUM	9 B:V	SS305893 (1)	9 B:V
TIN			
Test Group:SMETCLP Units: µg/L			
ALUMINUM	18.4 B:V	SS309993 (1)	2480 :V
ANTIMONY			
ARSENIC			
BARIUM	1 B:V	SS309993 (2)	30.6 B:J
BERYLLIUM			
CADMIUM			
CALCIUM	830 B:V	SS300493 (1)	2770 B:V
CHROMIUM			
COBALT	42.4 :V	SS300193 (1)	42.4 :V
COPPER	2.5 B:V	SS303993 (1)	5 B:V
IRON	10.6 B:J	SS306093 (1)	1050 :V
LEAD	1.9 B:J	SS301393 (1)	8.2 :J
LITHIUM			
MAGNESIUM	27.4 B:V	SS309993 (1)	384 B:V
MANGANESE	2.2 B:V	SS306793 (1)	76.7 :V
MERCURY			
NICKEL	5.1 B:V	SS307493 (1)	7 B:V
POTASSIUM	66.9 B:V	SS306993 (1)	529 B:V
SELENIUM	3.5 B:V	SS306393 (1)	3.5 B:V
SILVER			
SODIUM	100 B:V	SS307493 (1)	581 B:V
THALLIUM			
VANADIUM	3.1 B:V	SS305893 (1)	3.1 B:V
ZINC			
Test Group:TRADS Units: pCi/L			
AMERICIUM-241	-.001(.001) J:V	SS303193 (2)	.008(.007) :V
CESIUM-134	-.493(.756) J:V	SS300193 (1)	-.493(.756) J:V
CESIUM-137	.646(.728) X:V	SS300193 (1)	.646(.728) X:V
GROSS ALPHA	-.22(.54) U:A	SS309293 (1)	.239(.223) J:V
GROSS BETA	-.526(.701) J:V	SS300493 (1)	1.205(.819) J:V
PLUTONIUM-239/240	-.002(.003) J:VV	SS302793 (4)	.007(.007) :VV
STRONTIUM-89,90	-.002(.269) J:V	SS300193 (1)	-.002(.269) J:V
TRITIUM	-105(226) J:V	SS300193 (1)	87.47(217) X:V
URANIUM-233,-234	-.035(.06) J:V	SS302393 (1)	.4(.212) :V
URANIUM-235	-.023(.023) J:V	SS306093 (1)	.275(.177) :V
URANIUM-238	-.024(.048) U:V	SS309393 (1)	.807(.335) :V
Test Group:VOA8240 Units: µg/L			
1,1,1-TRICHLOROETHANE			
1,1,2,2-TETRACHLOROETHANE			
1,1,2-TRICHLOROETHANE			
1,1-DICHLOROETHANE			
1,1-DICHLOROETHENE			
1,2-DICHLOROETHANE			
1,2-DICHLOROPROPANE			
2-BUTANONE			
2-CHLOROETHYL VINYL ETHER			
2-HEXANONE			
4-METHYL-2-PENTANONE			
ACETONE			
BENZENE			
BROMODICHLOROMETHANE			
BROMOFORM			
BROMOMETHANE			
CARBON DISULFIDE			
CARBON TETRACHLORIDE			
CHLOROBENZENE			
CHLOROETHANE			
CHLOROFORM			
CHLOROMETHANE			

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

DIBROMOCHLOROMETHANE			
ETHYLBENZENE			
METHYLENE CHLORIDE			
STYRENE			
TETRACHLOROETHENE			
TOLUENE	2 J:A	SS309293 (1)	2 J:A
TOTAL XYLENES			
TRICHLOROETHENE			
VINYL ACETATE			
VINYL CHLORIDE			
cis-1,3-DICHLOROPROPENE			
trans-1,2-DICHLOROETHENE			
trans-1,3-DICHLOROPROPENE			

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group: BNACLP Units: µg/L				
1,2,4-TRICHLOROBENZENE		0	1	0
1,2-DICHLOROBENZENE		0	1	0
1,3-DICHLOROBENZENE		0	1	0
1,4-DICHLOROBENZENE		0	1	0
2,4,5-TRICHLOROPHENOL		0	1	0
2,4,6-TRICHLOROPHENOL		0	1	0
2,4-DICHLOROPHENOL		0	1	0
2,4-DIMETHYLPHENOL		0	1	0
2,4-DINITROPHENOL		0	1	0
2,4-DINITROTOLUENE		0	1	0
2,6-DINITROTOLUENE		0	1	0
2-CHLORONAPHTHALENE		0	1	0
2-CHLOROPHENOL		0	1	0
2-METHYLNAPHTHALENE		0	1	0
2-METHYLPHENOL		0	1	0
2-NITROANILINE		0	1	0
2-NITROPHENOL		0	1	0
3,3'-DICHLOROBENZIDINE		0	1	0
3-NITROANILINE		0	1	0
4,6-DINITRO-2-METHYLPHENOL		0	1	0
4-CHLORO-3-METHYLPHENOL		0	1	0
4-CHLOROANILINE		0	1	0
4-CHLOROPHENYL PHENYL ETHER		0	1	0
4-METHYLPHENOL		0	1	0
4-NITROANILINE		0	1	0
4-NITROPHENOL		0	1	0
ACENAPHTHENE		0	1	0
ACENAPHTHYLENE		0	1	0
ANTHRACENE		0	1	0
BENZO(a)ANTHRACENE		0	1	0
BENZO(a)PYRENE		0	1	0
BENZO(b)FLUORANTHENE		0	1	0
BENZO(ghi)PERYLENE		0	1	0
BENZO(k)FLUORANTHENE		0	1	0
BENZOIC ACID		0	1	0
BENZYL ALCOHOL		0	1	0
BIS(2-CHLOROETHOXY)METHANE		0	1	0
BIS(2-CHLOROETHYL)ETHER		0	1	0
BIS(2-CHLOROISOPROPYL)ETHER		0	1	0
BIS(2-ETHYLHEXYL)PHTHALATE		0	1	0
BUTYL BENZYL PHTHALATE		0	1	0
CHRYSENE		0	1	0
DI-n-BUTYL PHTHALATE		0	1	0
DI-n-OCTYL PHTHALATE		0	1	0
DIBENZO(a,h)ANTHRACENE		0	1	0
DIBENZOFURAN		0	1	0
DIETHYL PHTHALATE		0	1	0
DIMETHYL PHTHALATE		0	1	0
FLUORANTHENE		0	1	0
FLUORENE		0	1	0
HEXACHLOROBENZENE		0	1	0
HEXACHLOROBUTADIENE		0	1	0
HEXACHLOROCYCLOPENTADIENE		0	1	0
HEXACHLOROETHANE		0	1	0
INDENO(1,2,3-cd)PYRENE		0	1	0
ISOPHORONE		0	1	0
N-NITROSO-DI-n-PROPYLAMINE		0	1	0
N-NITROSODIPHENYLAMINE		0	1	0
NAPHTHALENE		0	1	0
NITROBENZENE		0	1	0
PENTACHLOROPHENOL		0	1	0
PHENANTHRENE		0	1	0
PHENOL		0	1	0
PYRENE		0	1	0
p-BROMODIPHENYL ETHER		0	1	0
Test Group:METADD Units: µg/L				

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

CESIUM	SS301393 (1)	1	20	12.21
LITHIUM		0	21	0
MOLYBDENUM		0	21	0
SILICON		0	1	0
STRONTIUM	SS305893 (1)	1	21	1.0345
TIN		0	21	0
Test Group:SMETCLP Units: µg/L				
ALUMINUM	SS305893 (1)	11	21	220.5285
ANTIMONY		0	21	0
ARSENIC		0	21	0
BARIUM	SS301393 (1)	6	21	4.2429
BERYLLIUM		0	21	0
CADMIUM		0	21	0
CALCIUM	SS305893 (1)	2	21	249.9381
CHROMIUM		0	21	0
COBALT	SS300193 (1)	1	21	3.1548
COPPER	SS304193 (1)	5	21	2.6786
IRON	SS300193 (1)	4	20	76.5725
LEAD	SS306793 (1)	12	21	2.8429
LITHIUM		0	7	0
MAGNESIUM	SS305893 (1)	4	25	35.406
MANGANESE	SS305893 (1)	7	21	7.2429
MERCURY		0	21	0
NICKEL	SS306793 (1)	2	21	2.5357
POTASSIUM	SS304193 (1)	13	21	106.8905
SELENIUM	SS306393 (1)	1	21	1.4524
SILVER		0	21	0
SODIUM	SS305893 (1)	8	21	120.9714
THALLIUM		0	21	0
VANADIUM	SS305893 (1)	1	21	1.1571
ZINC		0	21	0
Test Group:TRADS Units: pCi/L				
AMERICIUM-241	SS304393 (1)	29	29	0.0025
CESIUM-134	SS300193 (1)	1	1	-0.493
CESIUM-137	SS300193 (1)	1	1	0.646
GROSS ALPHA	SS302293 (1)	29	29	0.0517
GROSS BETA	SS305093 (1)	29	29	0.4426
PLUTONIUM-239/240	SS306393 (1)	29	29	0.0006
STRONTIUM-89,90	SS300193 (1)	1	1	-0.002
TRITIUM	SS301593 (1)	28	28	-29.289
URANIUM-233,-234	SS306793 (1)	29	29	0.0903
URANIUM-235	SS306793 (1)	29	29	0.0364
URANIUM-238	SS303993 (1)	29	29	0.0693
Test Group:VOA8240 Units: µg/L				
1,1,1-TRICHLOROETHANE		0	5	0
1,1,2,2-TETRACHLOROETHANE		0	5	0
1,1,2-TRICHLOROETHANE		0	5	0
1,1-DICHLOROETHANE		0	5	0
1,1-DICHLOROETHENE		0	5	0
1,2-DICHLOROETHANE		0	5	0
1,2-DICHLOROPROPANE		0	5	0
2-BUTANONE		0	5	0
2-CHLOROETHYL VINYL ETHER		0	5	0
2-HEXANONE		0	5	0
4-METHYL-2-PENTANONE		0	5	0
ACETONE		0	5	0
BENZENE		0	5	0
BROMODICHLOROMETHANE		0	5	0
BROMOFORM		0	5	0
BROMOMETHANE		0	5	0
CARBON DISULFIDE		0	5	0
CARBON TETRACHLORIDE		0	5	0
CHLOROBENZENE		0	5	0
CHLOROETHANE		0	5	0
CHLOROFORM		0	5	0
CHLOROMETHANE		0	5	0
DIBROMOCHLOROMETHANE		0	5	0
ETHYLBENZENE		0	5	0
METHYLENE CHLORIDE		0	5	0

TABLE C-22
OU13 Surface-Soil Rinsate Data Summary

STYRENE		0	5	0
TETRACHLOROETHENE		0	5	0
TOLUENE	SS309293 (1)	1	5	2.4
TOTAL XYLENES		0	5	0
TRICHLOROETHENE		0	5	0
VINYL ACETATE		0	5	0
VINYL CHLORIDE		0	5	0
cis-1,3-DICHLOROPROPENE		0	5	0
trans-1,2-DICHLOROETHENE		0	5	0
trans-1,3-DICHLOROPROPENE		0	5	0

Notes:
pCi/g = picocuries per gram
µg/L = micrograms per liter

TABLE C-23
OU13 Surface-Soil Rinsate Positive Results Data Summary

	MDL	SQL Minimum Value	SQL Minimum Location *	SQL Maximum Value	SQL Maximum Location *	Minimum Concentration	Minimum Concentration Location *
Test Group:BNACLP Units: µg/L							
Test Group:METADD Units: µg/L							
CESIUM	1000	16	SS303993 (7)	40	SS300493 (1)	40 B:J	SS301393 (1)
STRONTIUM	200	0.6	SS303993 (8)	4.2	SS300193 (1)	9 B:V	SS305893 (1)
Test Group:SMETCLP Units: µg/L							
ALUMINUM	200	15	SS300193 (1)	33.4	SS304193 (1)	18.4 B:V	SS309993 (1)
BARIUM	200	0.8	SS300193 (1)	3.1	SS306093 (1)	1 B:V	SS309993 (2)
CALCIUM	5000	83.4	SS300193 (1)	682	SS300893 (1)	830 B:V	SS300493 (1)
COBALT	50	2.1	SS301393 (1)	2.4	SS300493 (19)	42.4 :V	SS300193 (1)
COPPER	25	2.1	SS300893 (5)	23.2	SS300193 (1)	2.5 B:V	SS303993 (1)
IRON	100	7.4	SS303993 (5)	55.8	SS300493 (1)	10.6 B:J	SS306093 (1)
LEAD	3	1	SS304193 (3)	6.6	SS300493 (1)	1.9 B:J	SS301393 (1)
MAGNESIUM	5000	13.3	SS301593 (2)	91.6	SS300893 (1)	27.4 B:V	SS309993 (1)
MANGANESE	15	0.9	SS301393 (11)	3.1	SS306993 (1)	2.2 B:V	SS306793 (1)
NICKEL	40	4.2	SS300493 (17)	6.5	SS301393 (1)	5.1 B:V	SS307493 (1)
POTASSIUM	5000	65.3	SS304393 (4)	468	SS310393 (1)	66.9 B:V	SS306993 (1)
SELENIUM	5	2.1	SS300493 (3)	2.9	SS310393 (1)	3.5 B:V	SS306393 (1)
SODIUM	5000	61	SS309293 (1)	167	SS309993 (1)	100 B:V	SS307493 (1)
VANADIUM	50	2.1	SS300493 (18)	2.4	SS300193 (1)	3.1 B:V	SS305893 (1)
Test Group:TRADS Units: pCi/L							
AMERICIUM-241	0.005	**	**	**	**	-.001(.001) J:V	SS303193 (2)
CESIUM-134	1.283	**	**	**	**	-.493(.756) J:V	SS300193 (1)
CESIUM-137	1.187	**	**	**	**	.646(.728) X:V	SS300193 (1)
GROSS ALPHA	1	**	**	**	**	-.22(.54) U:A	SS309293 (1)
GROSS BETA	1	**	**	**	**	-.526(.701) J:V	SS300493 (1)
PLUTONIUM-239/240	0.01	**	**	**	**	-.002(.003) J:VV	SS302793 (4)
STRONTIUM-89,90	0.604	**	**	**	**	-.002(.269) J:V	SS300193 (1)
TRITIUM	200	**	**	**	**	-105(226) J:V	SS300193 (1)
URANIUM-233,-234	0.2	**	**	**	**	-.035(.06) J:V	SS302393 (1)
URANIUM-235	0.2	**	**	**	**	-.023(.023) J:V	SS306093 (1)
URANIUM-238	0.2	**	**	**	**	-.024(.048) U:V	SS309393 (1)
Test Group:VOA8240 Units: µg/L							
TOLUENE	5	5	SS309393 (4)	5	SS309393 (4)	2 J:A	SS309293 (1)

TABLE C-23

OU13 Surface-Soil Rinsate Positive Results Data Summary

	MDL	Maximum Concentration	Maximum Concentration Location *	Number of Detects	Total Number of Samples	Average Concentration
Test Group:BNACLP Units: µg/L						
Test Group:METADD Units: µg/L						
CESIUM	1000	40 B:J	SS301393 (1)	1	20	12.21
STRONTIUM	200	9 B:V	SS305893 (1)	1	21	1.0345
Test Group:SMETCLP Units: µg/L						
ALUMINUM	200	2480 :V	SS305893 (1)	11	21	220.5285
BARIUM	200	30.6 B:J	SS301393 (1)	6	21	4.2429
CALCIUM	5000	2770 B:V	SS305893 (1)	2	21	249.9381
COBALT	50	42.4 :V	SS300193 (1)	1	21	3.1548
COPPER	25	5 B:V	SS304193 (1)	5	21	2.6786
IRON	100	1050 :V	SS300193 (1)	4	20	76.5725
LEAD	3	8.2 :J	SS306793 (1)	12	21	2.8429
MAGNESIUM	5000	384 B:V	SS305893 (1)	4	25	35.406
MANGANESE	15	76.7 :V	SS305893 (1)	7	21	7.2429
NICKEL	40	7 B:V	SS306793 (1)	2	21	2.5357
POTASSIUM	5000	529 B:V	SS304193 (1)	13	21	106.8905
SELENIUM	5	3.5 B:V	SS306393 (1)	1	21	1.4524
SODIUM	5000	581 B:V	SS305893 (1)	8	21	120.9714
VANADIUM	50	3.1 B:V	SS305893 (1)	1	21	1.1571
Test Group:TRADS Units: pCi/L						
AMERICIUM-241	0.005	.008(.007) :V	SS304393 (1)	29	29	0.0025
CESIUM-134	1.283	-.493(.756) J:V	SS300193 (1)	1	1	-0.493
CESIUM-137	1.187	.646(.728) X:V	SS300193 (1)	1	1	0.646
GROSS ALPHA	1	.239(.223) J:V	SS302293 (1)	29	29	0.0517
GROSS BETA	1	1.205(.819) J:V	SS305093 (1)	29	29	0.4426
PLUTONIUM-239/240	0.01	.007(.007) :VV	SS306393 (1)	29	29	0.0006
STRONTIUM-89,90	0.604	-.002(.269) J:V	SS300193 (1)	1	1	-0.002
TRITIUM	200	87.47(217) X:V	SS301593 (1)	28	28	-29.289
URANIUM-233,-234	0.2	.4(.212) :V	SS306793 (1)	29	29	0.0903
URANIUM-235	0.2	.275(.177) :V	SS306793 (1)	29	29	0.0364
URANIUM-238	0.2	.807(.335) :V	SS303993 (1)	29	29	0.0693
Test Group:VOA8240 Units: µg/L						
TOLUENE	5	2 J:A	SS309293 (1)	1	5	2.4

APPENDIX D

Summary of Data Quality Assessment

TABLE D-1
OU13 Surface-Soil Samples
Rejected Data
Rocky Flats Environmental Technology Site

IHSS	Sample Location	Sample ID Number	Analyte	Result Unit	Laboratory Qualifier	Data Validation Qualifier
117.2	SS30019	SSG1694JE	ANTIMONY	2.500 mg/kg	U	R
117.2	SS30029	SSG1695JE	ANTIMONY	2.600 mg/kg	U	R
157.1	SS30109	SSG1703JE	BENZYL ALCOHOL	350.000 µg/kg	U	R
157.1	SS30129	SSG1705JE	BENZYL ALCOHOL	360.000 µg/kg	U	R
157.1	SS30139	SSG1706JE	BENZYL ALCOHOL	340.000 µg/kg	U	R
158	SS30409	SSG1733JE	CADMIUM	0.160 mg/kg	U	R
158	SS30429	SSG1735JE	CADMIUM	0.170 mg/kg	U	R
158	SS30449	SSG1737JE	CADMIUM	0.160 mg/kg	U	R
158	SS30459	SSG1820JE	CADMIUM	0.170 mg/kg	U	R
117.2	SS30589	SSG1752JE	CADMIUM	0.160 mg/kg	U	R
134N	SS31039	SSG1798JE	CESIUM	3.500 mg/kg	U	R
117.2	SS30609	SSG1754JE	PLUTONIUM-239/240	0.028 pCi/g		R
117.2	SS30619	SSG1755JE	PLUTONIUM-239/240	0.246 pCi/g		R
148	SS30729	SSG1765JE	PLUTONIUM-239/240	0.069 pCi/g		R
148	SS30779	SSG1770JE	PLUTONIUM-239/240	0.080 pCi/g	J	R
117.3	SS30859	SSG1779JE	PLUTONIUM-239/240	0.144 pCi/g		R
117.3	SS30879	SSG1781JE	PLUTONIUM-239/240	0.018 pCi/g	J	R

Notes:

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
R = rejected
U = undetected
V = Validation Qualifier: valid data
µg/kg = micrograms per kilogram

TABLE D-2
Field Duplicate Results for IHSS 117.2
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS305893 SSG1752JE 28-Jun-94	SS305893 SSG1824JE 28-Jun-94	RPD	Data Accepted For Intended Use?*
Test Group:METADD Units:mg/kg				
CESIUM	5.90 B:JA	3.80 B:JA	43	Yes
LITHIUM	6.50 B:JA	6.90 B:JA	6	Yes
MOLYBDENUM				
STRONTIUM	15.20 B:JA	16.70 B:JA	9	Yes
Test Group:SMETCLP Units:mg/kg				
ALUMINUM	7590.00 :V	7910.00 :V	4	Yes
ARSENIC	4.60 :V	4.60 :V	0	Yes
BARIUM	52.70 :V	95.70 :V	58	Yes
CALCIUM	2850.00 :V	3020.00 :V	6	Yes
CHROMIUM	18.40 :V	19.30 :V	5	Yes
COBALT	4.60 B:V	5.50 :V	18	Yes
COPPER	21.50 :V	22.00 :V	2	Yes
IRON	12500 :V	13300.00 :V	6	Yes
LEAD	47.90 :V	55.50 :V	15	Yes
MAGNESIUM	2580.00 :V	2750.00 :V	6	Yes
MANGANESE	191.00 :V	352.00 :V	59	Yes
MERCURY	0.07 :V	0.05 B:V	30	Yes
NICKEL	12.70 :V	12.80 :V	1	Yes
POTASSIUM	1230.00 :V	1340.00 :V	9	Yes
SELENIUM	<.55 :V	0.72 B:V	NC	Not Applicable
SILVER	<.81 :V	0.78 B:V	NC	Not Applicable
SODIUM	252 B:V	273.00 B:V	8	Yes
VANADIUM	23.90 :V	26.20 :V	9	Yes
ZINC	240 :V	257 :V	7	Yes
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.092 :V	0.169 :V	59	Yes
GROSS ALPHA	19.37 :V	22.82 :V	16	Yes
GROSS BETA	42.04 :V	40.46 :V	4	Yes
PLUTONIUM-239/240	0.213 :V	0.225 :V	5	Yes
TRITIUM	-1.93 J:V	-117.000 J:V	194	No
URANIUM-233,-234	1.535 :V	1.231 :V	22	Yes
URANIUM-235	0.049 :V	0.049 J:V	0	Yes
URANIUM-238	1.379 :V	1.443 :V	5	Yes

TABLE D-2
Field Duplicate Results for IHSS 117.3
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS307993 SSG1773JE 8-Jul-94	SS307993 SSG1832JE 8-Jul-94	RPD	Data Accepted For Intended Use?*
Test Group:METADD Units:mg/kg				
CESIUM	<3.3 :J	5.90 :J	NC	Not Applicable
LITHIUM	7.20 B:J	7.20 B:J	0	Yes
MOLYBDENUM	3.80 B:V	3.60 B:V	5	Yes
STRONTIUM	30.50 B:J	29.50 B:J	3	Yes
Test Group:SMETCLP Units:mg/kg				
ALUMINUM	13000.00 I:J	13000.00 I:J	0	Yes
ARSENIC	8.40 :V	8.60 :V	2	Yes
BARIUM	98.50 I:J	96.50 I:J	2	Yes
BERYLLIUM	1.10 :V	1.00 :V	10	Yes
CALCIUM	13000.00 :V	11300.00 :V	14	Yes
CHROMIUM	16.40 :V	16.10 :V	2	Yes
COBALT	6.30 :V	6.10 :V	3	Yes
COPPER	11.30 :V	11.60 :V	3	Yes
IRON	14500.00 I:J	14700.00 I:J	1	Yes
LEAD	19.60 :V	18.00 :V	9	Yes
MAGNESIUM	2150.00 I:J	2120.00 I:J	1	Yes
MANGANESE	174.00 I:J	161.00 I:J	8	Yes
MERCURY	0.08 B:V	0.08 B:V	1	Yes
NICKEL	13.20 :V	12.80 :V	3	Yes
POTASSIUM	1460.00 I:J	1410.00 I:J	3	Yes
SELENIUM	1.10 :V	0.87 B:V	23	Yes
SILVER	2.70 :V	2.3000 :V	16	Yes
VANADIUM	33.20 I:J	32.81 I:J	1	Yes
ZINC	64.20 :V	58.40 :V	9	Yes
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.019 :V	0.005 J:V	117	Yes
GROSS ALPHA	25.37 :V	23.11 :V	9	Yes
GROSS BETA	33.84 :V	39.97 :V	17	Yes
PLUTONIUM-239/240	0.099 :V	0.02 :V	133	Yes
TRITIUM	-53.1 J:V	2.896 J:V	223	No
URANIUM-233,-234	1.245 :V	1.735 :V	33	Yes
URANIUM-235	0.032 J:V	0.023 :V	33	Yes
URANIUM-238	1.311 :V	1.553 :V	17	Yes
Test Group:WQPL Units:pH				
pH	7.93 :V	8.01 :V	1	Yes

TABLE D-2
Field Duplicate Results for IHSS 134S
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS302993 SSG1722JE 15-Jun-94	SS302993 SSG1813JE 15-Jun-94	RPD	Data Accepted For Intended Use?*
Test Group:SMETCLP Units:mg/kg				
LITHIUM	4.7 B:V	7.2 B:V	42	Yes
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.032 :V	0.018 :V	56	Yes
GROSS ALPHA	24.49 :V	21.09 :V	15	Yes
GROSS BETA	32.13 :V	36.73 :V	13	Yes
PLUTONIUM-239/240	0.062 :V	0.047 :V	28	Yes
TRITIUM	53.87 X:V	95.23 X:V	55	Yes
URANIUM-233,-234	1.563 :V	1.247 :V	22	Yes
URANIUM-235	0.075 :V	0.069 J:A	8	Yes
URANIUM-238	2.002 :V	1.426 :A	34	Yes
Test Group:WQPL Units:%Rec				
% SOLIDS BY WEIGHT	93.3 :V	92.7 :V	1	Yes

TABLE D-2
Field Duplicate Results for IHSS 148
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS306993 SSG1762JE 5-Jul-94	SS306993 SSG1828JE 5-Jul-94	RPD	Data Accepted For Intended Use?*
Test Group:METADD Units:mg/kg				
CESIUM	8.2 B:J	4.2 B:J	65	Yes
LITHIUM	13.1 B:J	12.2 B:J	7	Yes
MOLYBDENUM	5.4 B:J	5.1 B:V	6	Yes
STRONTIUM	50.2 :J	49 :J	2	Yes
Test Group:SMETCLP Units:mg/kg				
ALUMINUM	15100 I:J	13200 I:J	13	Yes
ANTIMONY	<2.7 :J	4.10 B:J	NC	Not Applicable
ARSENIC	7.3 :V	6.6 :V	10	Yes
BARIUM	111 I:J	108 I:J	3	Yes
BERYLLIUM	0.63 B:V	0.59 B:V	7	Yes
CALCIUM	5370.00 :V	5200 :V	3	Yes
CHROMIUM	75.9 :V	64.2 :V	17	Yes
COBALT	8.8 B:V	8.5 B:V	3	Yes
COPPER	43.4 :V	38.9 :V	11	Yes
IRON	18700 I:J	17300 I:J	8	Yes
LEAD	62.4 :V	50.3 :V	21	Yes
MAGNESIUM	4580 I:J	4420 I:J	4	Yes
MANGANESE	323 I:J	283 I:J	13	Yes
MERCURY	<.048 :V	0.052 B:J	NC	Not Applicable
NICKEL	30.2 :V	27.5 :V	9	Yes
POTASSIUM	3390 I:J	3260 I:J	4	Yes
SELENIUM	1.3 :V	1.1 :V	17	Yes
SILVER	1.6 B:V	1.3 B:V	21	Yes
SODIUM	87.6 B:J	100 B:V	13	Yes
VANADIUM	37 I:J	33.9 I:J	9	Yes
ZINC	302 :V	270 :V	11	Yes
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.052 :V	0.027 :V	63	Yes
GROSS ALPHA	23.54 :V	25.78 :V	9	Yes
GROSS BETA	38.85 :V	39.97 :V	3	Yes
PLUTONIUM-239/240	0.104 :V	0.09 :V	14	Yes
TRITIUM	-9.65 J:V	-82 J:V	158	Yes
URANIUM-233,-234	1.609 :V	1.681 :V	4	Yes
URANIUM-235	0.037 :V	0.076 :V	69	Yes
URANIUM-238	1.567 :V	1.715 :V	9	Yes

TABLE D-2
Field Duplicate Results for IHSS 157.1
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS300893 SSG1701JE 6-Jun-94	SS300893 SSG1701JE	SS300893 SSG1802JE 6-Jun-94	SS300893 SSG1802JE	RPD	Data Accepted For Intended Use?
Test Group:BNACLP Units:µg/kg						
BENZO(a)ANTHRACENE	97	J:Y	140	J:Y	36	Yes
BENZO(a)PYRENE	120	J:Y	170	J:Y	34	Yes
BENZO(b)FLUORANTHENE	140	J:Y	210	J:Y	40	Yes
BENZO(k)FLUORANTHENE	60	J:Y	77	J:Y	25	Yes
BIS(2-ETHYLHEXYL)PHTHALATE	100	J:Y	63	J:Y	45	Yes
BUTYL BENZYL PHTHALATE	140	J:Y	<350	:Y	NC	Not Applicable
CHRYSENE	120	J:Y	160	J:Y	29	Yes
DI-n-BUTYL PHTHALATE	130	J:Y	38	J:Y	110	Yes
FLUORANTHENE	270	J:Y	350	:Y	26	Yes
INDENO(1,2,3-cd)PYRENE	85	J:Y	120	J:Y	34	Yes
PHENANTHRENE	190	J:Y	220	J:Y	15	Yes
PYRENE	230	J:Y	280	J:Y	20	Yes
Test Group:METADD Units:mg/kg						
CESIUM	8.4	B:J	8.6	B:J	2	Yes
LITHIUM	6.1	B:J	6.7	B:J	9	Yes
STRONTIUM	21.2	B:J	23	B:J	8	Yes
Test Group:SMETCLP Units:mg/kg						
ALUMINUM	7380	:V	8240	:V	11	Yes
ARSENIC	5.2	:V	5.7	:V	9	Yes
BARIUM	63.5	:V	68.7	:V	8	Yes
BERYLLIUM	0.58	B:V	0.58	B:V	0	Yes
CALCIUM	4690	:V	4520.0	:V	4	Yes
CHROMIUM	8.5	:V	9.3	:V	9	Yes
COBALT	4.4	B:V	4.8	B:V	9	Yes
COPPER	15	:V	15.5	:V	3	Yes
IRON	11100	:V	12700	:V	13	Yes
LEAD	11.8	:V	12.6	:V	7	Yes
MAGNESIUM	2360	:V	2540.0	:V	7	Yes
MANGANESE	172	:V	180.0	:V	5	Yes
MERCURY	0.055	B:V	0.059	B:V	7	Yes
NICKEL	6.9	B:V	7.5	B:V	8	Yes
POTASSIUM	1390	:V	1510.0	:V	8	Yes
SODIUM	145	B:V	156.0	B:V	7	Yes
VANADIUM	23.1	:V	26.5	:V	14	Yes
ZINC	49.3	:V	47.4	:V	4	Yes
Test Group:TRADS Units:pCi/g						
AMERICIUM-241	0.012	:V	0.007	:V	53	Yes
GROSS ALPHA	25.8	:V	19.45	:V	28	Yes
GROSS BETA	20.96	:V	35.34	:V	51	Yes
PLUTONIUM-239/240	0.041	:V	0.015	:V	93	Yes
TRITIUM	206.9	J:V	45.24	J:V	128	Yes
URANIUM-233,-234	3.185	:V	1.203	:V	90	Yes
URANIUM-235	0.116	:V	0.031	:V	116	Yes
URANIUM-238	3.975	:V	1.38	:V	97	Yes
Test Group:WQPL Units:pH						
pH	8.89	:V	8.98	:V	1	Yes

TABLE D-2
Field Duplicate Results for IHSS 158
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS304593 SSG1738JE 23-Jun-94		SS304593 SSG1820JE 23-Jun-94		RPD	Data Accepted For Intended Use?*
Test Group:METADD Units:mg/kg						
CESIUM	4.2	B:J	6.4	B:J	42	Yes
LITHIUM	4.2	B:J	5.1	B:J	19	Yes
STRONTIUM	11.20	B:J	12.1	B:J	8	Yes
Test Group:SMETCLP Units:mg/kg						
ALUMINUM	4500	:V	5150	:V	13	Yes
ARSENIC	3	:V	3.1	:V	14	Yes
BARIUM	36.1	B:V	39.7	B:V	9	Yes
CALCIUM	4370	:V	5180	:V	17	Yes
CHROMIUM	8	:V	9.6	:V	18	Yes
COBALT	3	B:V	3.6	B:V	18	Yes
COPPER	287	:V	13	:V	183	No
IRON	7160	:V	8530	:V	17	Yes
LEAD	29.4	:V	41.7	:V	35	Yes
MAGNESIUM	1150	:V	1300	:V	12	Yes
MANGANESE	99.8	:V	118	:V	17	Yes
POTASSIUM	1310	:V	1400	:V	7	Yes
VANADIUM	13	:V	15.4	:V	17	Yes
ZINC	57.9	:V	52.9	:V	9	Yes
Test Group:TRADS Units:pCi/g						
AMERICIUM-241	0.12	:V	0.044	:V	93	Yes
GROSS ALPHA	25.72	:V	20.59	:V	22	Yes
GROSS BETA	37.79	:V	43.74	:V	15	Yes
PLUTONIUM-239/240	0.642	:V	0.139	:V	129	Yes
TRITIUM	-26.9	J:V	-86.6	J:V	105	Yes
URANIUM-233,-234	1.342	:V	1.242	:V	8	Yes
URANIUM-235	0.025	J:V	0.039	J:V	44	Yes
URANIUM-238	1.191	:V	1.136	:V	5	Yes

TABLE D-2
Field Duplicate Results for IHSS 171
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS302393 SSG1716JE 8-Jun-94		SS302393 SSG1806JE 8-Jun-94		RPD	Data Accepted For Intended Use?*
Test Group:SMETCLP Units:mg/kg						
LITHIUM	2.9	B:V	2.8	B:V	4	Yes
MAGNESIUM	1450	:V	1540	:V	6	Yes
Test Group:TRADS Units:pCi/g						
AMERICIUM-241	0.031	:V	0.022	:V	34	Yes
GROSS ALPHA	18.46	:V	16.82	:V	9	Yes
GROSS BETA	44.37	:V	42.53	:V	4	Yes
PLUTONIUM-239/240	0.048	:V	0.041	:V	16	Yes
TRITIUM	40.43	J:V	162.6	J:V	120	Yes
URANIUM-233,-234	1.256	:V	1.149	:V	9	Yes
URANIUM-235	0.012	J:V	0.039	:V	106	Yes
URANIUM-238	1.074	:V	1.223	:V	13	Yes
Test Group:WQPL Units:%Rec						
% SOLIDS BY WEIGHT	96.7	:V	96.8	:V	0	Yes

Sample Location: Sample Identification Number: Date Sampled:	SS302493 SSG1717JE 9-Jun-94		SS302493 SSG1808JE 9-Jun-94		RPD	Data Accepted For Intended Use?*
Test Group:SMETCLP Units:mg/kg						
LITHIUM	4.3	B:V	4.40	B:V	2	Yes
MAGNESIUM	2030	:V	2020.00	:V	0	Yes
Test Group:TRADS Units:pCi/g						
AMERICIUM-241	0.097	:V	0.121	:V	22	Yes
GROSS ALPHA	17.42	:V	23.78	:V	31	Yes
GROSS BETA	38.1	:V	41.35	:V	8	Yes
PLUTONIUM-239/240	0.135	:V	0.106	:V	24	Yes
TRITIUM	-1.92	J:V	109.7	J:V	207	No
URANIUM-233,-234	1.094	:V	1.155	:V	5	Yes
URANIUM-235	0.044	J:V	0.049	:V	11	Yes
URANIUM-238	0.996	:V	1.152	:V	15	Yes
Test Group:WQPL Units:%Rec						
% SOLIDS BY WEIGHT	96.1	:V	96.1	:V	0	Yes

TABLE D-2
Field Duplicate Results for IHSS 186
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS305693 SSG1749JE 20-Jun-94	SS305693 SSG1816JE 20-Jun-94	RPD	Data Accepted For Intended Use?*
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.221 :V	0.237 :V	7	Yes
GROSS ALPHA	24.12 :V	25.61 :V	6	Yes
GROSS BETA	38.87 :V	38.56 :V	1	Yes
PLUTONIUM-239/240	1.287 :V	1.78 :V	32	Yes
TRITIUM	2.886 J:V	13.47 J:V	129	Yes
URANIUM-233,-234	1.323 :V	1.289 :V	3	Yes
URANIUM-235	0.058 :V	0.058 :V	0	Yes
URANIUM-238	1.684 :V	1.703 :V	1	Yes

Table D-2
Field Duplicate Results for IHSS 197
Relative Percent Difference
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Sample Location: Sample Identification Number: Date Sampled:	SS309793 SSG11791JE 14-Jul-94	SS309793 SSG1836JE 14-Jul-94	RPD	Data Accepted For Intended Use?*
Test Group:METADD Units:mg/kg				
LITHIUM	4.7 B:J	5.1 B:J	8	Yes
MOLYBDENUM	2.1 B:V	2.1 B:V	0	Yes
STRONTIUM	12.1 B:J	12.4 B:J	2	Yes
Test Group:SMETCLP Units:mg/kg				
ALUMINUM	4650 :V	5040	8	Yes
ARSENIC	2.6 :V	2.5 :V	4	Yes
BARIUM	43.6 :V	46.5 :V	6	Yes
BERYLLIUM	0.26 :V	0.27 :V	4	Yes
CADMIUM	0.59 :V	0.57 B:V	3	Yes
CALCIUM	1910 :V	2110 :V	10	Yes
CHROMIUM	12.9 :V	15.3 :V	17	Yes
COBALT	4 B:V	4 B:V	0	Yes
COPPER	18.6 :V	17.3 :V	7	Yes
IRON	9680 :V	10700 :V	10	Yes
LEAD	37.2 :V	52.2 :V	34	Yes
MAGNESIUM	2040 :V	2130 :V	4	Yes
MANGANESE	176 :V	187 :V	6	Yes
NICKEL	8.6 :V	8.6 :V	0	Yes
POTASSIUM	1050 :V	1080 :V	3	Yes
SILVER	<.81 :V	0.96 B:V	NC	Not Applicable
SODIUM	176 B:V	232 B:V	27	Yes
VANADIUM	17.6 :V	18.8 :V	7	Yes
ZINC	395 :V	416 :V	5	Yes
Test Group:TRADS Units:pCi/g				
AMERICIUM-241	0.02 :V	0.016 J:V	22	Yes
GROSS ALPHA	4.9 :A	3.7 J:A	28	Yes
GROSS BETA	12 :A	13 :A	8	Yes
PLUTONIUM-239/240	0.044 B:V	0.045 B:V	2	Yes
URANIUM-233,-234	0.28 J:V	0.20 J:V	33	Yes
URANIUM-238	0.34 :V	0.29 J:V	16	Yes

Notes:

* No if RPD greater than 40 and difference of pair is more than one order of magnitude. Yes if RPD under one order of magnitude but flagged estimated if over 40.

A = Validation Qualifier: laboratory qualifier considered acceptable
B = Laboratory Qualifier: detected in blank
J = Laboratory Qualifier: estimated value
mg/kg = milligrams per kilogram
NC = not calculable
OU = Operable Unit
pCi/g = picocuries per gram

TABLE D-3
OU13 Surface-Soil Samples
Summary of Relative Percent Difference Values
Rocky Flats Environmental Technology Site

Analytical Parameter/Analyte	Required RPD Value	Total Number of Duplicate Positive Results	Total Number of Duplicates outside RPD criteria	Total Number of Duplicates within RPD criteria	Overall Precision Compliance
Test Group:WQPL Units: %Rec					
% SOLIDS BY WEIGHT	<40%	3	0	3	100%
pH	<40%	3	0	3	100%
Test Group:BNACLP Units:µg/kg					
2-METHYLNAPHTHALENE	<40%	1	1	0	0%
ACENAPHTHENE	<40%	1	1	0	0%
ANTHRACENE	<40%	1	1	0	0%
BENZO(a)ANTHRACENE	<40%	2	1	1	50%
BENZO(a)PYRENE	<40%	2	0	2	100%
BENZO(b)FLUORANTHENE	<40%	2	2	0	0%
BENZO(ghi)PERYLENE	<40%	1	0	1	100%
BENZO(k)FLUORANTHENE	<40%	2	1	1	50%
BENZOIC ACID	<40%	1	0	1	100%
BIS(2-ETHYLHEXYL)PHTHALATE	<40%	2	2	0	0%
CARBAZOLE	<40%	1	1	0	0%
CHRYSENE	<40%	2	0	2	100%
DI-n-BUTYL PHTHALATE	<40%	1	1	0	0%
DIBENZO(a,h)ANTHRACENE	<40%	1	0	1	100%
DIBENZOFURAN	<40%	1	1	0	0%
FLUORANTHENE	<40%	2	0	2	100%
FLUORENE	<40%	1	1	0	0%
INDENO(1,2,3-cd)PYRENE	<40%	2	0	2	100%
NAPHTHALENE	<40%	1	1	0	0%
PHENANTHRENE	<40%	2	0	2	100%
PYRENE	<40%	2	1	1	50%

Notes:

mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
RPD = Relative percent difference
µg/kg = micrograms per kilogram
% Rec = percent recovery

TABLE D-3
OU13 Surface-Soil Samples
Summary of Relative Percent Difference Values
Rocky Flats Environmental Technology Site

Analytical Parameter/Analyte	Required RPD Value	Total Number of Duplicate Positive Results	Total Number of Duplicates outside RPD criteria	Total Number of Duplicates within RPD criteria	Overall Precision Compliance
Test Group:METADD Units:mg/kg					
CESIUM	<40%	6	3	3	50%
LITHIUM	<40%	10	1	9	90%
MOLYBDENUM	<40%	3	0	3	100%
STRONTIUM	<40%	7	0	7	100%
Test Group:SMETCLP Units:mg/kg					
ALUMINUM	<40%	7	0	7	100%
ANTIMONY	<40%	1	0	1	100%
ARSENIC	<40%	7	0	7	100%
BARIUM	<40%	7	1	6	86%
BERYLLIUM	<40%	5	0	5	100%
CADMIUM	<40%	1	0	1	100%
CALCIUM	<40%	7	0	7	100%
CHROMIUM	<40%	7	0	7	100%
COBALT	<40%	7	0	7	100%
COPPER	<40%	7	1	6	86%
IRON	<40%	7	0	7	100%
LEAD	<40%	7	1	6	86%
MAGNESIUM	<40%	9	0	9	100%
MANGANESE	<40%	7	1	6	86%
MERCURY	<40%	5	0	5	100%
NICKEL	<40%	6	0	6	100%
POTASSIUM	<40%	7	0	7	100%
SELENIUM	<40%	3	0	3	100%
SILVER	<40%	4	0	4	100%
SODIUM	<40%	5	0	5	100%
VANADIUM	<40%	7	0	7	100%
ZINC	<40%	7	0	7	100%
Test Group:TRADS Units:pCi/g					
AMERICIUM-241	<40%	11	6	5	45%
GROSS ALPHA	<40%	11	0	11	100%
GROSS BETA	<40%	11	2	9	82%
PLUTONIUM-239/240	<40%	11	4	7	64%
TRITIUM	<40%	10	10	0	0%
URANIUM-233,-234	<40%	11	1	10	91%
URANIUM-235	<40%	11	4	7	64%
URANIUM-238	<40%	11	1	10	91%

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS308993	SSG1783JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308993	SSG1783JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308993	SSG1783JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308993	SSG1783JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308993	SSG1783JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308993	SSG1783JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308993	SSG1783JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308993	SSG1783JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308993	SSG1783JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308993	SSG1783JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308993	SSG1783JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308993	SSG1783JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308993	SSG1783JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308993	SSG1783JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308993	SSG1783JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308993	SSG1783JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308993	SSG1783JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308993	SSG1783JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308993	SSG1783JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308993	SSG1783JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308993	SSG1783JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308993	SSG1783JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308993	SSG1783JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308993	SSG1783JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308993	SSG1783JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308993	SSG1783JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308993	SSG1783JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308993	SSG1783JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS308993	SSG1783JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308993	SSG1783JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308993	SSG1783JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS308993	SSG1783JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS308993	SSG1783JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309093	SSG1784JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309093	SSG1784JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309093	SSG1784JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309093	SSG1784JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309093	SSG1784JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309093	SSG1784JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309093	SSG1784JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309093	SSG1784JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309093	SSG1784JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309093	SSG1784JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309093	SSG1784JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309093	SSG1784JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309093	SSG1784JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309093	SSG1784JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309093	SSG1784JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309093	SSG1784JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309093	SSG1784JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309093	SSG1784JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309093	SSG1784JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309093	SSG1784JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309093	SSG1784JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309093	SSG1784JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309093	SSG1784JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309093	SSG1784JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309093	SSG1784JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309093	SSG1784JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309093	SSG1784JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309093	SSG1784JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309093	SSG1784JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309093	SSG1784JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309093	SSG1784JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309093	SSG1784JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309093	SSG1784JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309193	SSG1785JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309193	SSG1785JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309193	SSG1785JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309193	SSG1785JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309193	SSG1785JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309193	SSG1785JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309193	SSG1785JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309193	SSG1785JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS309193	SSG1785JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309193	SSG1785JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309193	SSG1785JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309193	SSG1785JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309193	SSG1785JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309193	SSG1785JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309193	SSG1785JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309193	SSG1785JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309193	SSG1785JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309193	SSG1785JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309193	SSG1785JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309193	SSG1785JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309193	SSG1785JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309193	SSG1785JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309193	SSG1785JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309193	SSG1785JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309193	SSG1785JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309193	SSG1785JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309193	SSG1785JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309193	SSG1785JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309193	SSG1785JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309193	SSG1785JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309193	SSG1785JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309193	SSG1785JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309193	SSG1785JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309293	SSG1786JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309293	SSG1786JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309293	SSG1786JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309293	SSG1786JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309293	SSG1786JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309293	SSG1786JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309293	SSG1786JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309293	SSG1786JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309293	SSG1786JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309293	SSG1786JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309293	SSG1786JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309293	SSG1786JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309293	SSG1786JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309293	SSG1786JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309293	SSG1786JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309293	SSG1786JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309293	SSG1786JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309293	SSG1786JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309293	SSG1786JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309293	SSG1786JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309293	SSG1786JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309293	SSG1786JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309293	SSG1786JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309293	SSG1786JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309293	SSG1786JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309293	SSG1786JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309293	SSG1786JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309293	SSG1786JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309293	SSG1786JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309293	SSG1786JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309293	SSG1786JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309293	SSG1786JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309293	SSG1786JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309393	SSG1787JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309393	SSG1787JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309393	SSG1787JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309393	SSG1787JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309393	SSG1787JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309393	SSG1787JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309393	SSG1787JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309393	SSG1787JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309393	SSG1787JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309393	SSG1787JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309393	SSG1787JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309393	SSG1787JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309393	SSG1787JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309393	SSG1787JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309393	SSG1787JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309393	SSG1787JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS309393	SSG1787JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309393	SSG1787JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309393	SSG1787JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309393	SSG1787JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309393	SSG1787JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309393	SSG1787JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309393	SSG1787JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309393	SSG1787JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309393	SSG1787JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309393	SSG1787JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309393	SSG1787JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309393	SSG1787JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309393	SSG1787JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309393	SSG1787JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309393	SSG1787JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309393	SSG1787JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309393	SSG1787JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309493	SSG1788JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309493	SSG1788JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309493	SSG1788JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309493	SSG1788JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309493	SSG1788JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309493	SSG1788JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309493	SSG1788JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309493	SSG1788JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309493	SSG1788JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309493	SSG1788JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309493	SSG1788JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309493	SSG1788JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309493	SSG1788JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309493	SSG1788JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309493	SSG1788JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309493	SSG1788JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309493	SSG1788JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309493	SSG1788JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309493	SSG1788JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309493	SSG1788JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309493	SSG1788JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309493	SSG1788JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309493	SSG1788JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309493	SSG1788JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309493	SSG1788JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309493	SSG1788JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309493	SSG1788JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309493	SSG1788JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309493	SSG1788JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309493	SSG1788JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309493	SSG1788JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309493	SSG1788JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309493	SSG1788JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309593	SSG1789JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309593	SSG1789JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309593	SSG1789JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309593	SSG1789JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309593	SSG1789JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309593	SSG1789JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309593	SSG1789JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309593	SSG1789JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309593	SSG1789JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309593	SSG1789JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309593	SSG1789JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309593	SSG1789JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309593	SSG1789JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309593	SSG1789JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309593	SSG1789JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309593	SSG1789JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309593	SSG1789JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309593	SSG1789JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309593	SSG1789JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309593	SSG1789JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309593	SSG1789JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309593	SSG1789JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309593	SSG1789JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309593	SSG1789JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS309593	SSG1789JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309593	SSG1789JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309593	SSG1789JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309593	SSG1789JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309593	SSG1789JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309593	SSG1789JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309593	SSG1789JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309593	SSG1789JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309593	SSG1789JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310093	SSG1794JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS310093	SSG1794JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310093	SSG1794JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310093	SSG1794JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310093	SSG1794JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310093	SSG1794JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310093	SSG1794JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS310093	SSG1794JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310093	SSG1794JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310093	SSG1794JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310093	SSG1794JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310093	SSG1794JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS310093	SSG1794JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310093	SSG1794JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310093	SSG1794JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS310093	SSG1794JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310093	SSG1794JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS310093	SSG1794JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310093	SSG1794JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS310093	SSG1794JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS310093	SSG1794JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310093	SSG1794JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS310093	SSG1794JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310093	SSG1794JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310093	SSG1794JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310093	SSG1794JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310093	SSG1794JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS310093	SSG1794JE	TRADS	TRITIUM	1000.000 pCi/L	400.000 pCi/L	600.000 pCi/L
SS310093	SSG1794JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310093	SSG1794JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310093	SSG1794JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310093	SSG1794JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310093	SSG1794JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS310093	SSG1794JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310193	SSG1795JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS310193	SSG1795JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310193	SSG1795JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310193	SSG1795JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310193	SSG1795JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310193	SSG1795JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310193	SSG1795JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS310193	SSG1795JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310193	SSG1795JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310193	SSG1795JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310193	SSG1795JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310193	SSG1795JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS310193	SSG1795JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310193	SSG1795JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310193	SSG1795JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS310193	SSG1795JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310193	SSG1795JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS310193	SSG1795JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310193	SSG1795JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS310193	SSG1795JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS310193	SSG1795JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310193	SSG1795JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS310193	SSG1795JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310193	SSG1795JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310193	SSG1795JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310193	SSG1795JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310193	SSG1795JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS310193	SSG1795JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310193	SSG1795JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310193	SSG1795JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310193	SSG1795JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS310193	SSG1795JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS310193	SSG1795JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310293	SSG1796JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS310293	SSG1796JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310293	SSG1796JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310293	SSG1796JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310293	SSG1796JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310293	SSG1796JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310293	SSG1796JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS310293	SSG1796JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310293	SSG1796JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310293	SSG1796JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310293	SSG1796JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310293	SSG1796JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS310293	SSG1796JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310293	SSG1796JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310293	SSG1796JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS310293	SSG1796JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310293	SSG1796JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS310293	SSG1796JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310293	SSG1796JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS310293	SSG1796JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS310293	SSG1796JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310293	SSG1796JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS310293	SSG1796JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310293	SSG1796JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310293	SSG1796JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310293	SSG1796JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310293	SSG1796JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS310293	SSG1796JE	TRADS	TRITIUM	500.000 pCi/L	400.000 pCi/L	100.000 pCi/L
SS310293	SSG1796JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310293	SSG1796JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310293	SSG1796JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310293	SSG1796JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310293	SSG1796JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS310293	SSG1796JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.2						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS300193	SSG1694JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300193	SSG1694JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300193	SSG1694JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300193	SSG1694JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300193	SSG1694JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300193	SSG1694JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300193	SSG1694JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300193	SSG1694JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300193	SSG1694JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300193	SSG1694JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300193	SSG1694JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300193	SSG1694JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300193	SSG1694JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300193	SSG1694JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300193	SSG1694JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300193	SSG1694JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300193	SSG1694JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300193	SSG1694JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300193	SSG1694JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300193	SSG1694JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300193	SSG1694JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300193	SSG1694JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300193	SSG1694JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300193	SSG1694JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300193	SSG1694JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300193	SSG1694JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300193	SSG1694JE	TRADS	CESIUM-137	0.032 mg/kg	0.010 mg/kg	0.022 mg/kg
SS300193	SSG1694JE	TRADS	RADIUM-226	0.444 µg/kg	0.050 µg/kg	0.394 µg/kg
SS300193	SSG1694JE	TRADS	RADIUM-228	0.094 µg/kg	0.050 µg/kg	0.05 µg/kg
SS300293	SSG1695JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS300293	SSG1695JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS300293	SSG1695JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300293	SSG1695JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300293	SSG1695JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300293	SSG1695JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300293	SSG1695JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300293	SSG1695JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300293	SSG1695JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300293	SSG1695JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300293	SSG1695JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300293	SSG1695JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300293	SSG1695JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300293	SSG1695JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300293	SSG1695JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300293	SSG1695JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300293	SSG1695JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300293	SSG1695JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300293	SSG1695JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300293	SSG1695JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300293	SSG1695JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300293	SSG1695JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300293	SSG1695JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300293	SSG1695JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300293	SSG1695JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300293	SSG1695JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300293	SSG1695JE	TRADS	CESIUM-137	0.026 mg/kg	0.010 mg/kg	0.016 mg/kg
SS300293	SSG1695JE	TRADS	RADIUM-226	0.428 mg/kg	0.050 mg/kg	0.378 mg/kg
SS300293	SSG1695JE	TRADS	RADIUM-228	0.107 mg/kg	0.050 mg/kg	0.057 mg/kg
SS305893	SSG1752JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS305893	SSG1752JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS305893	SSG1752JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS305893	SSG1752JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS305893	SSG1752JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS305893	SSG1752JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS305893	SSG1752JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS305893	SSG1752JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS305893	SSG1752JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS305893	SSG1752JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS305893	SSG1752JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS305893	SSG1752JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS305893	SSG1752JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305893	SSG1752JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS305893	SSG1752JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS305893	SSG1752JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.2						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS305893	SSG1752JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS305893	SSG1752JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305893	SSG1752JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS305893	SSG1752JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS305893	SSG1752JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305893	SSG1752JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS305893	SSG1752JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305893	SSG1752JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305893	SSG1752JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305893	SSG1752JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS305893	SSG1752JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS305993	SSG1753JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS305993	SSG1753JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS305993	SSG1753JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS305993	SSG1753JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS305993	SSG1753JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS305993	SSG1753JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS305993	SSG1753JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS305993	SSG1753JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305993	SSG1753JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS305993	SSG1753JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS305993	SSG1753JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS305993	SSG1753JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS305993	SSG1753JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS305993	SSG1753JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS305993	SSG1753JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS305993	SSG1753JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS305993	SSG1753JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS305993	SSG1753JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305993	SSG1753JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS305993	SSG1753JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS305993	SSG1753JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305993	SSG1753JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS305993	SSG1753JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305993	SSG1753JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS305993	SSG1753JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS305993	SSG1753JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS305993	SSG1753JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306093	SSG1754JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306093	SSG1754JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306093	SSG1754JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306093	SSG1754JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306093	SSG1754JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306093	SSG1754JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306093	SSG1754JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306093	SSG1754JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306093	SSG1754JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306093	SSG1754JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306093	SSG1754JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306093	SSG1754JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306093	SSG1754JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306093	SSG1754JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306093	SSG1754JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS306093	SSG1754JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS306093	SSG1754JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS306093	SSG1754JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306093	SSG1754JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS306093	SSG1754JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS306093	SSG1754JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306093	SSG1754JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306093	SSG1754JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306093	SSG1754JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306093	SSG1754JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306093	SSG1754JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306093	SSG1754JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306193	SSG1755JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306193	SSG1755JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306193	SSG1755JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306193	SSG1755JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306193	SSG1755JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306193	SSG1755JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306193	SSG1755JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306193	SSG1755JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306193	SSG1755JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.2						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS306193	SSG1755JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306193	SSG1755JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306193	SSG1755JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306193	SSG1755JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306193	SSG1755JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306193	SSG1755JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306193	SSG1755JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306193	SSG1755JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306193	SSG1755JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306193	SSG1755JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306193	SSG1755JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306193	SSG1755JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306193	SSG1755JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS306193	SSG1755JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306193	SSG1755JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306193	SSG1755JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306193	SSG1755JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS306193	SSG1755JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306193	SSG1755JE	TRADS	GROSS ALPHA	4.200 mg/kg	4.000 mg/kg	0.200 mg/kg
SS306193	SSG1755JE	TRADS	PLUTONIUM-239/240	0.042 mg/kg	0.030 mg/kg	0.012 mg/kg
SS306293	SSG1756JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306293	SSG1756JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306293	SSG1756JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306293	SSG1756JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306293	SSG1756JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306293	SSG1756JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306293	SSG1756JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306293	SSG1756JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306293	SSG1756JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306293	SSG1756JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306293	SSG1756JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306293	SSG1756JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306293	SSG1756JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306293	SSG1756JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306293	SSG1756JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306293	SSG1756JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306293	SSG1756JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306293	SSG1756JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306293	SSG1756JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306293	SSG1756JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306293	SSG1756JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306293	SSG1756JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306293	SSG1756JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306293	SSG1756JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306293	SSG1756JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306293	SSG1756JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS306293	SSG1756JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS306393	SSG1757JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS306393	SSG1757JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS306393	SSG1757JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306393	SSG1757JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306393	SSG1757JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306393	SSG1757JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306393	SSG1757JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306393	SSG1757JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306393	SSG1757JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306393	SSG1757JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306393	SSG1757JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306393	SSG1757JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306393	SSG1757JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306393	SSG1757JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306393	SSG1757JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306393	SSG1757JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306393	SSG1757JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306393	SSG1757JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306393	SSG1757JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306393	SSG1757JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306393	SSG1757JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306393	SSG1757JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306393	SSG1757JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306393	SSG1757JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306393	SSG1757JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306393	SSG1757JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306393	SSG1757JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.2						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS306493	SSG1758JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306493	SSG1758JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306493	SSG1758JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306493	SSG1758JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306493	SSG1758JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306493	SSG1758JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306493	SSG1758JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS306493	SSG1758JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306493	SSG1758JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306493	SSG1758JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306493	SSG1758JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306493	SSG1758JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306493	SSG1758JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306493	SSG1758JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306493	SSG1758JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306493	SSG1758JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306493	SSG1758JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306493	SSG1758JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306493	SSG1758JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306493	SSG1758JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306493	SSG1758JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306493	SSG1758JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306493	SSG1758JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306493	SSG1758JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306493	SSG1758JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306493	SSG1758JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306493	SSG1758JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306593	SSG1759JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306593	SSG1759JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306593	SSG1759JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306593	SSG1759JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306593	SSG1759JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306593	SSG1759JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306593	SSG1759JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306593	SSG1759JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306593	SSG1759JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306593	SSG1759JE	SMETCLP	BERYLLIUM	5.000 pCi/L	1.000 pCi/L	4.000 pCi/L
SS306593	SSG1759JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS306593	SSG1759JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS306593	SSG1759JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306593	SSG1759JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS306593	SSG1759JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS306593	SSG1759JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS306593	SSG1759JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306593	SSG1759JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306593	SSG1759JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306593	SSG1759JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306593	SSG1759JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306593	SSG1759JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306593	SSG1759JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306593	SSG1759JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306593	SSG1759JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306593	SSG1759JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306593	SSG1759JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306593	SSG1759JE	TRADS	GROSS ALPHA	4.140 mg/kg	4.000 mg/kg	0.140 mg/kg
SS306693	SSG1760JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306693	SSG1760JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306693	SSG1760JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306693	SSG1760JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306693	SSG1760JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306693	SSG1760JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306693	SSG1760JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306693	SSG1760JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306693	SSG1760JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306693	SSG1760JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306693	SSG1760JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306693	SSG1760JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306693	SSG1760JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306693	SSG1760JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306693	SSG1760JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306693	SSG1760JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS306693	SSG1760JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS306693	SSG1760JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306693	SSG1760JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.2						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS306693	SSG1760JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS306693	SSG1760JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306693	SSG1760JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306693	SSG1760JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306693	SSG1760JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306693	SSG1760JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306693	SSG1760JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306693	SSG1760JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.3						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS307893	SSG1772JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307893	SSG1772JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307893	SSG1772JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307893	SSG1772JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307893	SSG1772JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307893	SSG1772JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307893	SSG1772JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307893	SSG1772JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307893	SSG1772JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307893	SSG1772JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307893	SSG1772JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307893	SSG1772JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307893	SSG1772JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307893	SSG1772JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307893	SSG1772JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307893	SSG1772JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307893	SSG1772JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307893	SSG1772JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307893	SSG1772JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307893	SSG1772JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307893	SSG1772JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307893	SSG1772JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307893	SSG1772JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307893	SSG1772JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307893	SSG1772JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307893	SSG1772JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307893	SSG1772JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307993	SSG1773JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS307993	SSG1773JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	20 µg/kg
SS307993	SSG1773JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307993	SSG1773JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307993	SSG1773JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307993	SSG1773JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307993	SSG1773JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307993	SSG1773JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307993	SSG1773JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307993	SSG1773JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307993	SSG1773JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307993	SSG1773JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307993	SSG1773JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307993	SSG1773JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307993	SSG1773JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307993	SSG1773JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307993	SSG1773JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307993	SSG1773JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307993	SSG1773JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307993	SSG1773JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307993	SSG1773JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307993	SSG1773JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307993	SSG1773JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307993	SSG1773JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307993	SSG1773JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307993	SSG1773JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307993	SSG1773JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308093	SSG1774JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308093	SSG1774JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308093	SSG1774JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308093	SSG1774JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308093	SSG1774JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308093	SSG1774JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308093	SSG1774JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS308093	SSG1774JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308093	SSG1774JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308093	SSG1774JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS308093	SSG1774JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS308093	SSG1774JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS308093	SSG1774JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308093	SSG1774JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308093	SSG1774JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308093	SSG1774JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308093	SSG1774JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308093	SSG1774JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308093	SSG1774JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308093	SSG1774JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308093	SSG1774JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308093	SSG1774JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.3						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS308093	SSG1774JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308093	SSG1774JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308093	SSG1774JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308093	SSG1774JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308093	SSG1774JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308193	SSG1775JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308193	SSG1775JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308193	SSG1775JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308193	SSG1775JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308193	SSG1775JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308193	SSG1775JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308193	SSG1775JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308193	SSG1775JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308193	SSG1775JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308193	SSG1775JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308193	SSG1775JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308193	SSG1775JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308193	SSG1775JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308193	SSG1775JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308193	SSG1775JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS308193	SSG1775JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS308193	SSG1775JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS308193	SSG1775JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308193	SSG1775JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308193	SSG1775JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308193	SSG1775JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308193	SSG1775JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308193	SSG1775JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308193	SSG1775JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308193	SSG1775JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308193	SSG1775JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308193	SSG1775JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308293	SSG1776JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308293	SSG1776JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308293	SSG1776JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308293	SSG1776JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308293	SSG1776JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308293	SSG1776JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308293	SSG1776JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308293	SSG1776JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308293	SSG1776JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308293	SSG1776JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308293	SSG1776JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308293	SSG1776JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308293	SSG1776JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308293	SSG1776JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308293	SSG1776JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308293	SSG1776JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308293	SSG1776JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308293	SSG1776JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308293	SSG1776JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS308293	SSG1776JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS308293	SSG1776JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308293	SSG1776JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS308293	SSG1776JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308293	SSG1776JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308293	SSG1776JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308293	SSG1776JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308293	SSG1776JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308393	SSG1777JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308393	SSG1777JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308393	SSG1777JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308393	SSG1777JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308393	SSG1777JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308393	SSG1777JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308393	SSG1777JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308393	SSG1777JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308393	SSG1777JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308393	SSG1777JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308393	SSG1777JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308393	SSG1777JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308393	SSG1777JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308393	SSG1777JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308393	SSG1777JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308393	SSG1777JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308393	SSG1777JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.3						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS308393	SSG1777JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308393	SSG1777JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308393	SSG1777JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308393	SSG1777JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308393	SSG1777JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308393	SSG1777JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308393	SSG1777JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308393	SSG1777JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308393	SSG1777JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308393	SSG1777JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS308493	SSG1778JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS308493	SSG1778JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS308493	SSG1778JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308493	SSG1778JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308493	SSG1778JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308493	SSG1778JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308493	SSG1778JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308493	SSG1778JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308493	SSG1778JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308493	SSG1778JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308493	SSG1778JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308493	SSG1778JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308493	SSG1778JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308493	SSG1778JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308493	SSG1778JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308493	SSG1778JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308493	SSG1778JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308493	SSG1778JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308493	SSG1778JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308493	SSG1778JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308493	SSG1778JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308493	SSG1778JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308493	SSG1778JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308493	SSG1778JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308493	SSG1778JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308493	SSG1778JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308493	SSG1778JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308593	SSG1779JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308593	SSG1779JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308593	SSG1779JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308593	SSG1779JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308593	SSG1779JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308593	SSG1779JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308593	SSG1779JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS308593	SSG1779JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308593	SSG1779JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308593	SSG1779JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308593	SSG1779JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308593	SSG1779JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308593	SSG1779JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308593	SSG1779JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308593	SSG1779JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308593	SSG1779JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308593	SSG1779JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308593	SSG1779JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308593	SSG1779JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308593	SSG1779JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308593	SSG1779JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308593	SSG1779JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308593	SSG1779JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308593	SSG1779JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308593	SSG1779JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308593	SSG1779JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308593	SSG1779JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308593	SSG1779JE	TRADS	PLUTONIUM-239/240	0.132 mg/kg	0.030 mg/kg	0.102 mg/kg
SS308693	SSG1780JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308693	SSG1780JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308693	SSG1780JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308693	SSG1780JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308693	SSG1780JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308693	SSG1780JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308693	SSG1780JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308693	SSG1780JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308693	SSG1780JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS308693	SSG1780JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS308693	SSG1780JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 117.3						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS308693	SSG1780JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS308693	SSG1780JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308693	SSG1780JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308693	SSG1780JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308693	SSG1780JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308693	SSG1780JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308693	SSG1780JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308693	SSG1780JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308693	SSG1780JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308693	SSG1780JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308693	SSG1780JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308693	SSG1780JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308693	SSG1780JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308693	SSG1780JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308693	SSG1780JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308693	SSG1780JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308793	SSG1781JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308793	SSG1781JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308793	SSG1781JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308793	SSG1781JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308793	SSG1781JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308793	SSG1781JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308793	SSG1781JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308793	SSG1781JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308793	SSG1781JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308793	SSG1781JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308793	SSG1781JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308793	SSG1781JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308793	SSG1781JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308793	SSG1781JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308793	SSG1781JE	SMETCLP	COPPER	25.000 pCi/L	5.000 pCi/L	20.000 pCi/L
SS308793	SSG1781JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS308793	SSG1781JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS308793	SSG1781JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308793	SSG1781JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS308793	SSG1781JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS308793	SSG1781JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308793	SSG1781JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS308793	SSG1781JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308793	SSG1781JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308793	SSG1781JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308793	SSG1781JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308793	SSG1781JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS308793	SSG1781JE	TRADS	PLUTONIUM-239/240	0.048 mg/kg	0.030 mg/kg	0.018 mg/kg
SS308893	SSG1782JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS308893	SSG1782JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308893	SSG1782JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308893	SSG1782JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308893	SSG1782JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308893	SSG1782JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308893	SSG1782JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS308893	SSG1782JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308893	SSG1782JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS308893	SSG1782JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308893	SSG1782JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS308893	SSG1782JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS308893	SSG1782JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS308893	SSG1782JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS308893	SSG1782JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS308893	SSG1782JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS308893	SSG1782JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS308893	SSG1782JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS308893	SSG1782JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS308893	SSG1782JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS308893	SSG1782JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308893	SSG1782JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS308893	SSG1782JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308893	SSG1782JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS308893	SSG1782JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS308893	SSG1782JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS308893	SSG1782JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 128								
Sample Location	Sample ID Number	Analytical Parameter	Analyte		Real Sample Detection Limits	Required Detection Limits	Deviation	
NONE								*mg/kg*

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 134N						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS310393	SSG1798JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS310393	SSG1798JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310393	SSG1798JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310393	SSG1798JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310393	SSG1798JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310393	SSG1798JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310393	SSG1798JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS310393	SSG1798JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310393	SSG1798JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS310393	SSG1798JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310393	SSG1798JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS310393	SSG1798JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS310393	SSG1798JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310393	SSG1798JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310393	SSG1798JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS310393	SSG1798JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS310393	SSG1798JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS310393	SSG1798JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310393	SSG1798JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS310393	SSG1798JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS310393	SSG1798JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310393	SSG1798JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS310393	SSG1798JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310393	SSG1798JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS310393	SSG1798JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS310393	SSG1798JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS310393	SSG1798JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS310393	SSG1798JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310393	SSG1798JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310393	SSG1798JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS310393	SSG1798JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS310393	SSG1798JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS310393	SSG1798JE	VOA8240	VINYL ACETATE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 134S						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS302593	SSG1718JE	TRADS	PLUTONIUM-239/240	0.040 mg/kg	0.030 mg/kg	0.010 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 148						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS306893	SSG1761JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306893	SSG1761JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306893	SSG1761JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306893	SSG1761JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306893	SSG1761JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306893	SSG1761JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306893	SSG1761JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306893	SSG1761JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306893	SSG1761JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306893	SSG1761JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306893	SSG1761JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306893	SSG1761JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306893	SSG1761JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306893	SSG1761JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306893	SSG1761JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306893	SSG1761JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306893	SSG1761JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306893	SSG1761JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306893	SSG1761JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306893	SSG1761JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306893	SSG1761JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306893	SSG1761JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306893	SSG1761JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306893	SSG1761JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306893	SSG1761JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306893	SSG1761JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306893	SSG1761JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS306993	SSG1762JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS306993	SSG1762JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	20 µg/kg
SS306993	SSG1762JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306993	SSG1762JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306993	SSG1762JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306993	SSG1762JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS306993	SSG1762JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306993	SSG1762JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306993	SSG1762JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306993	SSG1762JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306993	SSG1762JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306993	SSG1762JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306993	SSG1762JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306993	SSG1762JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306993	SSG1762JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306993	SSG1762JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306993	SSG1762JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306993	SSG1762JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306993	SSG1762JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306993	SSG1762JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306993	SSG1762JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306993	SSG1762JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS306993	SSG1762JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306993	SSG1762JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306993	SSG1762JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306993	SSG1762JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306993	SSG1762JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307093	SSG1763JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307093	SSG1763JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307093	SSG1763JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307093	SSG1763JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307093	SSG1763JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307093	SSG1763JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307093	SSG1763JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS307093	SSG1763JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307093	SSG1763JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307093	SSG1763JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS307093	SSG1763JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS307093	SSG1763JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS307093	SSG1763JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307093	SSG1763JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307093	SSG1763JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307093	SSG1763JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307093	SSG1763JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307093	SSG1763JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307093	SSG1763JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307093	SSG1763JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307093	SSG1763JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307093	SSG1763JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 148						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS307093	SSG1763JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307093	SSG1763JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307093	SSG1763JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307093	SSG1763JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307093	SSG1763JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307193	SSG1764JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307193	SSG1764JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307193	SSG1764JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307193	SSG1764JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307193	SSG1764JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307193	SSG1764JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307193	SSG1764JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307193	SSG1764JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307193	SSG1764JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307193	SSG1764JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307193	SSG1764JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307193	SSG1764JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307193	SSG1764JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS307193	SSG1764JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS307193	SSG1764JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS307193	SSG1764JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS307193	SSG1764JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS307193	SSG1764JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS307193	SSG1764JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307193	SSG1764JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307193	SSG1764JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307193	SSG1764JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307193	SSG1764JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307193	SSG1764JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307193	SSG1764JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307193	SSG1764JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307293	SSG1765JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307293	SSG1765JE	METADD	LITHIUM	100.000 mg/kg	20:000 mg/kg	80.000 mg/kg
SS307293	SSG1765JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307293	SSG1765JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307293	SSG1765JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307293	SSG1765JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307293	SSG1765JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307293	SSG1765JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307293	SSG1765JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307293	SSG1765JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307293	SSG1765JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307293	SSG1765JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307293	SSG1765JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307293	SSG1765JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307293	SSG1765JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307293	SSG1765JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307293	SSG1765JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307293	SSG1765JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307293	SSG1765JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307293	SSG1765JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS307293	SSG1765JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS307293	SSG1765JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS307293	SSG1765JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307293	SSG1765JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS307293	SSG1765JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307293	SSG1765JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307293	SSG1765JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307293	SSG1765JE	TRADS	PLUTONIUM-239/240	0.062 mg/kg	0.030 mg/kg	0.032 mg/kg
SS307393	SSG1766JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307393	SSG1766JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307393	SSG1766JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307393	SSG1766JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307393	SSG1766JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307393	SSG1766JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307393	SSG1766JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307393	SSG1766JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307393	SSG1766JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307393	SSG1766JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307393	SSG1766JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307393	SSG1766JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307393	SSG1766JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307393	SSG1766JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307393	SSG1766JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307393	SSG1766JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307393	SSG1766JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 148						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS307393	SSG1766JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307393	SSG1766JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307393	SSG1766JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307393	SSG1766JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307393	SSG1766JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307393	SSG1766JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307393	SSG1766JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307393	SSG1766JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307393	SSG1766JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS307393	SSG1766JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS307493	SSG1767JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS307493	SSG1767JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS307493	SSG1767JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307493	SSG1767JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307493	SSG1767JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307493	SSG1767JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307493	SSG1767JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307493	SSG1767JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307493	SSG1767JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307493	SSG1767JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307493	SSG1767JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307493	SSG1767JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307493	SSG1767JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307493	SSG1767JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307493	SSG1767JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307493	SSG1767JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307493	SSG1767JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307493	SSG1767JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307493	SSG1767JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307493	SSG1767JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307493	SSG1767JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307493	SSG1767JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307493	SSG1767JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307493	SSG1767JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307493	SSG1767JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307493	SSG1767JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307493	SSG1767JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307593	SSG1768JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307593	SSG1768JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307593	SSG1768JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307593	SSG1768JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307593	SSG1768JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307593	SSG1768JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307593	SSG1768JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS307593	SSG1768JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307593	SSG1768JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS307593	SSG1768JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307593	SSG1768JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307593	SSG1768JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307593	SSG1768JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307593	SSG1768JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307593	SSG1768JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307593	SSG1768JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307593	SSG1768JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307593	SSG1768JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307593	SSG1768JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307593	SSG1768JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307593	SSG1768JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307593	SSG1768JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307593	SSG1768JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307593	SSG1768JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307593	SSG1768JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307593	SSG1768JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307593	SSG1768JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307693	SSG1769JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307693	SSG1769JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307693	SSG1769JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307693	SSG1769JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307693	SSG1769JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307693	SSG1769JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307693	SSG1769JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307693	SSG1769JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307693	SSG1769JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307693	SSG1769JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS307693	SSG1769JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS307693	SSG1769JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 148						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS307693	SSG1769JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS307693	SSG1769JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS307693	SSG1769JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS307693	SSG1769JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307693	SSG1769JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS307693	SSG1769JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307693	SSG1769JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS307693	SSG1769JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS307693	SSG1769JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307693	SSG1769JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS307693	SSG1769JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307693	SSG1769JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307693	SSG1769JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307693	SSG1769JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307693	SSG1769JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307793	SSG1770JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS307793	SSG1770JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS307793	SSG1770JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307793	SSG1770JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307793	SSG1770JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307793	SSG1770JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307793	SSG1770JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS307793	SSG1770JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307793	SSG1770JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS307793	SSG1770JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307793	SSG1770JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS307793	SSG1770JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS307793	SSG1770JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307793	SSG1770JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307793	SSG1770JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS307793	SSG1770JE	SMETCLP	IRON	100.000 pCi/L	20.000 pCi/L	80.000 pCi/L
SS307793	SSG1770JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS307793	SSG1770JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS307793	SSG1770JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS307793	SSG1770JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS307793	SSG1770JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS307793	SSG1770JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS307793	SSG1770JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307793	SSG1770JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS307793	SSG1770JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS307793	SSG1770JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS307793	SSG1770JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS307793	SSG1770JE	TRADS	PLUTONIUM-239/240	0.112 mg/kg	0.030 mg/kg	0.082 mg/kg
SS306793	SSG1771JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS306793	SSG1771JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306793	SSG1771JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306793	SSG1771JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306793	SSG1771JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306793	SSG1771JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306793	SSG1771JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS306793	SSG1771JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306793	SSG1771JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS306793	SSG1771JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306793	SSG1771JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS306793	SSG1771JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS306793	SSG1771JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS306793	SSG1771JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS306793	SSG1771JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS306793	SSG1771JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS306793	SSG1771JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS306793	SSG1771JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306793	SSG1771JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS306793	SSG1771JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS306793	SSG1771JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS306793	SSG1771JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS306793	SSG1771JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306793	SSG1771JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS306793	SSG1771JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS306793	SSG1771JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS306793	SSG1771JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS307193	SSG1764JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 157.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS300393	SSG1696JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300393	SSG1696JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300393	SSG1696JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300393	SSG1696JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300393	SSG1696JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300393	SSG1696JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300393	SSG1696JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300393	SSG1696JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300393	SSG1696JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300393	SSG1696JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300393	SSG1696JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300393	SSG1696JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300393	SSG1696JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300393	SSG1696JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300393	SSG1696JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300393	SSG1696JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300393	SSG1696JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300393	SSG1696JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300393	SSG1696JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300393	SSG1696JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300393	SSG1696JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300393	SSG1696JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300393	SSG1696JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300393	SSG1696JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300393	SSG1696JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300393	SSG1696JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300393	SSG1696JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300493	SSG1697JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS300493	SSG1697JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	20 µg/kg
SS300493	SSG1697JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300493	SSG1697JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300493	SSG1697JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300493	SSG1697JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300493	SSG1697JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300493	SSG1697JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300493	SSG1697JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300493	SSG1697JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300493	SSG1697JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300493	SSG1697JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300493	SSG1697JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300493	SSG1697JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300493	SSG1697JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300493	SSG1697JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300493	SSG1697JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300493	SSG1697JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300493	SSG1697JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300493	SSG1697JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300493	SSG1697JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300493	SSG1697JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300493	SSG1697JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300493	SSG1697JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300493	SSG1697JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300493	SSG1697JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300493	SSG1697JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300593	SSG1698JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300593	SSG1698JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300593	SSG1698JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300593	SSG1698JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300593	SSG1698JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300593	SSG1698JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300593	SSG1698JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS300593	SSG1698JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS300593	SSG1698JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300593	SSG1698JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS300593	SSG1698JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS300593	SSG1698JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS300593	SSG1698JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300593	SSG1698JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300593	SSG1698JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300593	SSG1698JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300593	SSG1698JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300593	SSG1698JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300593	SSG1698JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300593	SSG1698JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300593	SSG1698JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300593	SSG1698JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 157.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS300593	SSG1698JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300593	SSG1698JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300593	SSG1698JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300593	SSG1698JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300593	SSG1698JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300693	SSG1699JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300693	SSG1699JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300693	SSG1699JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300693	SSG1699JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300693	SSG1699JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300693	SSG1699JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300693	SSG1699JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300693	SSG1699JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300693	SSG1699JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300693	SSG1699JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300693	SSG1699JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300693	SSG1699JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300693	SSG1699JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS300693	SSG1699JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS300693	SSG1699JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS300693	SSG1699JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS300693	SSG1699JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS300693	SSG1699JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS300693	SSG1699JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300693	SSG1699JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300693	SSG1699JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300693	SSG1699JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300693	SSG1699JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300693	SSG1699JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300693	SSG1699JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300693	SSG1699JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300693	SSG1699JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300793	SSG1700JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300793	SSG1700JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300793	SSG1700JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300793	SSG1700JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300793	SSG1700JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300793	SSG1700JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300793	SSG1700JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300793	SSG1700JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300793	SSG1700JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300793	SSG1700JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300793	SSG1700JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300793	SSG1700JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300793	SSG1700JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300793	SSG1700JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300793	SSG1700JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300793	SSG1700JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300793	SSG1700JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300793	SSG1700JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300793	SSG1700JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS300793	SSG1700JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS300793	SSG1700JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS300793	SSG1700JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS300793	SSG1700JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS300793	SSG1700JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS300793	SSG1700JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300793	SSG1700JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300793	SSG1700JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300893	SSG1701JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS300893	SSG1701JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300893	SSG1701JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300893	SSG1701JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300893	SSG1701JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300893	SSG1701JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300893	SSG1701JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300893	SSG1701JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300893	SSG1701JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300893	SSG1701JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300893	SSG1701JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300893	SSG1701JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300893	SSG1701JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300893	SSG1701JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300893	SSG1701JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300893	SSG1701JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300893	SSG1701JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 157.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS300893	SSG1701JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300893	SSG1701JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300893	SSG1701JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300893	SSG1701JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300893	SSG1701JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300893	SSG1701JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300893	SSG1701JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300893	SSG1701JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS300893	SSG1701JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS300893	SSG1701JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS300993	SSG1702JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS300993	SSG1702JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS300993	SSG1702JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS300993	SSG1702JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300993	SSG1702JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300993	SSG1702JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300993	SSG1702JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS300993	SSG1702JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300993	SSG1702JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS300993	SSG1702JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300993	SSG1702JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS300993	SSG1702JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS300993	SSG1702JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300993	SSG1702JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300993	SSG1702JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS300993	SSG1702JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS300993	SSG1702JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS300993	SSG1702JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300993	SSG1702JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS300993	SSG1702JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS300993	SSG1702JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300993	SSG1702JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS300993	SSG1702JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300993	SSG1702JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS300993	SSG1702JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS300993	SSG1702JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS300993	SSG1702JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS300993	SSG1702JE	TRADS	GROSS ALPHA	4.100 mg/kg	4.000 mg/kg	0.100 mg/kg
SS301093	SSG1703JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS301093	SSG1703JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301093	SSG1703JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS301093	SSG1703JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS301093	SSG1703JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS301093	SSG1703JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS301093	SSG1703JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS301093	SSG1703JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS301093	SSG1703JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301093	SSG1703JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301093	SSG1703JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301093	SSG1703JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS301093	SSG1703JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301093	SSG1703JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301093	SSG1703JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS301093	SSG1703JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301093	SSG1703JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS301093	SSG1703JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301093	SSG1703JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS301093	SSG1703JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS301093	SSG1703JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301093	SSG1703JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS301093	SSG1703JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301093	SSG1703JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301093	SSG1703JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301093	SSG1703JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301093	SSG1703JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS301193	SSG1704JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS301193	SSG1704JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301193	SSG1704JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301193	SSG1704JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301193	SSG1704JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301193	SSG1704JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301193	SSG1704JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS301193	SSG1704JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301193	SSG1704JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS301193	SSG1704JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS301193	SSG1704JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 157.1						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS301193	SSG1704JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS301193	SSG1704JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS301193	SSG1704JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS301193	SSG1704JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS301193	SSG1704JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301193	SSG1704JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS301193	SSG1704JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301193	SSG1704JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS301193	SSG1704JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS301193	SSG1704JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301193	SSG1704JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS301193	SSG1704JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301193	SSG1704JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301193	SSG1704JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301193	SSG1704JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301193	SSG1704JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS301293	SSG1705JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS301293	SSG1705JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301293	SSG1705JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301293	SSG1705JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301293	SSG1705JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301293	SSG1705JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301293	SSG1705JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS301293	SSG1705JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301293	SSG1705JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301293	SSG1705JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301293	SSG1705JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301293	SSG1705JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS301293	SSG1705JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301293	SSG1705JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301293	SSG1705JE	SMETCLP	COPPER	25.000 pCi/L	5.000 pCi/L	20.000 pCi/L
SS301293	SSG1705JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS301293	SSG1705JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS301293	SSG1705JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS301293	SSG1705JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS301293	SSG1705JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS301293	SSG1705JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS301293	SSG1705JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS301293	SSG1705JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301293	SSG1705JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301293	SSG1705JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301293	SSG1705JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301293	SSG1705JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS301293	SSG1705JE	TRADS	GROSS ALPHA	4.080 mg/kg	4.000 mg/kg	0.080 mg/kg
SS301393	SSG1706JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS301393	SSG1706JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301393	SSG1706JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301393	SSG1706JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301393	SSG1706JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301393	SSG1706JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301393	SSG1706JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS301393	SSG1706JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301393	SSG1706JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS301393	SSG1706JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301393	SSG1706JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS301393	SSG1706JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS301393	SSG1706JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS301393	SSG1706JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS301393	SSG1706JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS301393	SSG1706JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS301393	SSG1706JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS301393	SSG1706JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS301393	SSG1706JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS301393	SSG1706JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS301393	SSG1706JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS301393	SSG1706JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS301393	SSG1706JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS301393	SSG1706JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS301393	SSG1706JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS301393	SSG1706JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS301393	SSG1706JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 158						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS303693	SSG1729JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS303693	SSG1729JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303693	SSG1729JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303693	SSG1729JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303693	SSG1729JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303693	SSG1729JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303693	SSG1729JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS303693	SSG1729JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303693	SSG1729JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303693	SSG1729JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303693	SSG1729JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303693	SSG1729JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS303693	SSG1729JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303693	SSG1729JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303693	SSG1729JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS303693	SSG1729JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303693	SSG1729JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS303693	SSG1729JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303693	SSG1729JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS303693	SSG1729JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS303693	SSG1729JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303693	SSG1729JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS303693	SSG1729JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303693	SSG1729JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303693	SSG1729JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303693	SSG1729JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303693	SSG1729JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS303793	SSG1730JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS303793	SSG1730JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	20 µg/kg
SS303793	SSG1730JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS303793	SSG1730JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS303793	SSG1730JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS303793	SSG1730JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS303793	SSG1730JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS303793	SSG1730JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303793	SSG1730JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303793	SSG1730JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303793	SSG1730JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303793	SSG1730JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS303793	SSG1730JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303793	SSG1730JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303793	SSG1730JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS303793	SSG1730JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303793	SSG1730JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS303793	SSG1730JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303793	SSG1730JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS303793	SSG1730JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS303793	SSG1730JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303793	SSG1730JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS303793	SSG1730JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303793	SSG1730JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303793	SSG1730JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303793	SSG1730JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303793	SSG1730JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS303893	SSG1731JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS303893	SSG1731JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303893	SSG1731JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303893	SSG1731JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303893	SSG1731JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303893	SSG1731JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303893	SSG1731JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS303893	SSG1731JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS303893	SSG1731JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS303893	SSG1731JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS303893	SSG1731JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS303893	SSG1731JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS303893	SSG1731JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303893	SSG1731JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303893	SSG1731JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS303893	SSG1731JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303893	SSG1731JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS303893	SSG1731JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303893	SSG1731JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS303893	SSG1731JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS303893	SSG1731JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303893	SSG1731JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 158						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS303893	SSG1731JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303893	SSG1731JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303893	SSG1731JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303893	SSG1731JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303893	SSG1731JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS303993	SSG1732JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS303993	SSG1732JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS303993	SSG1732JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303993	SSG1732JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303993	SSG1732JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303993	SSG1732JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303993	SSG1732JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS303993	SSG1732JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303993	SSG1732JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS303993	SSG1732JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303993	SSG1732JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS303993	SSG1732JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS303993	SSG1732JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS303993	SSG1732JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS303993	SSG1732JE	SMETCLP	COPPER	25.000 µg/kg	5.000 µg/kg	20.000 µg/kg
SS303993	SSG1732JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS303993	SSG1732JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS303993	SSG1732JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS303993	SSG1732JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS303993	SSG1732JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS303993	SSG1732JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303993	SSG1732JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS303993	SSG1732JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303993	SSG1732JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS303993	SSG1732JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS303993	SSG1732JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS303993	SSG1732JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS303993	SSG1732JE	TRADS	GROSS ALPHA	4.140 mg/kg	4.000 mg/kg	0.140 mg/kg
SS304093	SSG1733JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304093	SSG1733JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304093	SSG1733JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304093	SSG1733JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304093	SSG1733JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304093	SSG1733JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304093	SSG1733JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304093	SSG1733JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304093	SSG1733JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304093	SSG1733JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304093	SSG1733JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304093	SSG1733JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304093	SSG1733JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304093	SSG1733JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304093	SSG1733JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304093	SSG1733JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304093	SSG1733JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304093	SSG1733JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304093	SSG1733JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS304093	SSG1733JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS304093	SSG1733JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304093	SSG1733JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS304093	SSG1733JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304093	SSG1733JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304093	SSG1733JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304093	SSG1733JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304093	SSG1733JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS304193	SSG1734JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304193	SSG1734JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304193	SSG1734JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304193	SSG1734JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304193	SSG1734JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304193	SSG1734JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304193	SSG1734JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304193	SSG1734JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304193	SSG1734JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304193	SSG1734JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304193	SSG1734JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304193	SSG1734JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304193	SSG1734JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304193	SSG1734JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304193	SSG1734JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304193	SSG1734JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 158						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS304193	SSG1734JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304193	SSG1734JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304193	SSG1734JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS304193	SSG1734JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS304193	SSG1734JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304193	SSG1734JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS304193	SSG1734JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304193	SSG1734JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304193	SSG1734JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304193	SSG1734JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS304193	SSG1734JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS304293	SSG1735JE	METADD	CESIUM	1000.000 µg/kg	200.000 µg/kg	800.000 µg/kg
SS304293	SSG1735JE	METADD	LITHIUM	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS304293	SSG1735JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304293	SSG1735JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304293	SSG1735JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304293	SSG1735JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304293	SSG1735JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304293	SSG1735JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304293	SSG1735JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304293	SSG1735JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304293	SSG1735JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304293	SSG1735JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304293	SSG1735JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304293	SSG1735JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304293	SSG1735JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304293	SSG1735JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304293	SSG1735JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304293	SSG1735JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304293	SSG1735JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS304293	SSG1735JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS304293	SSG1735JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304293	SSG1735JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS304293	SSG1735JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304293	SSG1735JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304293	SSG1735JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304293	SSG1735JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304293	SSG1735JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS304393	SSG1736JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304393	SSG1736JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304393	SSG1736JE	METADD	MOLYBDENUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS304393	SSG1736JE	METADD	STRONTIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS304393	SSG1736JE	METADD	TIN	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS304393	SSG1736JE	SMETCLP	ALUMINUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS304393	SSG1736JE	SMETCLP	ANTIMONY	60.000 µg/kg	12.000 µg/kg	48.000 µg/kg
SS304393	SSG1736JE	SMETCLP	ARSENIC	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304393	SSG1736JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304393	SSG1736JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304393	SSG1736JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304393	SSG1736JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304393	SSG1736JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304393	SSG1736JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304393	SSG1736JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304393	SSG1736JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304393	SSG1736JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304393	SSG1736JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304393	SSG1736JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS304393	SSG1736JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS304393	SSG1736JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304393	SSG1736JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS304393	SSG1736JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304393	SSG1736JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304393	SSG1736JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304393	SSG1736JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304393	SSG1736JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS304493	SSG1737JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304493	SSG1737JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304493	SSG1737JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304493	SSG1737JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304493	SSG1737JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304493	SSG1737JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304493	SSG1737JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304493	SSG1737JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304493	SSG1737JE	SMETCLP	BARIUM	200.000 µg/kg	40.000 µg/kg	160.000 µg/kg
SS304493	SSG1737JE	SMETCLP	BERYLLIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg
SS304493	SSG1737JE	SMETCLP	CADMIUM	5.000 µg/kg	1.000 µg/kg	4.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 158						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS304493	SSG1737JE	SMETCLP	CALCIUM	5000.000 µg/kg	1000.000 µg/kg	4000.000 µg/kg
SS304493	SSG1737JE	SMETCLP	CHROMIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304493	SSG1737JE	SMETCLP	COBALT	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS304493	SSG1737JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304493	SSG1737JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304493	SSG1737JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304493	SSG1737JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304493	SSG1737JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS304493	SSG1737JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS304493	SSG1737JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304493	SSG1737JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS304493	SSG1737JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304493	SSG1737JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304493	SSG1737JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304493	SSG1737JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304493	SSG1737JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS304593	SSG1738JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304593	SSG1738JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304593	SSG1738JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304593	SSG1738JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304593	SSG1738JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304593	SSG1738JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304593	SSG1738JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304593	SSG1738JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304593	SSG1738JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304593	SSG1738JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304593	SSG1738JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304593	SSG1738JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304593	SSG1738JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304593	SSG1738JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304593	SSG1738JE	SMETCLP	COPPER	25.000 pCi/L	5.000 pCi/L	20.000 pCi/L
SS304593	SSG1738JE	SMETCLP	IRON	100.000 µg/kg	20.000 µg/kg	80.000 µg/kg
SS304593	SSG1738JE	SMETCLP	LEAD	3.000 µg/kg	1.000 µg/kg	2.000 µg/kg
SS304593	SSG1738JE	SMETCLP	MAGNESIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304593	SSG1738JE	SMETCLP	MANGANESE	15.000 µg/kg	3.000 µg/kg	12.000 µg/kg
SS304593	SSG1738JE	SMETCLP	NICKEL	40.000 µg/kg	8.000 µg/kg	32.000 µg/kg
SS304593	SSG1738JE	SMETCLP	POTASSIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304593	SSG1738JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS304593	SSG1738JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304593	SSG1738JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304593	SSG1738JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304593	SSG1738JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304593	SSG1738JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS304693	SSG1739JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS304693	SSG1739JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304693	SSG1739JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304693	SSG1739JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304693	SSG1739JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304693	SSG1739JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304693	SSG1739JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS304693	SSG1739JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304693	SSG1739JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS304693	SSG1739JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304693	SSG1739JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS304693	SSG1739JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS304693	SSG1739JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS304693	SSG1739JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS304693	SSG1739JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS304693	SSG1739JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS304693	SSG1739JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS304693	SSG1739JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304693	SSG1739JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS304693	SSG1739JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS304693	SSG1739JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS304693	SSG1739JE	SMETCLP	SELENIUM	5.000 µg/kg	0.050 µg/kg	4.950 µg/kg
SS304693	SSG1739JE	SMETCLP	SILVER	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304693	SSG1739JE	SMETCLP	SODIUM	5000.000 µg/kg	2000.000 µg/kg	3000.000 µg/kg
SS304693	SSG1739JE	SMETCLP	THALLIUM	10.000 µg/kg	2.000 µg/kg	8.000 µg/kg
SS304693	SSG1739JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS304693	SSG1739JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 171						
Sample Location	**Sample ID Number**	**Analytical Parameter**	***Analyte***	**Real Sample Detection Limits**	**Required Detection Limits**	**Deviation**
SS302493	SSG1717JE	TRADS	GROSS ALPHA	4.100 mg/kg	4.000 mg/kg	0.100 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 186						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS305293	SSG1745JE	TRADS	PLUTONIUM-239/240	0.034 mg/kg	0.030 mg/kg	0.004 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 197						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS309693	SSG1790JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309693	SSG1790JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309693	SSG1790JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309693	SSG1790JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309693	SSG1790JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309693	SSG1790JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309693	SSG1790JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309693	SSG1790JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309693	SSG1790JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309693	SSG1790JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309693	SSG1790JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309693	SSG1790JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309693	SSG1790JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309693	SSG1790JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309693	SSG1790JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309693	SSG1790JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309693	SSG1790JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309693	SSG1790JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309693	SSG1790JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309693	SSG1790JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309693	SSG1790JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309693	SSG1790JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309693	SSG1790JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309693	SSG1790JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309693	SSG1790JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309693	SSG1790JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309693	SSG1790JE	SMETCLP	ZINC	20.000 mg/kg	4.000 mg/kg	16.000 mg/kg
SS309693	SSG1790JE	TRADS	TRITIUM	500.000 µg/kg	400.000 µg/kg	100.000 µg/kg
SS309693	SSG1790JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	10 µg/kg
SS309693	SSG1790JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309693	SSG1790JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309693	SSG1790JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309693	SSG1790JE	VOA8240	BROMOMETHANE	10.000 µg/kg	5.000 µg/kg	5.000 µg/kg
SS309693	SSG1790JE	VOA8240	VINYL ACETATE	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309793	SSG1791JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309793	SSG1791JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309793	SSG1791JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309793	SSG1791JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309793	SSG1791JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309793	SSG1791JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309793	SSG1791JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309793	SSG1791JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309793	SSG1791JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309793	SSG1791JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309793	SSG1791JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309793	SSG1791JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309793	SSG1791JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309793	SSG1791JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309793	SSG1791JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309793	SSG1791JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309793	SSG1791JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309793	SSG1791JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309793	SSG1791JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309793	SSG1791JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309793	SSG1791JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309793	SSG1791JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309793	SSG1791JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309793	SSG1791JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309793	SSG1791JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309793	SSG1791JE	SMETCLP	VANADIUM	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309793	SSG1791JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS309793	SSG1791JE	TRADS	TRITIUM	600.000 µg/kg	400.000 µg/kg	200.000 µg/kg
SS309793	SSG1791JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309793	SSG1791JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309793	SSG1791JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309793	SSG1791JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309793	SSG1791JE	VOA8240	BROMOMETHANE	10.000 mg/kg	5.000 mg/kg	5.000 mg/kg
SS309793	SSG1791JE	VOA8240	VINYL ACETATE	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309893	SSG1792JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309893	SSG1792JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309893	SSG1792JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309893	SSG1792JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309893	SSG1792JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309893	SSG1792JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg

TABLE D-4
OU13 Surface-Soil Samples
Summary of Elevated Detection Limits
Rocky Flats Environmental Technology Site

IHSS 197						
Sample Location	Sample ID Number	Analytical Parameter	Analyte	Real Sample Detection Limits	Required Detection Limits	Deviation
SS309893	SSG1792JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309893	SSG1792JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309893	SSG1792JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309893	SSG1792JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309893	SSG1792JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309893	SSG1792JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309893	SSG1792JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309893	SSG1792JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309893	SSG1792JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309893	SSG1792JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309893	SSG1792JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309893	SSG1792JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309893	SSG1792JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309893	SSG1792JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309893	SSG1792JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309893	SSG1792JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309893	SSG1792JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309893	SSG1792JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309893	SSG1792JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309893	SSG1792JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309893	SSG1792JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS309893	SSG1792JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309893	SSG1792JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309893	SSG1792JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309893	SSG1792JE	VOA8240	ACETONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309893	SSG1792JE	VOA8240	BROMOMETHANE	10.000 mg/kg	5.000 mg/kg	5.000 mg/kg
SS309893	SSG1792JE	VOA8240	VINYL ACETATE	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309993	SSG1793JE	METADD	CESIUM	1000.000 mg/kg	200.000 mg/kg	800.000 mg/kg
SS309993	SSG1793JE	METADD	LITHIUM	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309993	SSG1793JE	METADD	MOLYBDENUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309993	SSG1793JE	METADD	STRONTIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309993	SSG1793JE	METADD	TIN	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309993	SSG1793JE	SMETCLP	ALUMINUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309993	SSG1793JE	SMETCLP	ANTIMONY	60.000 mg/kg	12.000 mg/kg	48.000 mg/kg
SS309993	SSG1793JE	SMETCLP	ARSENIC	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309993	SSG1793JE	SMETCLP	BARIUM	200.000 mg/kg	40.000 mg/kg	160.000 mg/kg
SS309993	SSG1793JE	SMETCLP	BERYLLIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309993	SSG1793JE	SMETCLP	CADMIUM	5.000 mg/kg	1.000 mg/kg	4.000 mg/kg
SS309993	SSG1793JE	SMETCLP	CALCIUM	5000.000 mg/kg	1000.000 mg/kg	4000.000 mg/kg
SS309993	SSG1793JE	SMETCLP	CHROMIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309993	SSG1793JE	SMETCLP	COBALT	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg
SS309993	SSG1793JE	SMETCLP	COPPER	25.000 mg/kg	5.000 mg/kg	20.000 mg/kg
SS309993	SSG1793JE	SMETCLP	IRON	100.000 mg/kg	20.000 mg/kg	80.000 mg/kg
SS309993	SSG1793JE	SMETCLP	LEAD	3.000 mg/kg	1.000 mg/kg	2.000 mg/kg
SS309993	SSG1793JE	SMETCLP	MAGNESIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309993	SSG1793JE	SMETCLP	MANGANESE	15.000 mg/kg	3.000 mg/kg	12.000 mg/kg
SS309993	SSG1793JE	SMETCLP	NICKEL	40.000 mg/kg	8.000 mg/kg	32.000 mg/kg
SS309993	SSG1793JE	SMETCLP	POTASSIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309993	SSG1793JE	SMETCLP	SELENIUM	5.000 mg/kg	0.050 mg/kg	4.950 mg/kg
SS309993	SSG1793JE	SMETCLP	SILVER	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309993	SSG1793JE	SMETCLP	SODIUM	5000.000 mg/kg	2000.000 mg/kg	3000.000 mg/kg
SS309993	SSG1793JE	SMETCLP	THALLIUM	10.000 mg/kg	2.000 mg/kg	8.000 mg/kg
SS309993	SSG1793JE	SMETCLP	VANADIUM	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309993	SSG1793JE	SMETCLP	ZINC	20.000 µg/kg	4.000 µg/kg	16.000 µg/kg
SS309993	SSG1793JE	TRADS	TRITIUM	500.000 µg/kg	400.000 µg/kg	100.000 µg/kg
SS309993	SSG1793JE	VOA8240	2-BUTANONE	100.000 µg/kg	10.000 µg/kg	90.000 µg/kg
SS309993	SSG1793JE	VOA8240	2-HEXANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309993	SSG1793JE	VOA8240	4-METHYL-2-PENTANONE	50.000 µg/kg	10.000 µg/kg	40.000 µg/kg
SS309993	SSG1793JE	VOA8240	ACETONE	100.000 mg/kg	10.000 mg/kg	90.000 mg/kg
SS309993	SSG1793JE	VOA8240	BROMOMETHANE	10.000 mg/kg	5.000 mg/kg	5.000 mg/kg
SS309993	SSG1793JE	VOA8240	VINYL ACETATE	50.000 mg/kg	10.000 mg/kg	40.000 mg/kg

Notes:

IHSS = Individual Hazardous Substance Site
mg/kg = milligrams per kilogram
OU = Operable Unit
pCi/g = picocuries per gram
pCi/L = picocuries per liter
µg/kg = micrograms per kilogram

TABLE D-5
OU13 Surface-Soil Samples
Sample Comparison (Required versus Actual)
Rocky Flats Environmental Technology Site

		Required Number of Samples per Sampling Plan Specifications	Actual Number of Samples	Deviation	Justification
Total Radionuclides		96	100	4	Extra samples taken in IHSS Group 117.1/197 & IHSS148; DOE approved
EPA-CLP Metals		52	70	18	Extra samples taken; DOE approved
Additional Metals		25	92	67	Additional analyses performed by laboratory; no charge to project
EPA-CLP Semivolatile Organic Compounds		0	12	12	Extra samples taken; DOE approved
Volatile Organic Compounds		0	15	15	Extra samples taken; DOE approved
pH		0	13	13	Extra samples taken; DOE approved
Percent Solids		0	19	19	Extra samples taken; DOE approved

Notes:

CLP = Contract Laboratory Program
DOE = U.S. Department of Energy
EPA = U.S. Environmental Protection Agency
IHSS = Individual Hazardous Substance Site
OU = Operable Unit

TABLE D-6
Data Completeness
OU13 Surface-Soil Samples
Rocky Flats Environmental Technology Site

Analytical Parameter	Total Number of Data Points	Total Number of Invalid Data Points	Percentage of Valid/Acceptable Data Points	Completeness Goal
EPA-CLP Metals (SMETCLP)	2495	7	99.7%	95%
Additional Metals (METADD)	537	1	99.8%	95%
EPA-CLP Semivolatile Organics (BNACLP)	2062	3	99.9%	95%
SW-846 Volatile Organics (VOA8240)	804	0	100.0%	95%
Total Radiochemistry (TRADS)	1289	6	99.5%	95%
Water Quality Parameters (WQPL, pH and % solids)	45	0	100.0%	95%

Notes:

CLP = Contract Laboratory Program
EPA = U.S. Environmental Protection Agency
OU = Operable Unit

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 117.1

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	ALUMINUM	18.400 µg/L	Analyte Not Detected	NO	0.092 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	BARIUM	1.000 µg/L	Analyte Not Detected	NO	0.005 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	CALCIUM	145.000 µg/L	Analyte Not Detected	NO	0.725 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	METADD	CESIUM	20.000 µg/L	Analyte Not Detected	NO	0.100 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	COPPER	2.900 µg/L	Analyte Not Detected	NO	0.015 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	IRON	42.600 µg/L	Analyte Not Detected	NO	0.213 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	LEAD	3.500 µg/L	Analyte Not Detected	NO	0.018 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	MAGNESIUM	27.400 µg/L	Analyte Not Detected	NO	0.137 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	MANGANESE	2.000 µg/L	Analyte Not Detected	NO	0.010 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	POTASSIUM	122.000 µg/L	Analyte Not Detected	NO	0.610 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	SODIUM	167.000 µg/L	Analyte Not Detected	NO	0.835 mg/kg	NA
SS309993	SSG1835JE	RNS	NA	NA	14-JUL-94	SMETCLP	ZINC	15.400 µg/L	Analyte Not Detected	NO	0.077 mg/kg	NA
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	METADD	CESIUM	20.000 µg/L	10.100 mg/kg	YES	0.100 mg/kg	YES
			SS309193	SSG1785JE					8.100 mg/kg	YES	0.100 mg/kg	YES
			SS310093	SSG1794JE					5.700 mg/kg	YES	0.100 mg/kg	YES
			SS310293	SSG1796JE					8.100 mg/kg	YES	0.100 mg/kg	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	SMETCLP	IRON	88.200 µg/L	16500.000 mg/kg	YES	0.441 mg/kg	YES
			SS309193	SSG1785JE					15200.000 mg/kg	YES	0.441 mg/kg	YES
			SS310093	SSG1794JE					4550.000 mg/kg	YES	0.441 mg/kg	YES
			SS310293	SSG1796JE					15700.000 mg/kg	YES	0.441 mg/kg	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	SMETCLP	LEAD	3.800 µg/L	17.200 mg/kg	YES	0.019 mg/kg	YES
			SS309193	SSG1785JE					34.000 mg/kg	YES	0.019 mg/kg	YES
			SS310093	SSG1794JE					12.500 mg/kg	YES	0.019 mg/kg	YES
			SS310293	SSG1796JE					75.900 mg/kg	YES	0.019 mg/kg	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	SMETCLP	POTASSIUM	89.400 µg/L	1560.000 mg/kg	YES	0.447 mg/kg	YES
			SS309193	SSG1785JE					1530.000 mg/kg	YES	0.447 mg/kg	YES
			SS310093	SSG1794JE					592.000 mg/kg	YES	0.447 mg/kg	YES
			SS310293	SSG1796JE					1530.000 mg/kg	YES	0.447 mg/kg	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	SMETCLP	SODIUM	87.800 µg/L	61.800 mg/kg	YES	0.439 mg/kg	YES
			SS309193	SSG1785JE					63.800 mg/kg	YES	0.439 mg/kg	YES
			SS310093	SSG1794JE					28.400 mg/kg	YES	0.439 mg/kg	YES
			SS310293	SSG1796JE					125.000 mg/kg	YES	0.439 mg/kg	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	TRADS	URANIUM-233,-234	0.200 BJ pCi/L	0.550 pCi/L	YES	0.001 pCi/g	YES
			SS309193	SSG1785JE					0.310 pCi/L	YES	0.001 pCi/g	YES
			SS310093	SSG1794JE					0.490 pCi/L	YES	0.001 pCi/g	YES
			SS310293	SSG1796JE					0.380 pCi/L	YES	0.001 pCi/g	YES
SS310093	SSG1837JE	RNS	SS309093	SSG1784JE	18-JUL-94	SMETCLP	ZINC	7.700 µg/L	109.000 mg/kg	YES	0.039 mg/kg	YES
			SS309193	SSG1785JE					203.000 mg/kg	YES	0.039 mg/kg	YES
			SS310093	SSG1794JE					58.300 mg/kg	YES	0.039 mg/kg	YES
			SS310293	SSG1796JE					226.000 mg/kg	YES	0.039 mg/kg	YES
SS309293	SSG1839JE	RNS	SS309293	SSG1786JE	19-JUL-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.060 mg/kg	YES	0.000 pCi/g	YES
SS309293	SSG1839JE	RNS	SS308993	SSG1783JE	19-JUL-94	METADD	CESIUM	20.000 µg/L	5.700 mg/kg	YES	0.100 mg/kg	YES
			SS309293	SSG1786JE					8.300 mg/kg	YES	0.100 mg/kg	YES
			SS309493	SSG1788JE					7.800 mg/kg	YES	0.100 mg/kg	YES
			SS309593	SSG1789JE					8.200 mg/kg	YES	0.100 mg/kg	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 117.1													
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results		Real Sample Results		Evaluation Required	Threshold Value	True Detect for Sample Results?
SS309293	SSG1839JE	RNS	SS308993	SSG1783JE	19-JUL-94	SMETCLP	SODIUM	61.000	µg/L	79.500	mg/kg	YES	0.305 mg/kg	YES
			SS309293	SSG1786JE						121.000	mg/kg	YES	0.305 mg/kg	YES
			SS309493	SSG1788JE						80.300	mg/kg	YES	0.305 mg/kg	YES
			SS309593	SSG1789JE						101.000	mg/kg	YES	0.305 mg/kg	YES
SS309293	SSG1839JE	RNS	NA	NA	19-JUL-94	VOA8240	TOLUENE	2.000 J	µg/L	Analyte Not Detected		NO	0.010 mg/kg	NA
SS309393	SSG1840JE	RNS	SS309393	SSG1787JE	20-JUL-94	METADD	CESIUM	30.000	µg/L	6.300	mg/kg	YES	0.150 mg/kg	YES
			SS310193	SSG1795JE						6.600	mg/kg	YES	0.150 mg/kg	YES
SS309393	SSG1840JE	RNS	SS309393	SSG1787JE	20-JUL-94	SMETCLP	COPPER	2.900	µg/L	23.700	mg/kg	YES	0.015 mg/kg	YES
			SS310193	SSG1795JE						16.600	mg/kg	YES	0.015 mg/kg	YES
SS309393	SSG1840JE	RNS	SS309393	SSG1787JE	20-JUL-94	SMETCLP	SODIUM	69.200	µg/L	71.100	mg/kg	YES	0.346 mg/kg	YES
			SS310193	SSG1795JE						55.200	mg/kg	YES	0.346 mg/kg	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 117.2

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	AMERICIUM-241	18.400 J pCi/L	0.014 pCi/g	YES	0.092 pCi/g	NO
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	CESIUM-134	-0.493 J pCi/L	0.005 J pCi/g	NO	0.000 pCi/g	NA
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	CESIUM-137	0.646 X pCi/L	0.042 pCi/g	YES	0.003 pCi/g	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	SMETCLP	COBALT	42.400 µg/L	7.500 mg/kg	YES	0.212 mg/kg	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	GROSS ALPHA	0.129 J pCi/L	16.930 pCi/g	YES	0.001 pCi/g	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	GROSS BETA	0.653 J pCi/L	30.330 pCi/g	YES	0.003 pCi/g	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	SMETCLP	IRON	1050.000 µg/L	13800.000 mg/kg	YES	5.250 mg/kg	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	SMETCLP	LEAD	2.300 µg/L	15.400 mg/kg	YES	0.012 mg/kg	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	SMETCLP	MANGANESE	15.400 µg/L	132.000 mg/kg	YES	0.077 mg/kg	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	PLUTONIUM-239/240	0.000 J pCi/L	0.033 pCi/g	YES	0.000 pCi/g	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	SMETCLP	POTASSIUM	147.000 µg/L	1480.000 mg/kg	YES	0.735 mg/kg	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	STRONTIUM-89,90	-0.002 J pCi/L	0.148 pCi/g	NO	0.000 pCi/g	NA
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	TRITIUM	-105.000 J pCi/L	79.670 J pCi/L	NO	0.000 pCi/L	NA
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	URANIUM-233,-234	0.057 J pCi/L	0.976 pCi/g	YES	0.000 pCi/g	YES
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	URANIUM-235	-0.005 J pCi/L	0.032 J pCi/g	NO	0.000 pCi/g	NA
SS300193	SSG1751JE	RNS	SS300193	SSG1694JE	22-DEC-93	TRADS	URANIUM-238	0.073 J pCi/L	0.874 pCi/g	YES	0.000 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	ALUMINUM	2480.000 µg/L	7590.000 mg/kg	YES	12.400 mg/kg	YES
			SS305993	SSG1753JE					6600.000 mg/kg	YES	12.400 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.092 pCi/g	YES	0.000 pCi/g	YES
			SS305993	SSG1753JE					0.132 pCi/g	YES	0.000 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	BARIUM	19.900 B µg/L	52.700 mg/kg	YES	0.100 mg/kg	YES
			SS305993	SSG1753JE					69.000 mg/kg	YES	0.100 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	CALCIUM	2770.000 B µg/L	2850.000 mg/kg	YES	13.850 mg/kg	YES
			SS305993	SSG1753JE					2720.000 mg/kg	YES	13.850 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	COPPER	4.400 B µg/L	21.500 mg/kg	YES	0.022 mg/kg	YES
			SS305993	SSG1753JE					20.400 mg/kg	YES	0.022 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	GROSS ALPHA	0.126 J pCi/L	19.370 pCi/g	YES	0.001 pCi/g	YES
			SS305993	SSG1753JE					33.900 pCi/g	YES	0.001 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	GROSS BETA	0.113 J pCi/L	42.040 pCi/g	YES	0.001 pCi/g	YES
			SS305993	SSG1753JE					47.170 pCi/g	YES	0.001 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	IRON	225.000 µg/L	12500.000 mg/kg	YES	1.125 mg/kg	YES
			SS305993	SSG1753JE					14100.000 mg/kg	YES	1.125 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	MAGNESIUM	384.000 B µg/L	2580.000 mg/kg	YES	1.920 mg/kg	YES
			SS305993	SSG1753JE					2610.000 mg/kg	YES	1.920 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	MANGANESE	76.700 µg/L	191.000 mg/kg	YES	0.384 mg/kg	YES
			SS305993	SSG1753JE					208.000 mg/kg	YES	0.384 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	PLUTONIUM-239/240	-0.008 J pCi/L	0.213 pCi/g	NO	0.000 pCi/g	NA
			SS305993	SSG1753JE					0.090 pCi/g	NO	0.000 pCi/g	NA
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	POTASSIUM	153.000 B µg/L	1230.000 mg/kg	YES	0.765 mg/kg	YES
			SS305993	SSG1753JE					1530.000 mg/kg	YES	0.765 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	SODIUM	581.000 B µg/L	252.000 B mg/kg	YES	2.905 mg/kg	YES
			SS305993	SSG1753JE					221.000 B mg/kg	YES	2.905 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	METADD	STRONTIUM	9.000 B µg/L	15.200 B mg/kg	YES	0.045 mg/kg	YES
			SS305993	SSG1753JE					16.400 B mg/kg	YES	0.045 mg/kg	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	TRITIUM	-101.000 J pCi/L	-1.930 J pCi/g	NO	0.000 pCi/L	NA

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 117.2

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS305993	SSG1753JE					-27.100 J pCi/g	NO	0.000 pCi/L	NA
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	URANIUM-233,-234	0.103 J pCi/L	1.535 pCi/g	YES	0.001 pCi/g	YES
			SS305993	SSG1753JE					1.722 pCi/g	YES	0.001 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	URANIUM-235	0.018 J pCi/L	0.049 pCi/g	YES	0.000 pCi/g	YES
			SS305993	SSG1753JE					0.087 pCi/g	YES	0.000 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	TRADS	URANIUM-238	0.018 J pCi/L	1.379 pCi/g	YES	0.000 pCi/g	YES
			SS305993	SSG1753JE					1.537 pCi/g	YES	0.000 pCi/g	YES
SS305893	SSG1823JE	RNS	SS305893	SSG1752JE	28-JUN-94	SMETCLP	VANADIUM	3.100 B µg/L	23.900 mg/kg	YES	0.016 mg/kg	YES
			SS305993	SSG1753JE					22.700 mg/kg	YES	0.016 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	ALUMINUM	176.000 µg/L	3400.000 mg/kg	YES	0.880 mg/kg	YES
			SS306193	SSG1755JE					10000.000 mg/kg	YES	0.880 mg/kg	YES
			SS306293	SSG1756JE					3640.000 mg/kg	YES	0.880 mg/kg	YES
			SS306693	SSG1760JE					3450.000 mg/kg	YES	0.880 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.002 J pCi/g	YES	0.000 pCi/g	YES
			SS306193	SSG1755JE					0.067 pCi/g	YES	0.000 pCi/g	YES
			SS306293	SSG1756JE					0.116 pCi/g	YES	0.000 pCi/g	YES
			SS306693	SSG1760JE					0.061 pCi/g	YES	0.000 pCi/g	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	GROSS ALPHA	0.078 J pCi/L	19.610 pCi/g	YES	0.000 pCi/g	YES
			SS306193	SSG1755JE					24.740 pCi/g	YES	0.000 pCi/g	YES
			SS306293	SSG1756JE					22.820 pCi/g	YES	0.000 pCi/g	YES
			SS306693	SSG1760JE					16.480 pCi/g	YES	0.000 pCi/g	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	GROSS BETA	0.933 J pCi/L	35.780 pCi/g	YES	0.005 pCi/g	YES
			SS306193	SSG1755JE					41.900 pCi/g	YES	0.005 pCi/g	YES
			SS306293	SSG1756JE					44.350 pCi/g	YES	0.005 pCi/g	YES
			SS306693	SSG1760JE					44.420 pCi/g	YES	0.005 pCi/g	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	IRON	10.600 B µg/L	7270.000 mg/kg	YES	0.053 mg/kg	YES
			SS306193	SSG1755JE					15500.000 mg/kg	YES	0.053 mg/kg	YES
			SS306293	SSG1756JE					7390.000 mg/kg	YES	0.053 mg/kg	YES
			SS306693	SSG1760JE					8410.000 mg/kg	YES	0.053 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	LEAD	5.500 µg/L	5.100 mg/kg	YES	0.028 mg/kg	YES
			SS306193	SSG1755JE					62.800 mg/kg	YES	0.028 mg/kg	YES
			SS306293	SSG1756JE					21.400 mg/kg	YES	0.028 mg/kg	YES
			SS306693	SSG1760JE					31.200 mg/kg	YES	0.028 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	MAGNESIUM	35.400 B µg/L	1090.000 mg/kg	YES	0.177 mg/kg	YES
			SS306193	SSG1755JE					3150.000 mg/kg	YES	0.177 mg/kg	YES
			SS306293	SSG1756JE					1150.000 mg/kg	YES	0.177 mg/kg	YES
			SS306693	SSG1760JE					1630.000 mg/kg	YES	0.177 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	MANGANESE	4.400 B µg/L	135.000 mg/kg	YES	0.022 mg/kg	YES
			SS306193	SSG1755JE					244.000 mg/kg	YES	0.022 mg/kg	YES
			SS306293	SSG1756JE					129.000 mg/kg	YES	0.022 mg/kg	YES
			SS306693	SSG1760JE					141.000 mg/kg	YES	0.022 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	PLUTONIUM-239/240	0.019 pCi/L	0.028 pCi/g	YES	0.000 pCi/g	YES
			SS306193	SSG1755JE					0.246 pCi/g	YES	0.000 pCi/g	YES
			SS306293	SSG1756JE					0.077 pCi/g	YES	0.000 pCi/g	YES
			SS306693	SSG1760JE					0.111 pCi/g	YES	0.000 pCi/g	YES

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	SMETCLP	POTASSIUM	101.000 B µg/L	696.000 B mg/kg	YES	0.505 mg/kg	YES
			SS306193	SSG1755JE					1900.000 mg/kg	YES	0.505 mg/kg	YES
			SS306293	SSG1756JE					670.000 B mg/kg	YES	0.505 mg/kg	YES
			SS306693	SSG1760JE					936.000 B mg/kg	YES	0.505 mg/kg	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	TRITIUM	-11.200 J pCi/L	-32.800 J pCi/L	NO	0.000 pCi/L	NA
			SS306193	SSG1755JE					15.770 J pCi/L	NO	0.000 pCi/L	NA
			SS306293	SSG1756JE					-68.600 J pCi/L	NO	0.000 pCi/L	NA
			SS306693	SSG1760JE					-168.000 J pCi/L	NO	0.000 pCi/L	NA
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	URANIUM-233,-234	0.109 J pCi/L	0.939 pCi/g	YES	0.001 pCi/g	YES
			SS306193	SSG1755JE					1.599 pCi/g	YES	0.001 pCi/g	YES
			SS306293	SSG1756JE					1.184 pCi/g	YES	0.001 pCi/g	YES
			SS306693	SSG1760JE					0.934 pCi/g	YES	0.001 pCi/g	YES
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	URANIUM-235	-0.023 J pCi/L	0.029 J pCi/g	NO	0.000 pCi/g	NA
			SS306193	SSG1755JE					0.048 J pCi/g	NO	0.000 pCi/g	NA
			SS306293	SSG1756JE					0.054 pCi/g	NO	0.000 pCi/g	NA
			SS306693	SSG1760JE					0.022 J pCi/g	NO	0.000 pCi/g	NA
SS306093	SSG1825JE	RNS	SS306093	SSG1754JE	29-JUN-94	TRADS	URANIUM-238	0.006 J pCi/L	0.850 pCi/g	YES	0.000 pCi/g	YES
			SS306193	SSG1755JE					1.595 pCi/g	YES	0.000 pCi/g	YES
			SS306293	SSG1756JE					1.114 pCi/g	YES	0.000 pCi/g	YES
			SS306693	SSG1760JE					1.496 pCi/g	YES	0.000 pCi/g	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	SMETCLP	ALUMINUM	228.000 µg/L	3610.000 mg/kg	YES	1.140 mg/kg	YES
			SS306493	SSG1758JE					5490.000 mg/kg	YES	1.140 mg/kg	YES
			SS306593	SSG1759JE					4290.000 mg/kg	YES	1.140 mg/kg	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	AMERICIUM-241	0.002 J pCi/L	0.005 J pCi/g	YES	0.000 pCi/g	YES
			SS306493	SSG1758JE					0.060 pCi/g	YES	0.000 pCi/g	YES
			SS306593	SSG1759JE					0.006 J pCi/g	YES	0.000 pCi/g	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	GROSS ALPHA	-0.041 J pCi/L	17.770 pCi/g	NO	0.000 pCi/g	NA
			SS306493	SSG1758JE					24.330 pCi/g	NO	0.000 pCi/g	NA
			SS306593	SSG1759JE					20.110 pCi/g	NO	0.000 pCi/g	NA
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	GROSS BETA	0.476 J pCi/L	28.180 pCi/g	YES	0.002 pCi/g	YES
			SS306493	SSG1758JE					40.260 pCi/g	YES	0.002 pCi/g	YES
			SS306593	SSG1759JE					30.990 pCi/g	YES	0.002 pCi/g	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	SMETCLP	LEAD	3.900 µg/L	4.200 mg/kg	YES	0.020 mg/kg	YES
			SS306493	SSG1758JE					24.900 mg/kg	YES	0.020 mg/kg	YES
			SS306593	SSG1759JE					8.800 mg/kg	YES	0.020 mg/kg	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	SMETCLP	MANGANESE	5.600 B µg/L	112.000 mg/kg	YES	0.028 mg/kg	YES
			SS306493	SSG1758JE					185.000 mg/kg	YES	0.028 mg/kg	YES
			SS306593	SSG1759JE					180.000 mg/kg	YES	0.028 mg/kg	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	PLUTONIUM-239/240	0.030 pCi/L	-0.001 J pCi/g	NO	0.000 pCi/g	NA
			SS306493	SSG1758JE					0.177 pCi/g	YES	0.000 pCi/g	YES
			SS306593	SSG1759JE					0.010 pCi/g	YES	0.000 pCi/g	YES
SS306393	SSG1826JE	RNS	NA	NA	30-JUN-94	SMETCLP	SELENIUM	3.500 B µg/L	Analyte Not Detected	NO	0.018 mg/kg	NA
SS306393	SSG1826JE	RNS	NA	NA	30-JUN-94	SMETCLP	SODIUM	150.000 B µg/L	Analyte Not Detected	NO	0.750 mg/kg	NA
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	TRITIUM	-77.100 J pCi/L	168.000 J pCi/L	NO	0.000 pCi/L	NA
			SS306493	SSG1758JE					3.863 J pCi/L	NO	0.000 pCi/L	NA

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS306593	SSG1759JE					13.520 J pCi/L	NO	0.000 pCi/L	NA
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	URANIUM-233,-234	0.128 J pCi/L	0.815 pCi/g	YES	0.001 pCi/g	YES
			SS306493	SSG1758JE					1.024 pCi/g	YES	0.001 pCi/g	YES
			SS306593	SSG1759JE					0.730 pCi/g	YES	0.001 pCi/g	YES
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	URANIUM-235	-0.016 J pCi/L	0.071 pCi/g	NO	0.000 pCi/g	NA
			SS306493	SSG1758JE					0.067 pCi/g	NO	0.000 pCi/g	NA
			SS306593	SSG1759JE					0.047 pCi/g	NO	0.000 pCi/g	NA
SS306393	SSG1826JE	RNS	SS306393	SSG1757JE	30-JUN-94	TRADS	URANIUM-238	0.016 J pCi/L	1.081 pCi/g	YES	0.000 pCi/g	YES
			SS306493	SSG1758JE					1.502 pCi/g	YES	0.000 pCi/g	YES
			SS306593	SSG1759JE					0.865 pCi/g	YES	0.000 pCi/g	YES

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	AMERICIUM-241	18.400 J pCi/L	0.020 pCi/g	YES	0.092 pCi/g	NO
			SS307993	SSG1773JE					0.019 pCi/g	YES	0.092 pCi/g	NO
			SS308793	SSG1781JE					0.002 J pCi/g	YES	0.092 pCi/g	NO
			SS308893	SSG1782JE					0.023 pCi/g	YES	0.092 pCi/g	NO
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	GROSS ALPHA	0.038 J pCi/L	26.010 pCi/g	YES	0.000 pCi/g	YES
			SS307993	SSG1773JE					25.370 pCi/g	YES	0.000 pCi/g	YES
			SS308793	SSG1781JE					24.930 pCi/g	YES	0.000 pCi/g	YES
			SS308893	SSG1782JE					23.510 pCi/g	YES	0.000 pCi/g	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	GROSS BETA	0.156 J pCi/L	34.200 pCi/g	YES	0.001 pCi/g	YES
			SS307993	SSG1773JE					33.840 pCi/g	YES	0.001 pCi/g	YES
			SS308793	SSG1781JE					39.800 pCi/g	YES	0.001 pCi/g	YES
			SS308893	SSG1782JE					39.030 pCi/g	YES	0.001 pCi/g	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	SMETCLP	LEAD	3.300 µg/L	16.600 mg/kg	YES	0.017 mg/kg	YES
			SS307993	SSG1773JE					19.600 mg/kg	YES	0.017 mg/kg	YES
			SS308793	SSG1781JE					8.300 mg/kg	YES	0.017 mg/kg	YES
			SS308893	SSG1782JE					8.000 mg/kg	YES	0.017 mg/kg	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	PLUTONIUM-239/240	0.003 J pCi/L	0.073 pCi/g	YES	0.000 pCi/g	YES
			SS307993	SSG1773JE					0.099 pCi/g	YES	0.000 PCI/G	YES
			SS308793	SSG1781JE					0.018 J pCi/g	YES	0.000 PCI/G	YES
			SS308893	SSG1782JE					0.093 pCi/g	YES	0.000 PCI/G	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	SMETCLP	POTASSIUM	68.200 B µg/L	1020.000 I mg/kg	YES	0.341 mg/kg	YES
			SS307993	SSG1773JE					1460.000 I mg/kg	YES	0.341 mg/kg	YES
			SS308793	SSG1781JE					1140.000 I mg/kg	YES	0.341 mg/kg	YES
			SS308893	SSG1782JE					978.000 B mg/kg	YES	0.341 mg/kg	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	TRITIUM	-58.500 J pCi/L	-5.790 J pCi/L	NO	0.000 pCi/L	NA
			SS307993	SSG1773JE					-53.100 J pCi/L	NO	0.000 pCi/L	NA
			SS308793	SSG1781JE					156.600 J pCi/L	NO	0.000 pCi/L	NA
			SS308893	SSG1782JE					-66.600 J pCi/L	NO	0.000 pCi/L	NA
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	URANIUM-233,-234	0.044 J pCi/L	1.183 pCi/g	YES	0.000 pCi/g	YES
			SS307993	SSG1773JE					1.245 pCi/g	YES	0.000 pCi/g	YES
			SS308793	SSG1781JE					2.261 pCi/g	YES	0.000 pCi/g	YES
			SS308893	SSG1782JE					2.087 pCi/g	YES	0.000 pCi/g	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	URANIUM-235	0.044 J pCi/L	0.060 pCi/g	YES	0.000 pCi/g	YES
			SS307993	SSG1773JE					0.032 J pCi/g	YES	0.000 pCi/g	YES
			SS308793	SSG1781JE					0.093 pCi/g	YES	0.000 pCi/g	YES
			SS308893	SSG1782JE					0.091 pCi/g	YES	0.000 pCi/g	YES
SS307993	SSG1831JE	RNS	SS307893	SSG1772JE	08-JUL-94	TRADS	URANIUM-238	0.022 J pCi/L	1.276 pCi/g	YES	0.000 pCi/g	YES
			SS307993	SSG1773JE					1.311 pCi/g	YES	0.000 pCi/g	YES
			SS308793	SSG1781JE					1.815 pCi/g	YES	0.000 pCi/g	YES
			SS308893	SSG1782JE					1.952 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	SMETCLP	ALUMINUM	24.000 B µg/L	9600.000 I mg/kg	YES	0.120 mg/kg	YES
			SS308193	SSG1775JE					10900.000 I mg/kg	YES	0.120 mg/kg	YES
			SS308293	SSG1776JE					7910.000 I mg/kg	YES	0.120 mg/kg	YES
			SS308393	SSG1777JE					7080.000 I mg/kg	YES	0.120 mg/kg	YES
			SS308493	SSG1778JE					13500.000 I mg/kg	YES	0.120 mg/kg	YES

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS308593	SSG1779JE					13800.000 I mg/kg	YES	0.120 mg/kg	YES
			SS308693	SSG1780JE					8220.000 I mg/kg	YES	0.120 mg/kg	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	AMERICIUM-241	0.001 J pCi/L	0.061 pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					0.029 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					0.027 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					0.039 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					0.062 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					0.024 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					0.040 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	GROSS ALPHA	0.063 J pCi/L	19.800 pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					22.140 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					22.700 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					23.280 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					21.770 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					22.420 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					19.170 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	GROSS BETA	0.800 J pCi/L	35.200 pCi/g	YES	0.004 pCi/g	YES
			SS308193	SSG1775JE					37.140 pCi/g	YES	0.004 pCi/g	YES
			SS308293	SSG1776JE					35.120 pCi/g	YES	0.004 pCi/g	YES
			SS308393	SSG1777JE					41.580 pCi/g	YES	0.004 pCi/g	YES
			SS308493	SSG1778JE					38.240 pCi/g	YES	0.004 pCi/g	YES
			SS308593	SSG1779JE					37.540 pCi/g	YES	0.004 pCi/g	YES
			SS308693	SSG1780JE					37.340 pCi/g	YES	0.004 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	SMETCLP	LEAD	2.100 B µg/L	41.900 mg/kg	YES	0.011 mg/kg	YES
			SS308193	SSG1775JE					90.600 mg/kg	YES	0.011 mg/kg	YES
			SS308293	SSG1776JE					45.200 mg/kg	YES	0.011 mg/kg	YES
			SS308393	SSG1777JE					47.000 mg/kg	YES	0.011 mg/kg	YES
			SS308493	SSG1778JE					78.500 mg/kg	YES	0.011 mg/kg	YES
			SS308593	SSG1779JE					33.200 mg/kg	YES	0.011 mg/kg	YES
			SS308693	SSG1780JE					28.900 mg/kg	YES	0.011 mg/kg	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	PLUTONIUM-239/240	0.008 pCi/L	0.203 pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					0.083 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					0.169 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					0.087 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					0.385 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					0.144 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					0.169 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	SMETCLP	POTASSIUM	73.800 B µg/L	1200.000 I mg/kg	YES	0.369 mg/kg	YES
			SS308193	SSG1775JE					1010.000 I mg/kg	YES	0.369 mg/kg	YES
			SS308293	SSG1776JE					1020.000 I mg/kg	YES	0.369 mg/kg	YES
			SS308393	SSG1777JE					1140.000 I mg/kg	YES	0.369 mg/kg	YES
			SS308493	SSG1778JE					1440.000 I mg/kg	YES	0.369 mg/kg	YES
			SS308593	SSG1779JE					857.000 B mg/kg	YES	0.369 mg/kg	YES
			SS308693	SSG1780JE					939.000 B mg/kg	YES	0.369 mg/kg	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	TRITIUM	-20.400 J pCi/L	-28.000 J pCi/L	NO	0.000 pCi/L	NA

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS308193	SSG1775JE					0.965 J pCi/L	NO	0.000 pCi/L	NA
			SS308293	SSG1776JE					30.880 J pCi/L	NO	0.000 pCi/L	NA
			SS308393	SSG1777JE					34.740 J pCi/L	NO	0.000 pCi/L	NA
			SS308493	SSG1778JE					124.500 J pCi/L	NO	0.000 pCi/L	NA
			SS308593	SSG1779JE					104.600 J pCi/L	NO	0.000 pCi/L	NA
			SS308693	SSG1780JE					-42.500 J pCi/L	NO	0.000 pCi/L	NA
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	URANIUM-233,-234	0.090 J pCi/L	1.152 pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					0.914 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					1.256 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					1.046 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					0.870 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					1.314 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					1.036 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	URANIUM-235	0.043 J pCi/L	0.022 J pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					0.047 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					0.044 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					0.039 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					0.028 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					0.097 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					0.064 pCi/g	YES	0.000 pCi/g	YES
SS308493	SSG1833JE	RNS	SS308093	SSG1774JE	11-JUL-94	TRADS	URANIUM-238	0.014 J pCi/L	1.259 pCi/g	YES	0.000 pCi/g	YES
			SS308193	SSG1775JE					1.200 pCi/g	YES	0.000 pCi/g	YES
			SS308293	SSG1776JE					1.329 pCi/g	YES	0.000 pCi/g	YES
			SS308393	SSG1777JE					1.239 pCi/g	YES	0.000 pCi/g	YES
			SS308493	SSG1778JE					0.935 pCi/g	YES	0.000 pCi/g	YES
			SS308593	SSG1779JE					1.433 pCi/g	YES	0.000 pCi/g	YES
			SS308693	SSG1780JE					1.034 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 128												
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	AMERICIUM-241	18.400 J pCi/L	0.044 pCi/g	YES	0.092 pCi/g	NO
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	GROSS ALPHA	0.239 J pCi/L	24.890 pCi/g	YES	0.001 pCi/g	YES
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	GROSS BETA	0.548 J pCi/L	41.820 pCi/g	YES	0.003 pCi/g	YES
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	PLUTONIUM-239/240	-0.001 J pCi/L	0.087 pCi/g	NO	0.000 pCi/g	NA
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	TRITIUM	49.980 X pCi/L	191.500 J pCi/L	YES	249.900 pCi/L	NO
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	URANIUM-233,-234	0.023 J pCi/L	1.196 pCi/g	YES	0.000 pCi/g	YES
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	URANIUM-235	-0.015 J pCi/L	0.076 pCi/g	NO	0.000 pCi/g	NA
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	URANIUM-238	0.011 J pCi/L	1.381 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 134N													
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results		Real Sample Results		Evaluation Required	Threshhold Value	True Detect for Sample Results?
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	ALUMINUM	18.400	µg/L	15100.000	mg/kg	YES	0.092 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	BARIUM	1.000	µg/L	38.400	mg/kg	YES	0.005 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	CALCIUM	404.000	µg/L	18100.000	mg/kg	YES	2.020 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	COPPER	3.100	µg/L	72.000	mg/kg	YES	0.016 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	LEAD	2.400	µg/L	9.500	mg/kg	YES	0.012 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	MAGNESIUM	60.000	µg/L	18400.000	mg/kg	YES	0.300 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	MANGANESE	1.800	µg/L	780.000	mg/kg	YES	0.009 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	POTASSIUM	468.000	µg/L	1630.000	mg/kg	YES	2.340 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	SELENIUM	2.900	µg/L	1.600	mg/kg	YES	0.015 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	SMETCLP	SODIUM	282.000	µg/L	2850.000	mg/kg	YES	1.410 mg/kg	YES
SS310393	SSG1838JE	RNS	SS310393	SSG1798JE	18-JUL-94	METADD	STRONTIUM	1.700	µg/L	413.000	mg/kg	YES	0.009 mg/kg	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 134 S

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	AMERICIUM-241	18.400 J pCi/L	0.291 pCi/g	YES	0.092 pCi/g	YES
			SS301593	SSG1708JE					0.061 pCi/g	YES	0.092 pCi/g	NO
			SS301693	SSG1709JE					0.252 pCi/g	YES	0.092 pCi/g	YES
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	GROSS ALPHA	0.130 J pCi/L	18.100 pCi/g	YES	0.001 pCi/g	YES
			SS301593	SSG1708JE					15.370 pCi/g	YES	0.001 pCi/g	YES
			SS301693	SSG1709JE					17.910 pCi/g	YES	0.001 pCi/g	YES
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	GROSS BETA	0.080 J pCi/L	42.810 pCi/g	YES	0.000 pCi/g	YES
			SS301593	SSG1708JE					40.780 pCi/g	YES	0.000 pCi/g	YES
			SS301693	SSG1709JE					39.730 pCi/g	YES	0.000 pCi/g	YES
			SS301493	SSG1707JE					12.900 B mg/kg	YES	0.000 mg/kg	YES
			SS301593	SSG1708JE					7.500 B mg/kg	YES	0.000 mg/kg	YES
			SS301693	SSG1709JE					4.800 B mg/kg	YES	0.000 mg/kg	YES
			SS301493	SSG1707JE					10300.000 mg/kg	YES	0.000 mg/kg	YES
			SS301593	SSG1708JE					4720.000 mg/kg	YES	0.000 mg/kg	YES
			SS301693	SSG1709JE					3480.000 mg/kg	YES	0.000 mg/kg	YES
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	TRITIUM	87.470 X pCi/L	53.880 J pCi/L	YES	437.350 pCi/L	NO
			SS301593	SSG1708JE					122.200 J pCi/L	YES	437.350 pCi/L	NO
			SS301693	SSG1709JE					161.700 J pCi/L	YES	437.350 pCi/L	NO
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	URANIUM-233,-234	0.075 J pCi/L	1.260 pCi/g	YES	0.000 pCi/g	YES
			SS301593	SSG1708JE					1.323 pCi/g	YES	0.000 pCi/g	YES
			SS301693	SSG1709JE					1.044 pCi/g	YES	0.000 pCi/g	YES
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	URANIUM-235	0.071 J pCi/L	0.050 pCi/g	YES	0.000 pCi/g	YES
			SS301593	SSG1708JE					0.069 pCi/g	YES	0.000 pCi/g	YES
			SS301693	SSG1709JE					0.071 pCi/g	YES	0.000 pCi/g	YES
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	URANIUM-238	-0.004 J pCi/L	1.468 pCi/g	NO	0.000 pCi/g	NA
			SS301593	SSG1708JE					1.356 pCi/g	NO	0.000 pCi/g	NA
			SS301693	SSG1709JE					1.305 pCi/g	NO	0.000 pCi/g	NA
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	AMERICIUM-241	0.002 J pCi/L	0.099 pCi/g	YES	0.000 pCi/g	YES
			SS302693	SSG1719JE					0.044 pCi/g	YES	0.000 pCi/g	YES
			SS302793	SSG1720JE					0.109 pCi/g	YES	0.000 pCi/g	YES
			SS302893	SSG1721JE					0.056 pCi/g	YES	0.000 pCi/g	YES
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	GROSS ALPHA	0.163 J pCi/L	24.210 pCi/g	YES	0.001 pCi/g	YES
			SS302693	SSG1719JE					38.290 pCi/g	YES	0.001 pCi/g	YES
			SS302793	SSG1720JE					27.420 pCi/g	YES	0.001 pCi/g	YES
			SS302893	SSG1721JE					17.670 pCi/g	YES	0.001 pCi/g	YES
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	GROSS BETA	0.855 J pCi/L	46.150 pCi/g	YES	0.004 pCi/g	YES
			SS302693	SSG1719JE					58.060 pCi/g	YES	0.004 pCi/g	YES
			SS302793	SSG1720JE					41.760 pCi/g	YES	0.004 pCi/g	YES
			SS302893	SSG1721JE					43.790 pCi/g	YES	0.004 pCi/g	YES
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	PLUTONIUM-239/240	-0.002 J pCi/L	0.313 pCi/g	NO	0.000 pCi/g	NA
			SS302693	SSG1719JE					0.076 pCi/g	NO	0.000 pCi/g	NA
			SS302793	SSG1720JE					0.376 pCi/g	NO	0.000 pCi/g	NA
			SS302893	SSG1721JE					0.237 pCi/g	NO	0.000 pCi/g	NA
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	TRITIUM	14.420 X pCi/L	88.510 J pCi/L	YES	72.100 pCi/L	YES
			SS302693	SSG1719JE					205.900 J pCi/L	YES	72.100 pCi/L	YES

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OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS302793	SSG1720JE					283.800 pCi/L	YES	72.100 pCi/L	YES
			SS302893	SSG1721JE					125.100 J pCi/L	YES	72.100 pCi/L	YES
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	URANIUM-233,-234	0.115 J pCi/L	1.205 pCi/g	YES	0.001 pCi/g	YES
			SS302693	SSG1719JE					1.971 pCi/g	YES	0.001 pCi/g	YES
			SS302793	SSG1720JE					1.538 pCi/g	YES	0.001 pCi/g	YES
			SS302893	SSG1721JE					1.327 pCi/g	YES	0.001 pCi/g	YES
SS302793	SSG1811JE	RNS	SS302593	SSG1718JE	14-JUN-94	TRADS	URANIUM-235	-0.004 J pCi/L	0.054 pCi/g	NO	0.000 pCi/g	NA
			SS302693	SSG1719JE					0.101 pCi/g	NO	0.000 pCi/g	NA
			SS302793	SSG1720JE					0.073 pCi/g	NO	0.000 pCi/g	NA
			SS302893	SSG1721JE					0.046 pCi/g	NO	0.000 pCi/g	NA
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.032 pCi/g	YES	0.000 pCi/g	YES
			SS303093	SSG1723JE					0.116 pCi/g	YES	0.000 pCi/g	YES
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	GROSS ALPHA	0.004 J pCi/L	24.490 pCi/g	YES	0.000 pCi/g	YES
			SS303093	SSG1723JE					41.210 pCi/g	YES	0.000 pCi/g	YES
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	GROSS BETA	0.241 J pCi/L	32.130 pCi/g	YES	0.001 pCi/g	YES
			SS303093	SSG1723JE					35.480 pCi/g	YES	0.001 pCi/g	YES
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	PLUTONIUM-239/240	-0.002 J pCi/L	0.062 pCi/g	NO	0.000 pCi/g	NA
			SS303093	SSG1723JE					0.465 pCi/g	NO	0.000 pCi/g	NA
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	TRITIUM	-40.400 J pCi/L	53.870 X pCi/L	NO	0.000 pCi/L	NA
			SS303093	SSG1723JE					-19.200 J pCi/L	NO	0.000 pCi/L	NA
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	URANIUM-233,-234	0.068 J pCi/L	1.563 pCi/G	YES	0.000 pCi/G	YES
			SS303093	SSG1723JE					3.500 pCi/G	YES	0.000 pCi/G	YES
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	URANIUM-235	0.014 J pCi/L	0.075 pCi/G	YES	0.000 pCi/G	YES
			SS303093	SSG1723JE					0.168 pCi/G	YES	0.000 pCi/G	YES
SS302993	SSG1812JE	RNS	SS302993	SSG1722JE	15-JUN-94	TRADS	URANIUM-238	0.021 J pCi/L	2.002 pCi/G	YES	0.000 pCi/G	YES
			SS303093	SSG1723JE					1.473 pCi/G	YES	0.000 pCi/G	YES
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	AMERICIUM-241	-0.001 J pCi/L	0.065 pCi/G	NO	0.000 pCi/G	NA
			SS303293	SSG1725JE					0.003 J pCi/G	NO	0.000 pCi/G	NA
			SS303393	SSG1726JE					0.010 pCi/G	NO	0.000 pCi/G	NA
			SS303493	SSG1727JE					0.009 pCi/G	NO	0.000 pCi/G	NA
			SS303593	SSG1728JE					0.005 pCi/G	NO	0.000 pCi/G	NA
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	GROSS ALPHA	0.008 J pCi/L	21.520 pCi/G	YES	0.000 pCi/G	YES
			SS303293	SSG1725JE					31.810 pCi/G	YES	0.000 pCi/G	YES
			SS303393	SSG1726JE					33.100 pCi/G	YES	0.000 pCi/G	YES
			SS303493	SSG1727JE					23.960 pCi/G	YES	0.000 pCi/G	YES
			SS303593	SSG1728JE					37.940 pCi/G	YES	0.000 pCi/G	YES
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	GROSS BETA	0.650 J pCi/L	47.870 pCi/G	YES	0.003 pCi/G	YES
			SS303293	SSG1725JE					48.770 pCi/G	YES	0.003 pCi/G	YES
			SS303393	SSG1726JE					49.300 pCi/G	YES	0.003 pCi/G	YES
			SS303493	SSG1727JE					41.700 pCi/G	YES	0.003 pCi/G	YES
			SS303593	SSG1728JE					59.170 pCi/G	YES	0.003 pCi/G	YES
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	TRITIUM	-76.800 J pCi/L	-39.500 J pCi/L	NO	0.000 pCi/L	NA
			SS303293	SSG1725JE					39.480 J pCi/L	NO	0.000 pCi/L	NA
			SS303393	SSG1726JE					29.850 J pCi/L	NO	0.000 pCi/L	NA
			SS303493	SSG1727JE					269.600 pCi/L	NO	0.000 pCi/L	NA

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Comparison of Environmental Samples with Equipment Rinse Blanks
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IHSS 134 S												
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS303593	SSG1728JE					-30.800 J pCi/L	NO	0.000 pCi/L	NA
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	URANIUM-233,-234	0.133 J pCi/L	0.906 pCi/g	YES	0.001 pCi/g	YES
			SS303293	SSG1725JE					1.415 pCi/g	YES	0.001 pCi/g	YES
			SS303393	SSG1726JE					1.512 pCi/g	YES	0.001 pCi/g	YES
			SS303493	SSG1727JE					1.785 pCi/g	YES	0.001 pCi/g	YES
			SS303593	SSG1728JE					2.874 pCi/g	YES	0.001 pCi/g	YES
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	URANIUM-235	0.035 J pCi/L	0.009 J pCi/g	YES	0.000 pCi/g	YES
			SS303293	SSG1725JE					0.055 pCi/g	YES	0.000 pCi/g	YES
			SS303393	SSG1726JE					0.133 pCi/g	YES	0.000 pCi/g	YES
			SS303493	SSG1727JE					0.086 pCi/g	YES	0.000 pCi/g	YES
			SS303593	SSG1728JE					0.127 pCi/g	YES	0.000 pCi/g	YES
SS303193	SSG1814JE	RNS	SS303193	SSG1724JE	16-JUN-94	TRADS	URANIUM-238	0.075 J pCi/L	1.372 pCi/g	YES	0.000 pCi/g	YES
			SS303293	SSG1725JE					1.373 pCi/g	YES	0.000 pCi/g	YES
			SS303393	SSG1726JE					1.320 pCi/g	YES	0.000 pCi/g	YES
			SS303493	SSG1727JE					1.612 pCi/g	YES	0.000 pCi/g	YES
			SS303593	SSG1728JE					2.894 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	SMETCLP	ALUMINUM	18.400 B µg/L	11600.000 I mg/kg	YES	0.092 mg/kg	YES
			SS306993	SSG1762JE					15100.000 I mg/kg	YES	0.092 mg/kg	YES
			SS307093	SSG1763JE					11100.000 I mg/kg	YES	0.092 mg/kg	YES
			SS307393	SSG1766JE					10700.000 I mg/kg	YES	0.092 mg/kg	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	GROSS ALPHA	-0.024 J pCi/L	29.260 pCi/g	NO	0.000 pCi/g	NA
			SS306993	SSG1762JE					23.540 pCi/g	NO	0.000 pCi/g	NA
			SS307093	SSG1763JE					27.070 pCi/g	NO	0.000 pCi/g	NA
			SS307393	SSG1766JE					23.530 pCi/g	NO	0.000 pCi/g	NA
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	GROSS BETA	0.762 J pCi/L	42.850 pCi/g	YES	0.004 pCi/g	YES
			SS306993	SSG1762JE					38.850 pCi/g	YES	0.004 pCi/g	YES
			SS307093	SSG1763JE					37.840 pCi/g	YES	0.004 pCi/g	YES
			SS307393	SSG1766JE					41.120 pCi/g	YES	0.004 pCi/g	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	SMETCLP	LEAD	2.700 B µg/L	53.000 mg/kg	YES	0.014 mg/kg	YES
			SS306993	SSG1762JE					62.400 mg/kg	YES	0.014 mg/kg	YES
			SS307093	SSG1763JE					152.000 mg/kg	YES	0.014 mg/kg	YES
			SS307393	SSG1766JE					128.000 mg/kg	YES	0.014 mg/kg	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	PLUTONIUM-239/240	0.022 pCi/L	0.040 pCi/g	YES	0.000 pCi/g	YES
			SS306993	SSG1762JE					0.104 pCi/g	YES	0.000 pCi/g	YES
			SS307093	SSG1763JE					0.161 pCi/g	YES	0.000 pCi/g	YES
			SS307393	SSG1766JE					0.169 pCi/g	YES	0.000 pCi/g	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	SMETCLP	POTASSIUM	66.900 B µg/L	1580.000 I mg/kg	YES	0.335 mg/kg	YES
			SS306993	SSG1762JE					3390.000 I mg/kg	YES	0.335 mg/kg	YES
			SS307093	SSG1763JE					1850.000 I mg/kg	YES	0.335 mg/kg	YES
			SS307393	SSG1766JE					1980.000 I mg/kg	YES	0.335 mg/kg	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	TRITIUM	-71.500 J pCi/L	-18.300 J pCi/L	NO	0.000 pCi/L	NA
			SS306993	SSG1762JE					-9.650 J pCi/L	NO	0.000 pCi/L	NA
			SS307093	SSG1763JE					39.560 J pCi/L	NO	0.000 pCi/L	NA
			SS307393	SSG1766JE					-108.000 J pCi/L	NO	0.000 pCi/L	NA
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	URANIUM-233,-234	0.086 J pCi/L	1.503 pCi/g	YES	0.000 pCi/g	YES
			SS306993	SSG1762JE					1.609 pCi/g	YES	0.000 pCi/g	YES
			SS307093	SSG1763JE					1.328 pCi/g	YES	0.000 pCi/g	YES
			SS307393	SSG1766JE					1.184 pCi/g	YES	0.000 pCi/g	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	URANIUM-235	0.046 J pCi/L	0.083 pCi/g	YES	0.000 pCi/g	YES
			SS306993	SSG1762JE					0.037 pCi/g	YES	0.000 pCi/g	YES
			SS307093	SSG1763JE					0.085 pCi/g	YES	0.000 pCi/g	YES
			SS307393	SSG1766JE					0.031 J pCi/g	YES	0.000 pCi/g	YES
SS306993	SSG1827JE	RNS	SS306893	SSG1761JE	05-JUL-94	TRADS	URANIUM-238	0.173 J pCi/L	1.592 pCi/g	YES	0.001 pCi/g	YES
			SS306993	SSG1762JE					1.567 pCi/g	YES	0.001 pCi/g	YES
			SS307093	SSG1763JE					1.547 pCi/g	YES	0.001 pCi/g	YES
			SS307393	SSG1766JE					1.426 pCi/g	YES	0.001 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	SMETCLP	ALUMINUM	118.000 µg/L	13200.000 mg/kg	YES	0.590 mg/kg	YES
			SS307193	SSG1764JE					7890.000 mg/kg	YES	0.590 mg/kg	YES
			SS307293	SSG1765JE					4880.000 mg/kg	YES	0.590 mg/kg	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	AMERICIUM-241	0.004 pCi/L	0.125 pCi/g	YES	0.000 pCi/g	YES
			SS307193	SSG1764JE					0.028 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS307293	SSG1765JE					0.046 pCi/g	YES	0.000 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	GROSS ALPHA	0.020 J pCi/L	22.150 pCi/g	YES	0.000 pCi/g	YES
			SS307193	SSG1764JE					19.760 pCi/g	YES	0.000 pCi/g	YES
			SS307293	SSG1765JE					29.700 pCi/g	YES	0.000 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	GROSS BETA	1.150 J pCi/L	34.440 pCi/g	YES	0.006 pCi/g	YES
			SS307193	SSG1764JE					39.760 pCi/g	YES	0.006 pCi/g	YES
			SS307293	SSG1765JE					38.380 pCi/g	YES	0.006 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	SMETCLP	LEAD	8.200 µg/L	16.400 mg/kg	YES	0.041 mg/kg	YES
			SS307193	SSG1764JE					65.600 mg/kg	YES	0.041 mg/kg	YES
			SS307293	SSG1765JE					12.000 mg/kg	YES	0.041 mg/kg	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	SMETCLP	MANGANESE	2.200 B µg/L	129.000 mg/kg	YES	0.011 mg/kg	YES
			SS307193	SSG1764JE					234.000 mg/kg	YES	0.011 mg/kg	YES
			SS307293	SSG1765JE					143.000 mg/kg	YES	0.011 mg/kg	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	SMETCLP	NICKEL	7.000 B µg/L	13.900 mg/kg	YES	0.035 mg/kg	YES
			SS307193	SSG1764JE					17.200 mg/kg	YES	0.035 mg/kg	YES
			SS307293	SSG1765JE					11.300 mg/kg	YES	0.035 mg/kg	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	PLUTONIUM-239/240	-0.002 J pCi/L	0.018 pCi/g	NO	0.000 pCi/g	NA
			SS307193	SSG1764JE					0.070 pCi/g	NO	0.000 pCi/g	NA
			SS307293	SSG1765JE					0.069 pCi/g	NO	0.000 pCi/g	NA
SS306793	SSG1829JE	RNS	SS307193	SSG1764JE	06-JUL-94	SMETCLP	SODIUM	125.000 B µg/L	117.000 B mg/kg	YES	0.625 mg/kg	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	TRITIUM	-13.000 J pCi/L	-30.900 J pCi/L	NO	0.000 pCi/L	NA
			SS307193	SSG1764JE					145.700 J pCi/L	NO	0.000 pCi/L	NA
			SS307293	SSG1765JE					67.650 J pCi/L	NO	0.000 pCi/L	NA
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	URANIUM-233,-234	0.400 pCi/L	1.518 pCi/g	YES	0.002 pCi/g	YES
			SS307193	SSG1764JE					1.833 pCi/g	YES	0.002 pCi/g	YES
			SS307293	SSG1765JE					2.040 pCi/g	YES	0.002 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	URANIUM-235	0.275 pCi/L	0.026 J pCi/g	YES	0.001 pCi/g	YES
			SS307193	SSG1764JE					0.093 pCi/g	YES	0.001 pCi/g	YES
			SS307293	SSG1765JE					0.053 J pCi/g	YES	0.001 pCi/g	YES
SS306793	SSG1829JE	RNS	SS306793	SSG1771JE	06-JUL-94	TRADS	URANIUM-238	0.315 pCi/L	1.461 pCi/g	YES	0.002 pCi/g	YES
			SS307193	SSG1764JE					1.808 pCi/g	YES	0.002 pCi/g	YES
			SS307293	SSG1765JE					1.543 pCi/g	YES	0.002 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	SMETCLP	ALUMINUM	25.900 B µg/L	10700.000 mg/kg	YES	0.130 mg/kg	YES
			SS307593	SSG1768JE					4950.000 mg/kg	YES	0.130 mg/kg	YES
			SS307693	SSG1769JE					12400.000 mg/kg	YES	0.130 mg/kg	YES
			SS307793	SSG1770JE					7370.000 mg/kg	YES	0.130 mg/kg	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	AMERICIUM-241	0.002 J pCi/L	0.121 pCi/g	YES	0.000 pCi/g	YES
			SS307593	SSG1768JE					0.197 pCi/g	YES	0.000 pCi/g	YES
			SS307693	SSG1769JE					0.188 pCi/g	YES	0.000 pCi/g	YES
			SS307793	SSG1770JE					0.092 pCi/g	YES	0.000 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	GROSS ALPHA	0.045 J pCi/L	34.750 pCi/g	YES	0.000 pCi/g	YES
			SS307593	SSG1768JE					27.540 pCi/g	YES	0.000 pCi/g	YES
			SS307693	SSG1769JE					15.780 pCi/g	YES	0.000 pCi/g	YES
			SS307793	SSG1770JE					33.460 pCi/g	YES	0.000 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	GROSS BETA	1.099 J pCi/L	48.540 pCi/g	YES	0.005 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS307593	SSG1768JE					47.820 pCi/g	YES	0.005 pCi/g	YES
			SS307693	SSG1769JE					34.510 pCi/g	YES	0.005 pCi/g	YES
			SS307793	SSG1770JE					42.790 pCi/g	YES	0.005 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	SMETCLP	LEAD	5.900 µg/L	118.000 mg/kg	YES	0.030 mg/kg	YES
			SS307593	SSG1768JE					165.000 mg/kg	YES	0.030 mg/kg	YES
			SS307693	SSG1769JE					44.300 mg/kg	YES	0.030 mg/kg	YES
			SS307793	SSG1770JE					40.600 mg/kg	YES	0.030 mg/kg	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	SMETCLP	NICKEL	5.100 B µg/L	52.400 mg/kg	YES	0.026 mg/kg	YES
			SS307593	SSG1768JE					7.400 B mg/kg	YES	0.026 mg/kg	YES
			SS307693	SSG1769JE					11.000 mg/kg	YES	0.026 mg/kg	YES
			SS307793	SSG1770JE					11.800 mg/kg	YES	0.026 mg/kg	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	PLUTONIUM-239/240	0.005 J pCi/L	0.152 pCi/g	YES	0.000 pCi/g	YES
			SS307593	SSG1768JE					0.026 pCi/g	YES	0.000 pCi/g	YES
			SS307693	SSG1769JE					0.045 pCi/g	YES	0.000 pCi/g	YES
			SS307793	SSG1770JE					0.080 J pCi/g	YES	0.000 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307593	SSG1768JE	07-JUL-94	SMETCLP	SODIUM	100.000 B µg/L	142.000 B mg/kg	YES	0.500 mg/kg	YES
			SS307693	SSG1769JE					139.000 B mg/kg	YES	0.500 mg/kg	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	TRITIUM	-26.000 J pCi/L	-21.200 J pCi/L	NO	0.000 pCi/L	NA
			SS307593	SSG1768JE					-51.100 J pCi/L	NO	0.000 pCi/L	NA
			SS307693	SSG1769JE					-57.900 J pCi/L	NO	0.000 pCi/L	NA
			SS307793	SSG1770JE					7.721 J pCi/L	NO	0.000 pCi/L	NA
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	URANIUM-233,-234	0.118 J pCi/L	1.596 pCi/g	YES	0.001 pCi/g	YES
			SS307593	SSG1768JE					1.769 pCi/g	YES	0.001 pCi/g	YES
			SS307693	SSG1769JE					1.881 pCi/g	YES	0.001 pCi/g	YES
			SS307793	SSG1770JE					1.656 pCi/g	YES	0.001 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	URANIUM-235	0.027 J pCi/L	0.092 pCi/g	YES	0.000 pCi/g	YES
			SS307593	SSG1768JE					0.066 pCi/g	YES	0.000 pCi/g	YES
			SS307693	SSG1769JE					0.049 pCi/g	YES	0.000 pCi/g	YES
			SS307793	SSG1770JE					0.081 pCi/g	YES	0.000 pCi/g	YES
SS307493	SSG1830JE	RNS	SS307493	SSG1767JE	07-JUL-94	TRADS	URANIUM-238	0.032 J pCi/L	1.843 pCi/g	YES	0.000 pCi/g	YES
			SS307593	SSG1768JE					1.650 pCi/g	YES	0.000 pCi/g	YES
			SS307693	SSG1769JE					2.140 pCi/g	YES	0.000 pCi/g	YES
			SS307793	SSG1770JE					1.506 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
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Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	AMERICIUM-241	18.400 J pCi/L	0.011 pCi/g	YES	0.092 pCi/g	NO
			SS301293	SSG1705JE					0.038 pCi/g	YES	0.092 pCi/g	NO
			SS301393	SSG1706JE					0.007 pCi/g	YES	0.092 pCi/g	NO
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	SMETCLP	BARIUM	30.600 B µg/L	78.600 mg/kg	YES	0.153 mg/kg	YES
			SS301293	SSG1705JE					138.000 mg/kg	YES	0.153 mg/kg	YES
			SS301393	SSG1706JE					54.600 mg/kg	YES	0.153 mg/kg	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	METADD	CESIUM	40.000 B µg/L	8.500 B mg/kg	YES	0.200 mg/kg	YES
			SS301393	SSG1706JE					8.000 B mg/kg	YES	0.200 mg/kg	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	GROSS ALPHA	0.050 J pCi/L	18.440 pCi/g	YES	0.000 pCi/g	YES
			SS301293	SSG1705JE					25.880 pCi/g	YES	0.000 pCi/g	YES
			SS301393	SSG1706JE					30.600 pCi/g	YES	0.000 pCi/g	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	GROSS BETA	0.267 J pCi/L	36.280 pCi/g	YES	0.001 pCi/g	YES
			SS301293	SSG1705JE					40.680 pCi/g	YES	0.001 pCi/g	YES
			SS301393	SSG1706JE					50.630 pCi/g	YES	0.001 pCi/g	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	SMETCLP	LEAD	1.900 B µg/L	13.100 mg/kg	YES	0.010 mg/kg	YES
			SS301293	SSG1705JE					38.200 mg/kg	YES	0.010 mg/kg	YES
			SS301393	SSG1706JE					10.000 mg/kg	YES	0.010 mg/kg	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	SMETCLP	POTASSIUM	80.200 B µg/L	2290.000 mg/kg	YES	0.401 mg/kg	YES
			SS301293	SSG1705JE					1590.000 mg/kg	YES	0.401 mg/kg	YES
			SS301393	SSG1706JE					1340.000 mg/kg	YES	0.401 mg/kg	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	SMETCLP	SODIUM	158.000 B µg/L	511.000 B mg/kg	YES	0.790 mg/kg	YES
			SS301293	SSG1705JE					129.000 B mg/kg	YES	0.790 mg/kg	YES
			SS301393	SSG1706JE					146.000 B mg/kg	YES	0.790 mg/kg	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	TRITIUM	8.666 J pCi/L	135.100 J pCi/L	YES	43.330 pCi/L	YES
			SS301293	SSG1705JE					76.790 J pCi/L	YES	43.330 pCi/L	YES
			SS301393	SSG1706JE					48.110 J pCi/L	YES	43.330 pCi/L	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	URANIUM-233,-234	0.035 J pCi/L	1.050 pCi/g	YES	0.000 pCi/g	YES
			SS301293	SSG1705JE					1.275 pCi/g	YES	0.000 pCi/g	YES
			SS301393	SSG1706JE					2.269 pCi/g	YES	0.000 pCi/g	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	URANIUM-235	0.004 J pCi/L	0.029 pCi/g	YES	0.000 pCi/g	YES
			SS301293	SSG1705JE					0.069 pCi/g	YES	0.000 pCi/g	YES
			SS301393	SSG1706JE					0.078 pCi/g	YES	0.000 pCi/g	YES
SS301393	SSG1800JE	RNS	SS301093	SSG1703JE	02-JUN-94	TRADS	URANIUM-238	0.012 J pCi/L	1.288 pCi/g	YES	0.000 pCi/g	YES
			SS301293	SSG1705JE					1.289 pCi/g	YES	0.000 pCi/g	YES
			SS301393	SSG1706JE					2.030 pCi/g	YES	0.000 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	SMETCLP	ALUMINUM	558.000 µg/L	8730.000 mg/kg	YES	2.790 mg/kg	YES
			SS300893	SSG1701JE					7380.000 mg/kg	YES	2.790 mg/kg	YES
			SS300993	SSG1702JE					11500.000 mg/kg	YES	2.790 mg/kg	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.010 pCi/g	YES	0.000 pCi/g	YES
			SS300893	SSG1701JE					0.012 pCi/g	YES	0.000 pCi/g	YES
			SS300993	SSG1702JE					0.012 pCi/g	YES	0.000 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	SMETCLP	BARIUM	11.200 B µg/L	162.000 mg/kg	YES	0.056 mg/kg	YES
			SS300893	SSG1701JE					63.500 mg/kg	YES	0.056 mg/kg	YES
			SS300993	SSG1702JE					70.500 mg/kg	YES	0.056 mg/kg	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	GROSS ALPHA	0.051 J pCi/L	23.560 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS300893	SSG1701JE					25.800 pCi/g	YES	0.000 pCi/g	YES
			SS300993	SSG1702JE					25.540 pCi/g	YES	0.000 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	GROSS BETA	0.395 J pCi/L	32.950 pCi/g	YES	0.002 pCi/g	YES
			SS300893	SSG1701JE					20.960 pCi/g	YES	0.002 pCi/g	YES
			SS300993	SSG1702JE					42.280 pCi/g	YES	0.002 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	SMETCLP	MANGANESE	17.400 µg/L	1240.000 mg/kg	YES	0.087 mg/kg	YES
			SS300893	SSG1701JE					172.000 mg/kg	YES	0.087 mg/kg	YES
			SS300993	SSG1702JE					213.000 mg/kg	YES	0.087 mg/kg	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	SMETCLP	POTASSIUM	73.200 B µg/L	1670.000 mg/kg	YES	0.366 mg/kg	YES
			SS300893	SSG1701JE					1390.000 mg/kg	YES	0.366 mg/kg	YES
			SS300993	SSG1702JE					2150.000 mg/kg	YES	0.366 mg/kg	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	SMETCLP	SODIUM	191.000 B µg/L	185.000 B mg/kg	YES	0.955 mg/kg	YES
			SS300893	SSG1701JE					145.000 B mg/kg	YES	0.955 mg/kg	YES
			SS300993	SSG1702JE					325.000 B mg/kg	YES	0.955 mg/kg	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	TRITIUM	0.962 J pCi/L	83.740 J pCi/L	YES	4.810 pCi/L	YES
			SS300893	SSG1701JE					206.900 J pCi/L	YES	4.810 pCi/L	YES
			SS300993	SSG1702JE					92.400 J pCi/L	YES	4.810 pCi/L	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	URANIUM-233,-234	0.053 J pCi/L	1.236 pCi/L	YES	0.000 pCi/L	YES
			SS300893	SSG1701JE					3.185 pCi/g	YES	0.000 pCi/g	YES
			SS300993	SSG1702JE					1.556 pCi/g	YES	0.000 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	URANIUM-235	0.045 J pCi/L	0.060 pCi/g	YES	0.000 pCi/g	YES
			SS300893	SSG1701JE					0.116 pCi/g	YES	0.000 pCi/g	YES
			SS300993	SSG1702JE					0.045 pCi/g	YES	0.000 pCi/g	YES
SS300893	SSG1801JE	RNS	SS300793	SSG1700JE	06-JUN-94	TRADS	URANIUM-238	0.049 J pCi/L	1.331 pCi/g	YES	0.000 pCi/g	YES
			SS300893	SSG1701JE					3.975 pCi/g	YES	0.000 pCi/g	YES
			SS300993	SSG1702JE					1.434 pCi/g	YES	0.000 pCi/g	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	ALUMINUM	739.000 µg/L	6470.000 mg/kg	YES	3.695 mg/kg	YES
			SS300493	SSG1697JE					8410.000 mg/kg	YES	3.695 mg/kg	YES
			SS300593	SSG1698JE					8310.000 mg/kg	YES	3.695 mg/kg	YES
			SS300693	SSG1699JE					4240.000 mg/kg	YES	3.695 mg/kg	YES
			SS301193	SSG1704JE					12300.000 mg/kg	YES	3.695 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.081 pCi/g	YES	0.000 pCi/g	YES
			SS300493	SSG1697JE					0.027 pCi/g	YES	0.000 pCi/g	YES
			SS300593	SSG1698JE					0.067 pCi/g	YES	0.000 pCi/g	YES
			SS300693	SSG1699JE					0.026 pCi/g	YES	0.000 pCi/g	YES
			SS301193	SSG1704JE					0.024 pCi/g	YES	0.000 pCi/g	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	BARIUM	12.000 B µg/L	57.500 mg/kg	YES	0.060 mg/kg	YES
			SS300493	SSG1697JE					76.900 mg/kg	YES	0.060 mg/kg	YES
			SS300593	SSG1698JE					71.900 mg/kg	YES	0.060 mg/kg	YES
			SS300693	SSG1699JE					39.000 B mg/kg	YES	0.060 mg/kg	YES
			SS301193	SSG1704JE					73.200 mg/kg	YES	0.060 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	CALCIUM	830.000 B µg/L	3710.000 mg/kg	YES	4.150 mg/kg	YES
			SS300493	SSG1697JE					3940.000 mg/kg	YES	4.150 mg/kg	YES
			SS300593	SSG1698JE					5920.000 mg/kg	YES	4.150 mg/kg	YES
			SS300693	SSG1699JE					2000.000 mg/kg	YES	4.150 mg/kg	YES

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Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 157.1

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS301193	SSG1704JE					5360.000 mg/kg	YES	4.150 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	GROSS BETA	-0.526 J pCi/L	51.230 pCi/g	NO	0.000 pCi/g	NA
			SS300493	SSG1697JE					43.220 pCi/g	NO	0.000 pCi/g	NA
			SS300593	SSG1698JE					41.430 pCi/g	NO	0.000 pCi/g	NA
			SS300693	SSG1699JE					47.820 pCi/g	NO	0.000 pCi/g	NA
			SS301193	SSG1704JE					41.100 pCi/g	NO	0.000 pCi/g	NA
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	MAGNESIUM	126.000 B µg/L	2260.000 mg/kg	YES	0.630 mg/kg	YES
			SS300493	SSG1697JE					1880.000 mg/kg	YES	0.630 mg/kg	YES
			SS300593	SSG1698JE					2530.000 mg/kg	YES	0.630 mg/kg	YES
			SS300693	SSG1699JE					1380.000 mg/kg	YES	0.630 mg/kg	YES
			SS301193	SSG1704JE					1960.000 mg/kg	YES	0.630 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	MANGANESE	22.000 µg/L	177.000 mg/kg	YES	0.110 mg/kg	YES
			SS300493	SSG1697JE					163.000 mg/kg	YES	0.110 mg/kg	YES
			SS300593	SSG1698JE					204.000 mg/kg	YES	0.110 mg/kg	YES
			SS300693	SSG1699JE					116.000 mg/kg	YES	0.110 mg/kg	YES
			SS301193	SSG1704JE					205.000 mg/kg	YES	0.110 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	POTASSIUM	105.000 B µg/L	1350.000 mg/kg	YES	0.525 mg/kg	YES
			SS300493	SSG1697JE					1430.000 mg/kg	YES	0.525 mg/kg	YES
			SS300593	SSG1698JE					1430.000 mg/kg	YES	0.525 mg/kg	YES
			SS300693	SSG1699JE					1100.000 mg/kg	YES	0.525 mg/kg	YES
			SS301193	SSG1704JE					1560.000 mg/kg	YES	0.525 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	SMETCLP	SODIUM	246.000 B µg/L	128.000 B mg/kg	YES	1.230 mg/kg	YES
			SS300493	SSG1697JE					138.000 B mg/kg	YES	1.230 mg/kg	YES
			SS300593	SSG1698JE					148.000 B mg/kg	YES	1.230 mg/kg	YES
			SS300693	SSG1699JE					143.000 B mg/kg	YES	1.230 mg/kg	YES
			SS301193	SSG1704JE					109.000 B mg/kg	YES	1.230 mg/kg	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	TRITIUM	-90.400 J pCi/L	-54.900 J pCi/L	NO	0.000 pCi/L	NA
			SS300493	SSG1697JE					-28.900 J pCi/L	NO	0.000 pCi/L	NA
			SS300593	SSG1698JE					-77.000 J pCi/L	NO	0.000 pCi/L	NA
			SS300693	SSG1699JE					-239.000 J pCi/L	NO	0.000 pCi/L	NA
			SS301193	SSG1704JE					-30.800 J pCi/L	NO	0.000 pCi/L	NA
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	URANIUM-233,-234	0.076 J pCi/L	1.422 pCi/g	YES	0.000 pCi/g	YES
			SS300493	SSG1697JE					3.242 pCi/g	YES	0.000 pCi/g	YES
			SS300593	SSG1698JE					1.980 pCi/g	YES	0.000 pCi/g	YES
			SS300693	SSG1699JE					1.571 pCi/g	YES	0.000 pCi/g	YES
			SS301193	SSG1704JE					0.990 pCi/g	YES	0.000 pCi/g	YES
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	URANIUM-235	0.044 J pCi/L	0.061 pCi/g	YES	0.000 pCi/g	YES
			SS300493	SSG1697JE					0.122 pCi/g	YES	0.000 pCi/g	YES
			SS300593	SSG1698JE					0.095 J pCi/g	YES	0.000 pCi/g	YES
			SS300693	SSG1699JE					0.049 J pCi/g	YES	0.000 pCi/g	YES
			SS301193	SSG1704JE					0.050 J pCi/g	YES	0.000 pCi/g	YES

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Comparison of Environmental Samples with Equipment Rinse Blanks
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IHSS 157.1													
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results		Evaluation Required	Threshold Value	True Detect for Sample Results?
SS300493	SSG1803JE	RNS	SS300393	SSG1696JE	07-JUN-94	TRADS	URANIUM-238	0.032 J pCi/L	1.737	pCi/g	YES	0.000 pCi/g	YES
			SS300493	SSG1697JE					5.265	pCi/g	YES	0.000 pCi/g	YES
			SS300593	SSG1698JE					1.788	pCi/g	YES	0.000 pCi/g	YES
			SS300693	SSG1699JE					1.480	pCi/g	YES	0.000 pCi/g	YES
			SS301193	SSG1704JE					1.436	pCi/g	YES	0.000 pCi/g	YES

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Comparison of Environmental Samples with Equipment Rinse Blanks
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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	SMETCLP	COPPER	5.000 B µg/L	14.700 mg/kg	YES	0.025 mg/kg	YES
			SS304193	SSG1734JE					17.300 mg/kg	YES	0.025 mg/kg	YES
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	GROSS ALPHA	0.074 J pCi/L	26.500 pCi/g	YES	0.000 pCi/g	YES
			SS304193	SSG1734JE					22.830 pCi/g	YES	0.000 pCi/g	YES
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	GROSS BETA	0.154 J pCi/L	41.920 pCi/g	YES	0.001 pCi/g	YES
			SS304193	SSG1734JE					45.360 pCi/g	YES	0.001 pCi/g	YES
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	PLUTONIUM-239/240	-0.001 J pCi/L	0.080 pCi/g	NO	0.000 pCi/g	NA
			SS304193	SSG1734JE					0.193 pCi/g	NO	0.000 pCi/g	NA
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	SMETCLP	POTASSIUM	529.000 B µg/L	1320.000 mg/kg	YES	2.645 mg/kg	YES
			SS304193	SSG1734JE					1210.000 mg/kg	YES	2.645 mg/kg	YES
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	TRITIUM	-41.600 J pCi/L	43.280 J pCi/L	NO	0.000 pCi/L	NA
			SS304193	SSG1734JE					-54.800 J pCi/L	NO	0.000 pCi/L	NA
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	URANIUM-235	0.008 J pCi/L	0.067 pCi/g	YES	0.000 pCi/g	YES
			SS304193	SSG1734JE					0.082 pCi/g	YES	0.000 pCi/g	YES
SS304193	SSG1818JE	RNS	SS304093	SSG1733JE	22-JUN-94	TRADS	URANIUM-238	0.066 J pCi/L	1.609 pCi/g	YES	0.000 pCi/g	YES
			SS304193	SSG1734JE					4.132 pCi/g	YES	0.000 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	AMERICIUM-241	0.008 pCi/L	0.032 pCi/g	YES	0.000 pCi/g	YES
			SS304393	SSG1736JE					0.042 pCi/g	YES	0.000 pCi/g	YES
			SS304493	SSG1737JE					0.077 pCi/g	YES	0.000 pCi/g	YES
			SS304593	SSG1738JE					0.120 pCi/g	YES	0.000 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	SMETCLP	COPPER	3.800 B µg/L	9.100 mg/kg	YES	0.019 mg/kg	YES
			SS304393	SSG1736JE					15.300 mg/kg	YES	0.019 mg/kg	YES
			SS304493	SSG1737JE					90.200 mg/kg	YES	0.019 mg/kg	YES
			SS304593	SSG1738JE					287.000 mg/kg	YES	0.019 mg/kg	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	GROSS ALPHA	-0.004 J pCi/L	21.330 pCi/g	NO	0.000 pCi/g	NA
			SS304393	SSG1736JE					18.900 pCi/g	NO	0.000 pCi/g	NA
			SS304493	SSG1737JE					22.870 pCi/g	NO	0.000 pCi/g	NA
			SS304593	SSG1738JE					25.720 pCi/g	NO	0.000 pCi/g	NA
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	GROSS BETA	0.899 J pCi/L	34.080 pCi/g	YES	0.004 pCi/g	YES
			SS304393	SSG1736JE					33.990 pCi/g	YES	0.004 pCi/g	YES
			SS304493	SSG1737JE					40.640 pCi/g	YES	0.004 pCi/g	YES
			SS304593	SSG1738JE					37.790 pCi/g	YES	0.004 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	PLUTONIUM-239/240	0.002 J pCi/L	0.012 J pCi/g	YES	0.000 pCi/g	YES
			SS304393	SSG1736JE					0.180 pCi/g	YES	0.000 pCi/g	YES
			SS304493	SSG1737JE					0.139 pCi/g	YES	0.000 pCi/g	YES
			SS304593	SSG1738JE					0.642 pCi/g	YES	0.000 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	TRITIUM	-64.700 J pCi/L	184.600 J pCi/L	NO	0.000 pCi/L	NA
			SS304393	SSG1736JE					-52.900 J pCi/L	NO	0.000 pCi/L	NA
			SS304493	SSG1737JE					6.732 J pCi/L	NO	0.000 pCi/L	NA
			SS304593	SSG1738JE					-26.900 J pCi/L	NO	0.000 pCi/L	NA
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	URANIUM-233,-234	0.011 J pCi/L	1.020 pCi/g	YES	0.000 pCi/g	YES
			SS304393	SSG1736JE					0.914 pCi/g	YES	0.000 pCi/g	YES
			SS304493	SSG1737JE					1.224 pCi/g	YES	0.000 pCi/g	YES
			SS304593	SSG1738JE					1.342 pCi/g	YES	0.000 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	URANIUM-235	0.018 J pCi/L	0.064 pCi/g	YES	0.000 pCi/g	YES

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QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS304393	SSG1736JE					0.372 pCi/g	YES	0.000 pCi/g	YES
			SS304493	SSG1737JE					0.073 pCi/g	YES	0.000 pCi/g	YES
			SS304593	SSG1738JE					0.025 J pCi/g	YES	0.000 pCi/g	YES
SS304393	SSG1819JE	RNS	SS304293	SSG1735JE	23-JUN-94	TRADS	URANIUM-238	0.035 J pCi/L	1.019 pCi/g	YES	0.000 pCi/g	YES
			SS304393	SSG1736JE					0.863 pCi/g	YES	0.000 pCi/g	YES
			SS304493	SSG1737JE					1.365 pCi/g	YES	0.000 pCi/g	YES
			SS304593	SSG1738JE					1.191 pCi/g	YES	0.000 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	AMERICIUM-241	0.002 J pCi/L	0.009 pCi/g	YES	0.000 pCi/g	YES
			SS303793	SSG1730JE					0.008 pCi/g	YES	0.000 pCi/g	YES
			SS304693	SSG1739JE					0.009 pCi/g	YES	0.000 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	SMETCLP	COPPER	3.300 B µg/L	15.100 mg/kg	YES	0.017 mg/kg	YES
			SS303793	SSG1730JE					9.900 mg/kg	YES	0.017 mg/kg	YES
			SS304693	SSG1739JE					11.900 mg/kg	YES	0.017 mg/kg	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	GROSS ALPHA	0.073 J pCi/L	32.280 pCi/g	YES	0.000 pCi/g	YES
			SS303793	SSG1730JE					31.750 pCi/g	YES	0.000 pCi/g	YES
			SS304693	SSG1739JE					18.930 pCi/g	YES	0.000 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	GROSS BETA	1.161 J pCi/L	50.640 pCi/g	YES	0.006 pCi/g	YES
			SS303793	SSG1730JE					47.360 pCi/g	YES	0.006 pCi/g	YES
			SS304693	SSG1739JE					34.780 pCi/g	YES	0.006 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	TRITIUM	26.800 J pCi/L	-75.900 J pCi/L	YES	134.000 pCi/L	NO
			SS303793	SSG1730JE					144.200 J pCi/L	YES	134.000 pCi/L	YES
			SS304693	SSG1739JE					11.540 J pCi/L	YES	134.000 pCi/L	NO
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	URANIUM-233,-234	0.043 J pCi/L	1.639 pCi/g	YES	0.000 pCi/g	YES
			SS303793	SSG1730JE					1.846 pCi/g	YES	0.000 pCi/g	YES
			SS304693	SSG1739JE					1.099 pCi/g	YES	0.000 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	URANIUM-235	0.026 J pCi/L	0.096 pCi/g	YES	0.000 pCi/g	YES
			SS303793	SSG1730JE					0.080 pCi/g	YES	0.000 pCi/g	YES
			SS304693	SSG1739JE					0.043 pCi/g	YES	0.000 pCi/g	YES
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	URANIUM-238	0.047 J pCi/L	1.584 pCi/g	YES	0.000 pCi/g	YES
			SS303793	SSG1730JE					1.870 pCi/g	YES	0.000 pCi/g	YES
			SS304693	SSG1739JE					1.160 pCi/g	YES	0.000 pCi/g	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	AMERICIUM-241	0.001 J pCi/L	0.184 pCi/g	YES	0.000 pCi/g	YES
			SS303993	SSG1732JE					0.012 pCi/g	YES	0.000 pCi/g	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	SMETCLP	COPPER	2.500 B µg/L	10.000 mg/kg	YES	0.013 mg/kg	YES
			SS303993	SSG1732JE					21.700 mg/kg	YES	0.013 mg/kg	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	GROSS ALPHA	-0.062 J pCi/L	28.650 pCi/g	NO	0.000 pCi/g	NA
			SS303993	SSG1732JE					16.720 pCi/g	NO	0.000 pCi/g	NA
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	GROSS BETA	0.368 J pCi/L	49.460 pCi/g	YES	0.002 pCi/g	YES
			SS303993	SSG1732JE					33.120 pCi/g	YES	0.002 pCi/g	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	PLUTONIUM-239/240	-0.002 J pCi/L	0.006 pCi/g	NO	0.000 pCi/g	NA
			SS303993	SSG1732JE					0.024 pCi/g	NO	0.000 pCi/g	NA
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	SMETCLP	POTASSIUM	141.000 B µg/L	1760.000 mg/kg	YES	0.705 mg/kg	YES
			SS303993	SSG1732JE					1390.000 mg/kg	YES	0.705 mg/kg	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	TRITIUM	-77.200 J pCi/L	52.190 J pCi/L	NO	0.000 pCi/L	NA
			SS303993	SSG1732JE					25.130 J pCi/L	NO	0.000 pCi/L	NA

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 158													
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results		Real Sample Results		Evaluation Required	Threshold Value	True Detect for Sample Results?
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	URANIUM-233,-234	0.252	pCi/L	1.753	pCi/g	YES	0.001 pCi/g	YES
			SS303993	SSG1732JE						1.059	pCi/g	YES	0.001 pCi/g	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	URANIUM-235	0.227	pCi/L	0.125	pCi/g	YES	0.001 pCi/g	YES
			SS303993	SSG1732JE						0.038	pCi/g	YES	0.001 pCi/g	YES
SS303993	SSG1822JE	RNS	SS303893	SSG1731JE	28-JUN-94	TRADS	URANIUM-238	0.807	pCi/L	1.570	pCi/g	YES	0.004 pCi/g	YES
			SS303993	SSG1732JE						1.007	pCi/g	YES	0.004 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 171

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	AMERICIUM-241	18.400 J pCi/L	0.011 pCi/g	YES	0.092 pCi/g	NO
			SS301993	SSG1712JE					0.015 pCi/g	YES	0.092 pCi/g	NO
			SS302393	SSG1716JE					0.031 pCi/g	YES	0.092 pCi/g	NO
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	GROSS ALPHA	0.030 J pCi/L	17.440 pCi/g	YES	0.000 pCi/g	YES
			SS301993	SSG1712JE					19.330 pCi/g	YES	0.000 pCi/g	YES
			SS302393	SSG1716JE					18.460 pCi/g	YES	0.000 pCi/g	YES
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	GROSS BETA	0.088 J pCi/L	30.110 pCi/g	YES	0.000 pCi/g	YES
			SS301993	SSG1712JE					45.930 pCi/g	YES	0.000 pCi/g	YES
			SS302393	SSG1716JE					44.370 pCi/g	YES	0.000 pCi/g	YES
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	PLUTONIUM-239/240	0.001 J pCi/L	0.039 pCi/g	YES	0.000 pCi/g	YES
			SS301993	SSG1712JE					0.037 pCi/g	YES	0.000 pCi/g	YES
			SS302393	SSG1716JE					0.048 pCi/g	YES	0.000 pCi/g	YES
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	TRITIUM	65.410 J pCi/L	59.660 J pCi/L	YES	327.050 pCi/L	NO
			SS301993	SSG1712JE					114.500 J pCi/L	YES	327.050 pCi/L	NO
			SS302393	SSG1716JE					40.430 J pCi/L	YES	327.050 pCi/L	NO
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	URANIUM-233,-234	-0.035 J pCi/L	1.181 pCi/g	NO	0.000 pCi/g	NA
			SS301993	SSG1712JE					1.232 pCi/g	NO	0.000 pCi/g	NA
			SS302393	SSG1716JE					1.256 pCi/g	NO	0.000 pCi/g	NA
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	URANIUM-235	0.054 J pCi/L	0.052 pCi/g	YES	0.000 pCi/g	YES
			SS301993	SSG1712JE					0.048 J pCi/g	YES	0.000 pCi/g	YES
			SS302393	SSG1716JE					0.012 J pCi/g	YES	0.000 pCi/g	YES
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	URANIUM-238	0.114 J pCi/L	1.376 pCi/g	YES	0.001 pCi/g	YES
			SS301993	SSG1712JE					1.029 pCi/g	YES	0.001 pCi/g	YES
			SS302393	SSG1716JE					1.074 pCi/g	YES	0.001 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	AMERICIUM-241	0.003 pCi/L	0.029 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					0.097 pCi/g	YES	0.000 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	GROSS ALPHA	0.092 J pCi/L	14.960 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					17.420 pCi/g	YES	0.000 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	GROSS BETA	0.775 J pCi/L	38.680 pCi/g	YES	0.004 pCi/g	YES
			SS302493	SSG1717JE					38.100 pCi/g	YES	0.004 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	PLUTONIUM-239/240	0.004 J pCi/L	0.127 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					0.135 pCi/g	YES	0.000 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	TRITIUM	-82.700 J pCi/L	30.790 J pCi/L	NO	0.000 pCi/L	NA
			SS302493	SSG1717JE					-1.920 J pCi/L	NO	0.000 pCi/L	NA
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	URANIUM-233,-234	0.081 J pCi/L	1.143 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					1.094 pCi/g	YES	0.000 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	URANIUM-235	0.058 J pCi/L	0.041 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					0.044 J pCi/g	YES	0.000 pCi/g	YES
SS301793	SSG1807JE	RNS	SS301793	SSG1710JE	09-JUN-94	TRADS	URANIUM-238	0.022 J pCi/L	0.950 pCi/g	YES	0.000 pCi/g	YES
			SS302493	SSG1717JE					0.996 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 186												
QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	AMERICIUM-241	18.400 J pCi/L	1.045 pCi/g	NO	0.000 pCi/g	NA
			SS305493	SSG1747JE					0.166 pCi/g	NO	0.000 pCi/g	NA
			SS305593	SSG1748JE					1.464 pCi/g	NO	0.000 pCi/g	NA
			SS305693	SSG1749JE					0.221 pCi/g	NO	0.000 pCi/g	NA
			SS305793	SSG1750JE					0.076 pCi/g	NO	0.000 pCi/g	NA
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	GROSS ALPHA	-0.004 J pCi/L	26.490 pCi/g	NO	0.000 pCi/g	NA
			SS305493	SSG1747JE					25.890 pCi/g	NO	0.000 pCi/g	NA
			SS305593	SSG1748JE					30.650 pCi/g	NO	0.000 pCi/g	NA
			SS305693	SSG1749JE					24.120 pCi/g	NO	0.000 pCi/g	NA
			SS305793	SSG1750JE					20.720 pCi/g	NO	0.000 pCi/g	NA
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	GROSS BETA	-0.146 J pCi/L	58.250 pCi/g	NO	0.000 pCi/g	NA
			SS305493	SSG1747JE					39.250 pCi/g	NO	0.000 pCi/g	NA
			SS305593	SSG1748JE					40.860 pCi/g	NO	0.000 pCi/g	NA
			SS305693	SSG1749JE					38.870 pCi/g	NO	0.000 pCi/g	NA
			SS305793	SSG1750JE					44.980 pCi/g	NO	0.000 pCi/g	NA
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	TRITIUM	-43.500 J pCi/L	4.812 J pCi/L	NO	0.000 pCi/L	NA
			SS305493	SSG1747JE					16.360 J pCi/L	NO	0.000 pCi/L	NA
			SS305593	SSG1748JE					-17.300 J pCi/L	NO	0.000 pCi/L	NA
			SS305693	SSG1749JE					2.886 J pCi/L	NO	0.000 pCi/L	NA
			SS305793	SSG1750JE					-80.800 J pCi/L	NO	0.000 pCi/L	NA
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	URANIUM-233,-234	0.135 J pCi/L	1.662 pCi/g	YES	0.001 pCi/g	YES
			SS305493	SSG1747JE					1.645 pCi/g	YES	0.001 pCi/g	YES
			SS305593	SSG1748JE					1.361 pCi/g	YES	0.001 pCi/g	YES
			SS305693	SSG1749JE					1.323 pCi/g	YES	0.001 pCi/g	YES
			SS305793	SSG1750JE					1.231 pCi/g	YES	0.001 pCi/g	YES
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	URANIUM-235	0.052 J pCi/L	0.087 pCi/g	YES	0.000 pCi/g	YES
			SS305493	SSG1747JE					0.075 pCi/g	YES	0.000 pCi/g	YES
			SS305593	SSG1748JE					0.105 pCi/g	YES	0.000 pCi/g	YES
			SS305693	SSG1749JE					0.058 pCi/g	YES	0.000 pCi/g	YES
			SS305793	SSG1750JE					0.083 pCi/g	YES	0.000 pCi/g	YES
SS305793	SSG1815JE	RNS	SS305393	SSG1746JE	20-JUN-94	TRADS	URANIUM-238	0.020 J pCi/L	3.530 pCi/g	YES	0.000 pCi/g	YES
			SS305493	SSG1747JE					1.517 pCi/g	YES	0.000 pCi/g	YES
			SS305593	SSG1748JE					1.908 pCi/g	YES	0.000 pCi/g	YES
			SS305693	SSG1749JE					1.684 pCi/g	YES	0.000 pCi/g	YES
			SS305793	SSG1750JE					1.377 pCi/g	YES	0.000 pCi/g	YES
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	AMERICIUM-241	0.004 J pCi/L	0.018 pCi/g	YES	0.000 pCi/g	YES
			SS304893	SSG1741JE					0.456 pCi/g	YES	0.000 pCi/g	YES
			SS304993	SSG1742JE					0.178 pCi/g	YES	0.000 pCi/g	YES
			SS305093	SSG1743JE					0.168 pCi/g	YES	0.000 pCi/g	YES
			SS305193	SSG1744JE					0.057 pCi/g	YES	0.000 pCi/g	YES
			SS305293	SSG1745JE					0.078 pCi/g	YES	0.000 pCi/g	YES
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	GROSS ALPHA	-0.088 J pCi/L	21.240 pCi/g	NO	0.000 pCi/g	NA
			SS304893	SSG1741JE					23.650 pCi/g	NO	0.000 pCi/g	NA
			SS304993	SSG1742JE					26.720 pCi/g	NO	0.000 pCi/g	NA
			SS305093	SSG1743JE					20.480 pCi/g	NO	0.000 pCi/g	NA

TABLE D-7
OU13 Surface-Soil Samples
Comparison of Environmental Samples with Equipment Rinse Blanks
Rocky Flats Environmental Technology Site

IHSS 186

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value	True Detect for Sample Results?
			SS305193	SSG1744JE					24.350 pCi/g	NO	0.000 pCi/g	NA
			SS305293	SSG1745JE					17.460 pCi/g	NO	0.000 pCi/g	NA
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	GROSS BETA	1.205 J pCi/L	32.530 pCi/g	YES	0.006 pCi/g	YES
			SS304893	SSG1741JE					41.460 pCi/g	YES	0.006 pCi/g	YES
			SS304993	SSG1742JE					36.160 pCi/g	YES	0.006 pCi/g	YES
			SS305093	SSG1743JE					41.190 pCi/g	YES	0.006 pCi/g	YES
			SS305193	SSG1744JE					57.550 pCi/g	YES	0.006 pCi/g	YES
			SS305293	SSG1745JE					33.440 pCi/g	YES	0.006 pCi/g	YES
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	PLUTONIUM-239/240	-0.001 J pCi/L	0.090 pCi/g	NO	0.000 pCi/g	NA
			SS304893	SSG1741JE					0.425 pCi/g	NO	0.000 pCi/g	NA
			SS304993	SSG1742JE					0.111 pCi/g	NO	0.000 pCi/g	NA
			SS305093	SSG1743JE					0.211 pCi/g	NO	0.000 pCi/g	NA
			SS305193	SSG1744JE					0.084 pCi/g	NO	0.000 pCi/g	NA
			SS305293	SSG1745JE					0.315 pCi/g	NO	0.000 pCi/g	NA
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	TRITIUM	-88.800 J pCi/L	127.000 J pCi/L	NO	0.000 pCi/L	NA
			SS304893	SSG1741JE					124.100 J pCi/L	NO	0.000 pCi/L	NA
			SS304993	SSG1742JE					-25.000 J pCi/L	NO	0.000 pCi/L	NA
			SS305093	SSG1743JE					-69.300 J pCi/L	NO	0.000 pCi/L	NA
			SS305193	SSG1744JE					-97.200 J pCi/L	NO	0.000 pCi/L	NA
			SS305293	SSG1745JE					100.000 J pCi/L	NO	0.000 pCi/L	NA
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	URANIUM-233,-234	0.084 J pCi/L	1.409 pCi/g	YES	0.000 pCi/g	YES
			SS304893	SSG1741JE					1.265 pCi/g	YES	0.000 pCi/g	YES
			SS304993	SSG1742JE					1.164 pCi/g	YES	0.000 pCi/g	YES
			SS305093	SSG1743JE					1.369 pCi/g	YES	0.000 pCi/g	YES
			SS305193	SSG1744JE					1.594 pCi/g	YES	0.000 pCi/g	YES
			SS305293	SSG1745JE					1.147 pCi/g	YES	0.000 pCi/g	YES
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	URANIUM-235	0.004 J pCi/L	0.101 pCi/g	YES	0.000 pCi/g	YES
			SS304893	SSG1741JE					0.078 pCi/g	YES	0.000 pCi/g	YES
			SS304993	SSG1742JE					0.083 pCi/g	YES	0.000 pCi/g	YES
			SS305093	SSG1743JE					0.084 pCi/g	YES	0.000 pCi/g	YES
			SS305193	SSG1744JE					0.086 pCi/g	YES	0.000 pCi/g	YES
			SS305293	SSG1745JE					0.057 pCi/g	YES	0.000 pCi/g	YES
SS305093	SSG1817JE	RNS	SS304793	SSG1740JE	21-JUN-94	TRADS	URANIUM-238	0.052 J pCi/L	1.420 pCi/g	YES	0.000 pCi/g	YES
			SS304893	SSG1741JE					1.973 pCi/g	YES	0.000 pCi/g	YES
			SS304993	SSG1742JE					2.521 pCi/g	YES	0.000 pCi/g	YES
			SS305093	SSG1743JE					3.330 pCi/g	YES	0.000 pCi/g	YES
			SS305193	SSG1744JE					2.086 pCi/g	YES	0.000 pCi/g	YES
			SS305293	SSG1745JE					1.204 pCi/g	YES	0.000 pCi/g	YES

TABLE D-7
OU13 Surface-Soil Samples
Summary of False Detects Due to Analyte Presence in Rinsate Sample
Rocky Flats Environmental Technology Site

QC Sample Location	QC Sample ID Number	Field QC Type	Real Sample Location	Associated Real Sample ID	Sample Collection Date	Analytical Parameter	Analyte	Field QC Results	Real Sample Results	Evaluation Required	Threshold Value		True Detect for Sample Results?
IHSS 117.1													
NONE													
IHSS 117.2													
NONE													
IHSS 117.3													
NONE													
IHSS 128													
SS302293	SSG1810JE	RNS	SS302293	SSG1715JE	13-JUN-94	TRADS	TRITIUM	49.980 X pCi/L	191.500 J pCi/L	YES	249.900	pCi/L	NO
IHSS 134N													
NONE													
IHSS 134S													
SS301593	SSG1809JE	RNS	SS301493	SSG1707JE	13-JUN-94	TRADS	TRITIUM	87.470 X pCi/L	53.880 J pCi/L	YES	437.350	pCi/L	NO
			SS301593	SSG1708JE					122.200 J pCi/L	YES	437.350	pCi/L	NO
			SS301693	SSG1709JE					161.700 J pCi/L	YES	437.350	pCi/L	NO
IHSS 148													
NONE													
IHSS 167.1													
NONE													
IHSS 168													
SS304693	SSG1821JE	RNS	SS303693	SSG1729JE	27-JUN-94	TRADS	TRITIUM	26.800 J pCi/L	-75.900 J pCi/L	YES	134.000	pCi/L	NO
			SS304693	SSG1739JE					11.540 J pCi/L	YES	134.000	pCi/L	NO
IHSS 171													
SS302393	SSG1805JE	RNS	SS301893	SSG1711JE	08-JUN-94	TRADS	TRITIUM	65.410 J pCi/L	59.660 J pCi/L	YES	327.050	pCi/L	NO
			SS301993	SSG1712JE					114.500 J pCi/L	YES	327.050	pCi/L	NO
			SS302393	SSG1716JE					40.430 J pCi/L	YES	327.050	pCi/L	NO
IHSS 186													
NONE													

Notes:

B = Laboratory Qualifier: detected in blank
I = Interference
IHSS = Individual Hazardous Substance Site
J = Laboratory Qualifier: estimated value
mg/kg = milligrams per kilogram
NA = not applicable
OU = Operable Unit
pCi/g = picocuries per gram
pCi/L = Picocuries per liter
QC = quality control
RNS = rinsate
X = result by calculation defined in GRRASP
µg/L = micrograms per liter

APPENDIX E

Soil-Gas Analytical Data Tables

E-1 Soil Gas Summary Results (Includes All Data Except Rejected Data)

E-2 Rejected Data

E-3 Soil Gas Detected Results

E-4 Analytes Detected by IHSS

APPENDIX E LEGEND

B =	analyte found in blank - sample result adjusted
DUP =	duplicate - identified top of column
EB =	equipment blank - identified top of column
GC/MS =	gas chromatograph/mass spectrograph
J =	laboratory qualifier: estimated value
ppm =	parts per million
QC =	quality control
R =	end of sample identification number indicates resampled
µg/L =	micrograms per liter
* =	100 ml dilution
** =	10 ml dilution
@ =	analytical result used
▒▒▒▒ =	indicates choice between multiple results

APPENDIX E-1

Soil-Gas Environmental Sample Results
(Includes Duplicates and Equipment Blanks)

Order of Data by IHSS

117.1
197
117.2
158
117.3
152
134N
128
171
134S
148
157.1
186

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG120194	SG120294	SG120394	SG120494	SG120494	SG120594	SG120994	SG121094
Sample Identification Number:	SGG2051JE*R	SGG2052JER	SGG2053JER	SGG1204JE	SGG1960JE	SGG1205JE	SGG2054JER	SGG2027JE
Date Sampled:	2/8/95	2/8/95	2/8/95	12/1/94	12/1/94	12/1/94	2/10/95	2/15/95
Test Group:GC/MS Units: µg/L					EB			DUP
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	0.03	0.2	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	0.06	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	< .01	0.01	< .01	< .01	< .01	< .01	0.01
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .4	0.16	0.34	< .04	< .04	< .04	0.08	0.07
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .3	0.78	< .03	< .03	0.12	0.17	< .03	0.45
Benzene	0.6	.25 B	0.37	0.23	< .03	0.04	0.76	0.12
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .4	0.24	0.12	0.12	< .04	< .04	0.18	< .04
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .3	0.04	< .03	< .03	0.07	< .03	0.05	0.1
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .1	0.03	0.05	0.03	< .01	0.02	0.03	0.02
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	18	2.2	1.2	< .02	< .02	< .02	0.35	0.1
Toluene	< 1.11	0.16	0.2	0.18	< .11	< .11	0.26	< .11
Total Xylenes	< .4	< .04	< .04	< .04	< .04	< .01	< .04	< .04
Trichloroethene	< .3	< .03	< .03	< .03	< .03	0.5	0.44	< .03
Trichlorofluoromethane	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .71	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< .04	< .04	< .04	< 2	< 2
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	0.02	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .1	0.02	0.02	< .01	< .01	0.01	0.01	0.01
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG121094	SG121194	SG121294	SG121494	SG121594	SG121594	SG121694	SG121794
Sample Identification Number:	SGG2055JER	SGG2056JER	SGG2057JER	SGG2059JER	SGG1949JE	SGG2060JE	SGG2061JER	SGG2062JER
Date Sampled:	2/15/95	2/8/95	2/8/95	2/13/95	11/18/94	2/8/95	2/8/95	2/15/95
Test Group:GC/MS Units: µg/L					EB			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	0.01	0.01	0.02	< .01	0.02	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.09	0.08	0.14	< .04	< .04	0.29	0.13	0.05
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.77	< .03	0.51	0.27	< .03	1.1	0.6	< .03
Benzene	0.15	.29 B	.15 B	0.1	< .03	0.28	.2 B	0.4
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	0.03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.05	0.13	0.05	< .04	< .04	0.08	0.11	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	0.04	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	0.35	< .03	< .03	0.04	0.04	0.08
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.04
Ethylbenzene	0.02	0.04	0.03	0.02	< .01	0.03	0.01	0.07
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.08	0.05	0.1	1.5	< .02	3.1	0.59	0.13
Toluene	< .11	0.15	< .11	< .11	< .11	0.17	< .11	0.24
Total Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	0.06	< .03	0.22	0.04	< .03
Trichlorofluoromethane	< .05	< .05	0.46	0.12	0.56	< .05	0.06	1.6
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< .04	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.02	0.03	0.02	0.01	< .01	0.03	< .01	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG121894	SG121994	SG121994	SG122094	SG122294	SG122394	SG122494	SG122594
Sample Identification Number:	SGG2063JER	SGG2030JE	SGG2064JER	SGG2065JER	SGG1222JE	SGG1223JE	SGG2066JE	SGG1225JE
Date Sampled:	2/15/95	2/15/95	2/15/95	2/14/95	11/30/94	11/30/94	3/22/95	11/30/94
Test Group:GC/MS Units: µg/L		EB						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	0.07	< .03	0.35	0.56	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	0.12	0.2	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	0.02	< .01	0.03	0.02	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.08	< .04	0.14	0.1	< .04	0.08	0.07	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	0.04	< .03	< .03	< .03	0.29	1.5	< .03
Benzene	0.68	< .24	.39 B	0.42	0.24	0.14	0.85	0.12
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.26	< .04	0.19	0.08	< .04	< .04	0.06	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.07	0.12	0.13	< .03	< .03	< .03	0.04	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	0.05	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.01	< .01	0.03	0.03	0.04	0.03	0.08	0.03
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.36	0.04	0.03	0.04	< .02	< .02	< .02	< .02
Toluene	0.13	< .11	0.18	0.19	0.18	< .11	0.57	0.12
Total Xylenes	< .04	< .04	< .04	< .04	< .02	0.09	0.11	< .02
Trichloroethene	1.6	< .03	2.6	0.21	< .03	< .03	< .03	< .03
Trichlorofluoromethane	1.4	< .05	0.05	< .05	< .05	0.18	0.14	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< .04	0.06	0.08	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	0.01	0.02	0.02	0.03	0.03	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG122694	SG122694	SG122794	SG122894	SG122994	SG122994	SG123094	SG123194
Sample Identification Number:	SGG1958JE	SGG1226JE	SGG1227JE	SGG1228JE	SGG2026JE	SGG2067JER	SGG1230JE	SGG2068JER
Date Sampled:	11/30/94	11/30/94	11/30/94	11/21/94	2/13/95	2/13/95	11/18/94	2/8/95
Test Group:GC/MS Units: µg/L	EB				EB			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	0.03	< .03	< .03	0.57	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	0.21	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	0.01	0.02	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	0.06	0.05	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.03	< .03	< .03	0.13	< .03	< .03	< .03	0.11
Benzene	< .03	0.31	0.12	0.14	0.05	0.27	0.26	0.03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	0.06	< .04	< .04	< .04	0.05	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .03	0.13	< .03	0.1	0.21
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.06	0.02	0.03	< .01	0.02	0.01	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.02	< .02	< .02	0.15	0.2	0.04	0.24	0.6
Toluene	< .11	0.25	< .11	< .11	< .11	0.2	< .11	< .11
Total Xylenes	< .01	0.07	< .01	0.07	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	0.25	0.09	0.1
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	0.11	0.34	0.46
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	0.05	< .04	0.05	< 2	< 2	< .04	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.01	0.02	0.01	0.02	0.01	< .01	< .01	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG123294	SG123294	SG123394	SG123494	SG123494	SG123594	SG123694	SG123794
Sample Identification Number:	SGG2023JE	SGG2069JER	SGG1233JE	SGG1234JE	SGG1968JE	SGG1235JE	SGG2070JER	SGG2071JER
Date Sampled:	2/8/95	2/8/95	11/18/94	12/20/94	12/20/94	11/23/94	2/8/95	2/8/95
Test Group:GC/MS Units: µg/L	DUP				EB			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.01	< .01	0.01	< .01	0.01	< .01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.12	< .04	< .04	< .04	< .04	< .04	0.05	0.16
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.26	< .03	< .03	0.06	< .03	< .03
Benzene	< .06	0.21	0.09	0.4	< .03	< .03	0.52	0.62
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	0.13	0.23
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.17	0.07	< .03	< .03	< .03	< .03	< .03	0.06
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.02	0.01	0.01	< .01	0.01	0.03	0.06
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.08
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.12	0.2	0.31	0.03	< .02	0.45	0.02	0.32
Toluene	< .11	< .11	< .11	0.15	< .11	< .11	0.23	0.31
Total Xylenes	< .04	< .04	< .04	< .01	< .04	< .01	< .04	< .04
Trichloroethene	0.29	0.37	0.04	0.1	< .03	0.04	< .03	< .03
Trichlorofluoromethane	< .05	0.12	< .05	< .05	< .05	0.05	0.34	0.39
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< .04	< .04	< .04	< .04	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.01
o-Xylene	< .01	0.01	< .01	0.01	< .01	0.01	0.02	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG123994	SG124094	SG124194	SG124294	SG124394	SG124394	SG124394	SG124494
Sample Identification Number:	SGG1239JE*R	SGG1240JE	SGG1241JE	SGG2072JER	SGG2028JE	SGG2029JE	SGG2073JER	SGG2074JER
Date Sampled:	12/2/94	11/21/94	11/22/94	2/15/95	2/14/95	2/14/95	2/14/95	2/14/95
Test Group:GC/MS Units: µg/L					EB	DUP		
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	0.27	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	0.03	0.02	0.06
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	0.01	< .01	0.02
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .4	< .04	< .04	0.07	< .04	0.09	< .04	0.16
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .3	0.44	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	0.74	0.26	< .03	.38 B	< .24	0.36	0.05	0.54
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .4	0.1	< .04	0.18	< .04	< .04	< .04	0.09
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .3	< .03	< .03	0.06	< .03	0.04	< .03	0.04
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .1	0.02	< .01	0.05	< .01	0.03	< .01	0.11
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .2	0.09	0.72	< .02	0.04	0.06	0.05	0.59
Toluene	< 1.11	0.14	< .11	0.25	< .11	0.19	< .11	0.48
Total Xylenes	< .4	< .01	< .04	< .04	< .04	< .04	< .04	0.25
Trichloroethene	< .3	< .03	< .03	< .03	< .03	0.21	< .03	< .03
Trichlorofluoromethane	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .71	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .4	< .04	< .04	< 2	< 2	< 2	< 2	0.18
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	< .01	< .01	< .01	0.01	< .01	0.01
o-Xylene	< .1	0.01	< .01	0.01	< .01	0.03	< .01	0.07
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG124594	SG124694	SG124794	SG124894	SG124994	SG125094	SG125294	SG125394
Sample Identification Number:	SGG2075JE*R	SGG2076JER	SGG1247JE	SGG2077JER	SGG2078JER	SGG2079JER	SGG1252JE	SGG1253JE
Date Sampled:	2/13/95	2/13/95	11/22/94	2/15/95	2/14/95	2/8/95	12/20/94	12/20/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,1-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< 5	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< 4	< .04	< .04
1,2,4-Trimethylbenzene	< .1	0.02	0.01	< .01	0.02	< 1	0.02	0.01
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
2-Butanone	< .4	0.14	< .04	< .04	0.1	< 4	< .04	< .04
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
Acetone	1.3	< .03	< .03	< .03	< .03	6.1	0.05	< .03
Benzene	< 2.42	0.55	0.25	0.22	0.41	3.4	< .03	0.21
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
Bromomethane	< .3	< .03	0.08	< .03	< .03	< 3	< .03	< .03
Carbon Disulfide	< .4	0.16	< .04	0.15	0.16	< 4	< .04	< .04
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< 8.1	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< 3	0.09	0.19
Chloromethane	0.44	< .03	0.55	0.07	< .03	< 3	< .03	< .03
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .04	< 4	< .04	< .04
Ethylbenzene	0.1	0.08	0.02	0.02	0.02	< 1	< .01	< .01
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< 4	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	0.03
Styrene	< .4	< .04	< .04	< .04	< .04	< 4	< .04	< .04
Tetrachloroethene	0.83	0.14	0.07	0.04	0.06	2200 J	0.04	< .02
Toluene	< 1.11	0.4	0.13	0.15	0.18	< 11	< .11	< .11
Total Xylenes	< .4	< .04	< .01	< .04	< .04	< 4	< .01	< .04
Trichloroethene	< .3	0.13	< .03	< .03	< .03	19	< .03	< .03
Trichlorofluoromethane	9.6	0.52	0.49	< .05	< .05	47	< .05	< .05
Vinyl Chloride	< .71	< .07	< .07	< .07	< .07	< 7.1	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
m & p-Xylenes	< 2	< 2	< .04	< 2	< 2	< 2	< .04	< .04
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
n-Propylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
o-Xylene	< .1	0.03	0.01	0.01	0.01	< 1	0.01	< .01
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< 2	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< 5	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG125394	SG125494	SG125594	SG125594	SG125594	SG125694	SG125794	SG125894
Sample Identification Number:	SGG1969JE	SGG1254JER	SGG1255JE*R	SGG1255JER	SGG1954JE	SGG1256JE	SGG2083JER	SGG1953JE
Date Sampled:	12/20/94	12/20/94	12/20/94	12/20/95	11/23/94	12/1/94	2/14/95	11/23/94
Test Group:GC/MS Units: µg/L	DUP				DUP			EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	0.03	< .1	0.02	< .01	< .01	0.02	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.04	< .4	< .04	0.1	0.04	0.15	< .04
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.54	< .03	0.2	< .03	< .03	< .03
Benzene	< .03	0.35	0.35	0.6	0.1	0.34	0.48	< .03
Bromobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	0.05	< .4	0.07	< .04	< .04	0.21	< .04
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	0.02	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .81	< .08	< .08	< .08	< .08	< .08
Chloroform	0.2	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .3	< .03	< .03	< .03	0.04	< .03
Dibromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.04	< .1	0.02	0.04	0.02	0.05	< .01
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .2	< .02	2.1	0.02	0.1	< .02
Toluene	< .11	0.33	< 1.11	< .11	< .11	0.14	0.21	< .11
Total Xylenes	< .04	0.11	< .4	0.07	< .01	< .01	< .04	< .04
Trichloroethene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .71	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	0.08	< .4	0.05	< .04	< .04	< 2	< .04
n-Butylbenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.03	< .1	0.02	0.01	0.01	0.03	< .01
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG125894	SG125994	SG126094	SG126094	SG126294	SG126394	SG126394	SG126494
Sample Identification Number:	SGG2084JER	SGG2085JER	SGG1260JE	SGG1959JE	SGG1262JE	SGG1955JE	SGG2086JER	SGG1961JE
Date Sampled:	3/28/95	2/14/95	11/30/94	11/30/94	11/30/94	11/28/94	2/14/95	12/2/94
Test Group:GC/MS Units: µg/L				DUP		EB		EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	0.08	< .03	< .03	< .03	< .03	0.09	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	0.04	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.04	0.02	0.01	< .01	< .01	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.08	0.08	0.11	< .04	0.08	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.68	< .03	< .03	< .03	0.39	0.13	< .03	< .03
Benzene	0.59	0.5	0.26	0.17	0.04	< .03	0.04	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.08	0.23	0.08	0.05	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.56	0.15	< .03	< .03	< .03	< .03	0.05	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.04	0.05	0.02	0.02	0.01	0.01	< .01	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.07	1.5	< .02	< .02	< .02	0.12	0.04	< .02
Toluene	0.34	0.21	0.12	0.11	< .11	< .11	< .11	< .11
Total Xylenes	< .02	< .04	0.06	< .01	< .04	0.08	< .04	< .04
Trichloroethene	< .03	0.14	< .03	< .03	< .03	< .03	0.33	< .03
Trichlorofluoromethane	0.33	< .05	< .05	< .05	0.29	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< 2	0.04	< .04	< .04	0.06	< 2	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.02	0.03	0.02	0.01	< .01	0.02	< .01	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG126494	SG126594	SG126694	SG126794	SG126794	SG126894	SG126994	SG127094
Sample Identification Number:	SGG2087JER	SGG1265JE	SGG1266JER	SGG1267JE	SGG1946JE	SGG1268JE	SGG1269JE	SGG1270JE
Date Sampled:	2/14/95	12/2/94	12/20/95	11/16/94	11/16/94	11/16/94	12/1/94	12/1/94
Test Group:GC/MS Units: µg/L					EB			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.05	0.02	< .01	< .01	< .01	< .01	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.06	< .04	0.06	< .04	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	0.26	< .03	0.18	< .03	0.21	< .03	< .03
Benzene	0.55	0.06	0.54	0.11	< .03	0.13	0.32	0.46
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.15	< .04	< .04	< .04	< .04	< .04	< .04	0.1
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	0.02	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.33	< .03	0.06	1.2	< .03	0.05	< .03	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.07	0.02	0.02	0.02	< .01	< .01	0.04	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.07	0.02	0.09	< .02	< .02	< .02	< .02	< .02
Toluene	0.37	< .11	0.22	< .11	< .11	< .11	0.17	0.24
Total Xylenes	0.14	< .01	< .04	< .02	< .01	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	0.3	0.08	0.26	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.1	< .04	< .04	< .04	< .04	< .04	< .04	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.04	0.01	< .01	0.02	0.01	< .01	< .01	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG127194	SG127194	SG127294	SG127294	SG127394	SG127494	SG127594	SG127694	SG127794
Sample Identification Number:	SGG2031JE	SGG2088JER	SGG1272JE	SGG1962JE	SGG1273JE	SGG1274JE	SGG1275JE	SGG1276JE	SGG1277JE
Date Sampled:	2/15/95	2/15/95	12/2/94	12/2/94	12/2/94	12/2/94	12/2/94	12/2/94	12/1/94
Test Group:GC/MS Units: µg/L	DUP			DUP					
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.02	0.02	0.02	0.03	0.04	0.01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	0.01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.07	0.08	< .04	< .04	< .04	0.18	< .04	0.09	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	0.77	< .03	< .03	< .03
Benzene	.25 B	0.77	0.26	0.17	0.18	0.69	0.68	0.52	0.19
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.07	0.15	0.07	0.08	< .04	0.1	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.04	0.09	< .03	< .03	< .03	0.18	< .03	0.2	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	0.05	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.06	0.06	0.02	0.04	0.04	0.09	0.03	0.07	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	0.04	< .03	0.03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.26	0.42	0.15	0.15	0.11	0.4	0.17	0.3	< .11
Total Xylenes	< .04	< .04	< .01	< .04	0.1	0.16	0.09	0.06	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	2	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< .04	< .04	0.07	0.11	0.06	0.04	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	0.01	< .01	< .01	< .01
o-Xylene	0.02	0.02	0.01	< .01	0.03	0.05	0.03	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG127894	SG128094	SG128194	SG128194	SG128294	SG128394	SG128394	SG128494	SG128594
Sample Identification Number:	SGG1278JE	SGG1280JE	SGG1281JE	SGG1281JE*	SGG1282JE	SGG1283JE	SGG1963JE	SGG1284JE	SGG1285JE
Date Sampled:	12/1/94	12/2/94	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94	12/15/94	12/15
Test Group:GC/MS Units: µg/L							EB		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	0.18	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.07	0.11	0.02	0.03	0.01	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	0.02	< .1	< .01	0.01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	0.05	< .4	0.05	< .04	< .04	0.14	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	1.7	< .03	< .3	< .03	< .03	< .03	< .03	0.1
Benzene	0.15	0.88	0.32	0.61	0.36	0.73	< .03	0.96	< .03
Bromobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	0.04	0.09	< .4	< .04	0.12	< .04	0.06	< .
Carbon Tetrachloride	< .03	< .03	0.06	< .3	0.16	0.13	0.2	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .81	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .3	< .03	0.39	< .03	0.06	0.04
Dibromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04	0.08
Ethylbenzene	0.01	0.07	0.14	0.17	0.02	0.04	< .01	0.04	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .2	0.08	0.18	< .02	0.06	< .02
Toluene	< .11	0.49	4.4 J	10	0.62	0.39	< .11	1.2	< .11
Total Xylenes	< .04	0.07	0.44	0.64	0.12	0.1	< .02	0.08	< .04
Trichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .5	0.06	< .05	< .05	0.51	17 J
Vinyl Chloride	< .07	< .07	< .07	< .71	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	0.05	0.33	0.47	0.09	0.07	< .04	0.06	< .04
n-Butylbenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	0.01	< .1	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.02	0.11	0.17	0.03	0.03	0.02	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG128594	SG128694	SG128794	SG128894	SG128994	SG128994	SG129094	SG129094	SG129194
Sample Identification Number:	SGG1285JE*	SGG1286JE	SGG1287JE	SGG1288JE	SGG1289JE	SGG1965JE	SGG1290JE	SGG1964JE	SGG1291JE
Date Sampled:	12/15/95	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94	12/12/94	12/12/94	12/12/94
Test Group:GC/MS Units: µg/L						EB		DUP	
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .5	< .05	0.08	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	< .01	< .01	0.01	0.02	< .01	0.03	0.02	0.03
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .4	0.06	0.05	0.08	0.13	< .04	0.09	< .04	< .04
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.5	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	< .3	1.1	0.31	1.1	1.4	< .03	0.31	0.15	0.25
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .4	0.13	< .04	0.18	0.08	< .04	0.07	0.04	< .04
Carbon Tetrachloride	< .3	< .03	< .03	0.03	0.04	0.1	0.06	0.04	0.04
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .3	0.04	0.03	0.12	0.12	< .03	< .03	< .03	< .03
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .1	0.02	0.01	0.08	0.06	0.01	0.04	0.06	0.02
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	< 1.11	0.3	0.23	0.63	0.89	< .11	1.5	1.2	0.17
Total Xylenes	< .4	0.07	< .04	0.15	0.17	< .04	0.14	0.21	0.11
Trichloroethene	< .3	< .03	0.1	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	4.3	0.22	< .05	< .05	< .05	< .05	< .05	< .05	3.9
Vinyl Chloride	< .71	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .4	0.05	< .04	0.11	0.13	< .04	0.1	0.14	0.08
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .1	0.02	< .01	0.04	0.04	< .01	0.04	0.07	0.03
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location:	SG129394	SG129494	SG129594	SG129694	SG129694	SG129794	SG129794	SG129894	SG129994
Sample Identification Number:	SGG1293JE	SGG1294JE	SGG1295JE	SGG1296JE	SGG1966JE	SGG1297JE	SGG1297JE*	SGG1298JE	SGG1299JE
Date Sampled:	12/12/94	12/20/95	12/20/95	12/15/94	12/15/94	12/15/94	12/15/95	12/15/94	12/15
Test Group:GC/MS Units: µg/L					DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	0.08	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.02	< .01	< .01	0.05	0.03	< .1	0.02	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	0.01	0.01	< .1	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
2-Butanone	< .04	0.13	< .04	0.04	0.1	0.24	< .4	0.06	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	1	< .03	0.04
Benzene	0.38	1.1	< .03	0.33	0.28	0.47	0.34	0.25	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	0.07	< .03	< .3	< .03	< .03
Carbon Disulfide	0.06	0.18	< .04	< .04	< .04	< .04	< .4	< .04	< [illegible]
Carbon Tetrachloride	< .03	0.21	< .03	< .03	0.04	< .03	< .3	< .03	< [illegible]
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chloromethane	< .03	0.05	< .03	< .03	1.1	0.06	< .3	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	0.05	0.08	< .4	< .04	< .04
Ethylbenzene	< .01	0.06	< .01	0.02	0.03	0.04	< .1	0.04	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	0.04	< .03	< .3	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	< .02	0.04	< .02	< .02	< .02	< .02	< .2	< .02	0.1
Toluene	< .11	0.63	< .11	0.14	0.21	1	< 1.11	0.16	< .11
Total Xylenes	< .04	0.12	< .04	< .02	0.16	0.12	< .4	0.13	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Trichlorofluoromethane	2.8	0.06	< .05	0.47	14 J	12 J	7	< .05	0.15
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .71	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	< .04	0.09	< .04	< .04	0.11	0.08	< .4	0.09	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
o-Xylene	< .01	0.03	< .01	0.02	0.05	0.04	< .1	0.04	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG215894 SGG2158JE 3/17/95	SG215994 SGG2159JE** 3/17/95	SG215994 SGG2193JE 3/17/95	SG216194 SGG2161JE 3/17/95	SG216194 SGG2192JE 3/17/95	SG216294 SGG2162JE* 3/17/95
Test Group:GC/MS Units: µg/L			EB		DUP	
1,1,1,2-Tetrachloroethane	< .02	< 1.9	< .02	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< 1.9	< .02	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,1-Dichloroethane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,1-Dichloroethene	< .05	< 4.76	< .05	< .05	< .05	< .5
1,1-dichloropropene	< .03	< 2.86	< .03	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< 2.86	< .03	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< 1.9	< .02	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< 3.81	< .04	< .04	< .04	< .4
1,2,4-Trimethylbenzene	0.01	< .95	< .01	< .01	< .01	< .1
1,2-Dibromo-3-chloropropane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< 1.9	< .02	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< 1.9	< .02	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .95	< .01	< .01	< .01	< .1
1,3-Dichlorobenzene	< .01	< .95	< .01	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< 2.86	< .03	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< 1.9	< .02	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< 2.86	< .03	< .03	< .03	< .3
2-Butanone	< .04	< 3.81	< .04	< .04	0.04	< .4
2-Chlorotoluene	< .01	< .95	< .01	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .95	< .01	< .01	< .01	< .1
Acetone	0.45	< 2.86	0.09	0.31	0.08	2
Benzene	0.24	< 2.86	< .03	0.06	< .03	1.5
Bromobenzene	< .01	< .95	< .01	< .01	< .01	< .1
Bromochloromethane	< .03	< 2.86	< .03	< .03	< .03	< .3
Bromodichloromethane	< .03	< 2.86	< .03	< .03	< .03	< .3
Bromoform	< .02	< 1.9	< .02	< .02	< .02	< .2
Bromomethane	< .03	< 2.86	< .03	0.04	< .03	< .3
Carbon Disulfide	< .04	< 3.81	< .04	< .04	< .04	< .4
Carbon Tetrachloride	2.7	930 J	< .03	< .03	< .03	< .3
Chlorobenzene	< .01	< .95	< .01	< .01	< .01	0.13
Chloroethane	< .08	< 7.62	< .08	< .08	< .08	< .81
Chloroform	< .03	6.2	< .03	< .03	< .03	< .3
Chloromethane	< .03	< 2.86	< .03	0.05	0.05	< .3
Dibromochloromethane	< .03	< 2.86	< .03	< .03	< .03	< .3
Dibromromethane	< .03	< 2.86	< .03	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< 3.81	< .04	< .04	< .04	< .4
Ethylbenzene	0.02	< .95	< .01	0.02	< .01	0.65
Hexachlorobutadiene	< .04	< 3.81	< .04	< .04	< .04	< .4
Isopropylbenzene	< .01	< .95	< .01	< .01	< .01	< .1
Methylene Chloride	< .03	< 2.86	< .03	< .03	< .03	< .3
Naphthalene	< .03	< 2.86	< .03	< .03	< .03	< .3
Styrene	< .04	< 3.81	< .04	< .04	< .04	< .4
Tetrachloroethene	< .02	< 1.9	< .02	0.07	0.07	< .2
Toluene	0.19	< 10.48	< .11	0.24	0.11	27
Total Xylenes	< .01	< 3.81	< .04	< .02	< .04	1.93
Trichloroethene	0.04	10	< .03	< .03	< .03	< .3
Trichlorofluoromethane	< .05	< 4.76	< .05	0.76	< .05	< .5
Vinyl Chloride	< .07	< 6.67	< .07	< .07	< .07	< .71
cis-1,2-dichloroethene	< .03	< 2.86	< .03	< .03	< .03	< .3
cis-1,3-Dichloropropene	< .03	< 2.86	< .03	< .03	< .03	< .3
m & p-Xylenes	< .04	< 3.81	< .04	< .04	< .04	1.5
n-Butylbenzene	< .02	< 1.9	< .02	< .02	< .02	< .2
n-Propylbenzene	< .01	< .95	< .01	< .01	< .01	< .1
o-Xylene	0.01	< .95	< .01	0.02	< .01	0.43
p-Isopropyltoluene	< .02	< 1.9	< .02	< .02	< .02	< .2
s-Butylbenzene	< .01	< .95	< .01	< .01	< .01	< .1
t-Butylbenzene	< .01	< .95	< .01	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	< 4.76	< .05	< .05	< .05	< .5
trans-1,3-dichloropropene	< .03	< 2.86	< .03	< .03	< .03	< .3
Test Group:Gastech Units: ppm						
Hydrogen Sulfide						
Methane						

TABLE E-1
Soil-Gas Summary of Results
IHSS 197

Sample Location:	SG130094	SG130194	SG130294	SG130394	SG130394	SG130494	SG130594	SG130694	SG130794
Sample Identification Number:	SGG1300JE	SGG1301JE	SGG1302JE	SGG1303JE	SGG2012JE	SGG1304JE	SGG1305JE*	SGG1306JE	SGG1307JE
Date Sampled:	2/3/95	2/3/95	2/2/95	2/3/95	2/3/95	2/3/95	2/3/95	2/3/95	2/3/95
Test Group:GC/MS Units: µg/L					DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	0.06	0.09	< .03	< .03	< .03	< .03	< .3	0.03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .03	0.07	< .03	< .03	< .03	< .3	0.05	< .03
1,1-Dichloroethene	< .05	< .05	0.08	< .05	< .05	0.31	< .5	0.16	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.02	0.01	< .01	0.02	< .1	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
2-Butanone	< .04	< .04	0.53	0.19	0.12	0.13	< .4	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	0.43	< .03	< .03
Benzene	0.28	0.11	1.1	0.43	0.17	0.21	< .3	0.26	0.16
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Carbon Disulfide	0.08	< .04	0.2	0.1	0.04	0.04	< .4	0.08	0.05
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08	< .08
Chloroform	< .03	0.14	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chloromethane	< .03	0.05	0.05	0.1	0.09	0.11	< .3	0.14	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Ethylbenzene	0.04	0.02	0.12	0.04	0.03	0.03	< .1	0.02	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	0.39	2.2	0.09	< .02	< .02	< .02	4.8	0.74	0.04
Toluene	0.26	0.15	1.4	0.33	0.16	0.2	< 1.11	0.12	< .11
Total Xylenes	0.13	< .04	0.26	< .04	< .04	< .04	< .4	< .04	< .04
Trichloroethene	< .03	0.37	0.19	< .03	< .03	< .03	1.1	0.31	< .03
Trichlorofluoromethane	< .05	< .05	< .05	0.09	0.42	1.1	< .5	0.1	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .71	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	0.14	< .03	< .03	0.76	< .3	0.06	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	0.1	< 2	0.18	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
n-Propylbenzene	< .01	< .01	0.02	< .01	< .01	< .01	< .1	< .01	< .01
o-Xylene	0.03	0.02	0.08	0.02	0.03	0.03	< .1	0.02	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	0.77	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 197

Sample Location:	SG130894	SG130994	SG131094	SG131194	SG131194	SG131294	SG131494	SG131594	SG131694
Sample Identification Number:	SGG1308JE	SGG1309JE	SGG1310JE	SGG1311JE	SGG2021JE	SGG1312JE	SGG1314JE	SGG1315JE	SGG1[illegible]
Date Sampled:	2/3/95	2/3/95	2/3/95	2/7/95	2/7/95	2/7/95	2/6/95	2/7/95	2/7[illegible]
Test Group:GC/MS Units: µg/L					DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	0.59	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.02	0.01	0.02	0.02	0.01	< .01	0.01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.11	0.12	0.29	0.1	0.06	0.05	< .04	0.04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	0.51	0.76	0.66	.59 B	.35 B	.13 B	< .06	< .06	< .06
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< [illegible]
Carbon Disulfide	0.06	0.04	0.07	0.07	0.07	0.05	< .04	< .04	< .0[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.09	0.09	0.05	0.07	0.04	0.05	< .03	< .03	0.05
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.05	0.1	0.06	0.03	0.02	0.02	0.01	0.02	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	0.06	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.36	0.77	0.51	0.32	0.31	< .11	< .11	< .11	< .11
Total Xylenes	< .04	0.2	0.15	< .04	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .03	0.42	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	0.84	1.1	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	3.4	1.5	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	0.14	0.1	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.05	0.06	0.05	0.03	0.02	0.02	0.01	0.02	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	0.08	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .0[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG131794	SG131994	SG131994	SG132094	SG132194	SG132394	SG132594	SG132694	SG132794
Sample Identification Number:	SGG1317JE	SGG1319JE	SGG2019JE	SGG1320JE	SGG1321JE*	SGG1323JE	SGG1325JE	SGG1326JE	SGG1327JE
Date Sampled:	2/6/95	2/6/95	2/6/95	2/6/95	2/6/95	2/7/95	2/6/95	2/7/95	2/7/95
Test Group:GC/MS Units: µg/L			EB						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	< .1	0.01	< .01	< .01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	0.06	0.17	< .4	0.15	0.24	0.05	0.09
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Acetone	0.11	< .03	0.8	< .03	< .3	< .03	< .03	< .03	0.34
Benzene	< .06	.54 B	.28 B	.6 B	1 B	.56 B	.28 B	.41 B	.22 B
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	0.1
Carbon Disulfide	< .04	0.14	0.1	0.11	< .4	0.1	< .04	0.22	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .81	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	0.05	< .3	0.04	< .03	0.05	0.05
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.01	0.06	0.05	0.24	0.04	0.03	0.04	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
Toluene	< .11	0.36	0.34	0.78	5.1	0.28	0.12	0.24	0.16
Total Xylenes	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	0.29	< .05	< .05	< .5	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .71	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	0.03	0.03	0.25	0.04	0.02	0.02	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 197

Sample Location: Sample Identification Number: Date Sampled:	SG132894 SGG1328JE 2/6/95	SG133094 SGG1330JE* 2/7/95	SG133394 SGG1333JE 2/7/95	SG133394 SGG2020JE 2/7/95	SG133694 SGG1336JE 2/7/95	SG133894 SGG1338JE 2/6/95	SG133894 SGG2018JE 2/6/95	SG133994 SGG1339JE 2/7/95
Test Group:GC/MS Units: µg/L				EB			EB	
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .5	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .1	0.02	< .01	0.02	0.01	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	0.31	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.15	< .4	0.12	< .04	0.06	0.21	< .04	0.05
2-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	.75 B	1.2	1.2 B	< .06	.13 B	.61 B	< .06	.5 B
Bromobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.13	< .4	0.28	< .04	< .04	0.11	< .04	0.18
Carbon Tetrachloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .81	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.56	0.08	< .03	0.3	0.04	< .03	0.05
Dibromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.07	< .1	0.08	< .01	0.12	0.04	< .01	0.03
Hexachlorobutadiene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .1	< .01	< .01	0.01	< .01	< .01	< .01
Methylene Chloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.41	22	1.4	< .11	0.28	0.27	< .11	0.26
Total Xylenes	< .04	< .4	0.19	< .04	1.05	< .04	< .04	< .04
Trichloroethene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	0.06	0.58	< .05	< .05	0.58	< .05	< .05	< .05
Vinyl Chloride	< .07	< .71	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	0.14	< 2	0.7	< 2	< 2	< 2
n-Butylbenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .1	< .01	< .01	0.01	< .01	< .01	< .01
o-Xylene	0.02	< .1	0.05	< .01	0.35	0.02	< .01	0.02
p-Isopropyltoluene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .5	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG134094	SG134094	SG134194	SG134194	SG134294	SG134394	SG134494	SG134594
Sample Identification Number:	SGG1340JE	SGG1340JE*	SGG1341JER	SGG1940JE	SGG1342JE	SGG1343JE	SGG1344JE	SGG1345JE
Date Sampled:	11/3/94	11/3/94	11/7/94	11/7/94	12/16/94	12/16/94	12/16/94	12/16/94
Test Group:GC/MS Units: µg/L				EB				
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	0.21	< .5	0.33	0.5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.04	< .1	0.02	0.02	< .01	0.02	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.06	< .4	0.04	< .04	< .04	0.1	0.05	0.11
2-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .3	< .03	< .03	0.09	< .03	< .03	< .03
Benzene	0.3	< .3	0.3	0.06	0.11	0.52	0.17	0.95
Bromobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .4	0.05	< .04	< .04	0.1	< .04	0.18
Carbon Tetrachloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .81	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.17	< .3	< .03	< .03	< .03	0.06	0.19	0.11
Dibromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.06	< .1	0.04	0.01	< .01	0.03	0.02	0.02
Hexachlorobutadiene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.04	< .2	0.21	0.06	< .02	< .02	< .02	< .02
Toluene	0.22	< 1.11	0.27	< .11	< .11	< .11	< .11	0.19
Total Xylenes	0.06	< .4	0.08	0.05	< .04	0.13	< .01	0.06
Trichloroethene	16 J	15	0.08	0.11	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .5	0.76	0.23	2.6	1.3	0.66	< .05
Vinyl Chloride	< .07	< .71	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	16 J	16	0.03	0.05	< .03	< .03	< .03	0.04
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.04	< .4	0.06	0.04	< .04	0.1	< .04	0.05
n-Butylbenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	< .1	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.02	< .1	0.02	0.01	< .01	0.03	0.01	0.01
p-Isopropyltoluene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	0.09	< .5	0.21	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG134694	SG134794	SG134894	SG134994	SG135094	SG135194	SG135194	SG136394
Sample Identification Number:	SGG1346JE	SGG1347JE	SGG1348JE	SGG1349JE	SGG1350JE	SGG1351JE*R	SGG1967JE	SGG1363JE
Date Sampled:	12/16/94	12/16/94	12/16/95	12/16/94	12/16/94	3/28/95	12/16/94	11/7/94
Test Group:GC/MS Units: µg/L							EB	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	0.05	1.3	< .03	0.03
1,1-Dichloroethene	0.06	< .05	0.09	< .05	0.07	1.6	< .05	0.49
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	0.02	< .01	0.68	< .01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	0.53	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
2-Butanone	< .04	0.08	< .04	< .04	< .04	< .4	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Acetone	< .03	< .03	0.19	0.17	< .03	0.81	< .03	< .03
Benzene	< .03	0.72	< .03	< .03	0.2	0.65	< .03	0.05
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	0.2	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .81	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chloromethane	0.04	0.08	1.1	< .03	0.11	< .3	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Ethylbenzene	< .01	0.06	< .01	0.02	< .01	0.37	< .01	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	0.18	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .2	< .02	0.06
Toluene	< .11	0.42	< .11	0.14	< .11	< 1.11	< .11	< .11
Total Xylenes	< .04	0.09	< .04	0.08	< .04	< .65	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	0.06	< .3	< .03	0.69
Trichlorofluoromethane	0.09	< .05	12 J	4.2 J	< .05	2.8	< .05	0.56
Vinyl Chloride	0.2	2.2	1.2	2.2	1.1	8.9	< .07	0.23
cis-1,2-dichloroethene	0.06	0.5	1.6	< .03	2.3	0.77	< .03	0.79
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	< .04	0.06	< .04	0.06	< .04	< .4	< .04	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	0.23	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	0.32	< .01	< .01
o-Xylene	< .01	0.03	< .01	0.02	< .01	0.65	< .01	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	0.18	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG136394	SG137794	SG138194	SG138294	SG138294	SG138394	SG138394	SG138494
Sample Identification Number:	SGG1363JE*	SGG1377JE	SGG1381JE	SGG1382JE*RR	SGG1920JE*	SGG1383JE	SGG1383JE**	SGG1384JE
Date Sampled:	11/3/94	10/18/94	10/19/94	10/19/94	10/19/94	10/20/94	10/20/94	10/20/94
Test Group:GC/MS Units: µg/L					DUP			
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	0.27
1,1-Dichloroethene	< .5	< .05	< .05	< .51	< .51	2.8 J	< 5.1	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .4	< .4	< .04	< 4.1	< .04
1,2,4-Trimethylbenzene	< .1	0.01	0.02	< .1	< .1	0.05	3.1	0.06
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .1	< .1	0.02	< 1	0.02
1,3-Dichlorobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
2-Butanone	< .4	< .04	< .04	< .4	< .4	< .04	< 4.1	0.16
2-Chlorotoluene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
Acetone	< .3	< .03	< .03	2.3	1.3	< .03	3.5	< .03
Benzene	< .3	0.35	0.7	0.51	0.4	0.52	< 3.1	0.34
Bromobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
Bromochloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Bromodichloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Bromoform	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
Bromomethane	< .3	< .03	< .03	< .3	< .3	0.06	< 3.1	< .03
Carbon Disulfide	< .4	0.07	0.06	< .4	< .4	0.12	< 4.1	0.05
Carbon Tetrachloride	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Chlorobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
Chloroethane	< .81	< .08	< .08	< .81	< .81	3.8 J	< 8.2	< .08
Chloroform	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Chloromethane	0.52	< .03	< .03	3.9	< .3	0.34	< 3.1	0.06
Dibromochloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Dibromromethane	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .4	< .4	< .04	< 4.1	< .04
Ethylbenzene	< .1	0.07	0.07	0.1	< .1	0.11	2	0.06
Hexachlorobutadiene	< .4	< .04	< .04	< .4	< .4	< .04	< 4.1	< .04
Isopropylbenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
Methylene Chloride	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Naphthalene	< .3	0.08	0.07	< .3	< .3	0.12	< 3.1	< .03
Styrene	< .4	< .04	< .04	< .4	< .4	< .04	< 4.1	< .04
Tetrachloroethene	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
Toluene	< 1.11	0.32	0.62	< 1.11	< 1.11	0.41	< 11.2	0.29
Total Xylenes	< .4	0.12	0.12	< .4	< .4	0.4	13.3	0.18
Trichloroethene	2	< .03	< .03	< .3	< .3	0.37	< 3.1	< .03
Trichlorofluoromethane	< .5	< .05	< .05	< .51	< .51	< .05	< 5.1	< .05
Vinyl Chloride	< .71	0.3	< .07	< .71	0.88	970 J	460 J	34 J
cis-1,2-dichloroethene	4.1	0.08	< .03	< .3	< .3	130 J	320	0.45
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
m & p-Xylenes	< .4	0.08	0.08	< .4	< .4	0.28	10	0.13
n-Butylbenzene	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
n-Propylbenzene	< .1	0.01	< .01	< .1	< .1	0.02	< 1	0.01
o-Xylene	< .1	0.04	0.04	< .1	< .1	0.12	3.3	0.05
p-Isopropyltoluene	< .2	< .02	< .02	< .2	< .2	< .02	< 2	< .02
s-Butylbenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
t-Butylbenzene	< .1	< .01	< .01	< .1	< .1	< .01	< 1	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .51	< .51	4.8 J	< 5.1	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< 3.1	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		70	890	100	100	90	90	1080

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG138494	SG138594	SG138594	SG138694	SG138694	SG138794	SG138794	SG138894
Sample Identification Number:	SGG1384JE**	SGG1385JE	SGG1385JE**	SGG1386JE	SGG1386JE*	SGG1387JE	SGG1387JE*	SGG1388JE
Date Sampled:	10/20/94	10/20/94	10/20/94	10/19/94	10/19/94	10/19/94	10/19/94	10/18/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
1,1,1-Trichloroethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
1,1,2-Trichloroethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,1-Dichloroethane	< 3	0.07	< 3	< .03	< .3	< .03	< .3	< .03
1,1-Dichloroethene	< 5	< .05	< 5	< .05	< .51	< .05	< .51	< .05
1,1-dichloropropene	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,2,3-Trichloropropane	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< 4	< .04	< 4	< .04	< .4	< .04	< .4	< .04
1,2,4-Trimethylbenzene	< 1	0.05	1.7	< .01	< .1	0.02	< .1	0.02
1,2-Dibromo-3-chloropropane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,2-Dibromoethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,2-Dichlorobenzene	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
1,2-Dichloroethane	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
1,2-Dichloropropane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< 1	0.01	< 1	< .01	< .1	< .01	< .1	< .01
1,3-Dichlorobenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
1,3-Dichloropropane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
1,4-Dichlorobenzene	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
2,2-Dichloropropane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
2-Butanone	< 4	0.13	< 4	< .04	< .4	< .04	< .4	0.22
2-Chlorotoluene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
4-Chlorotoluene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
Acetone	3.5	< .03	5.2	1.2	< .3	< .03	1.7	< .03
Benzene	< 3	0.46	< 3	0.46	0.92	0.73	0.57	0.26
Bromobenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
Bromochloromethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Bromodichloromethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Bromoform	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
Bromomethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Carbon Disulfide	< 4	< .04	< 4	0.04	< .4	0.07	< .4	< .04
Carbon Tetrachloride	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Chlorobenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
Chloroethane	< 8	< .08	< 8	< .08	< .81	< .08	< .81	< .08
Chloroform	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Chloromethane	< 3	0.06	< 3	< .03	< .3	< .03	< .3	< .03
Dibromochloromethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Dibromromethane	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Dichlorodifluoromethane	< 4	< .04	< 4	< .04	< .4	< .04	< .4	< .04
Ethylbenzene	< 1	0.09	< 1	0.05	< .1	0.08	< .1	0.04
Hexachlorobutadiene	< 4	< .04	< 4	< .04	< .4	< .04	< .4	< .04
Isopropylbenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
Methylene Chloride	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Naphthalene	< 3	< .03	< 3	0.06	< .3	0.14	< .3	0.04
Styrene	< 4	< .04	< 4	< .04	< .4	< .04	< .4	< .04
Tetrachloroethene	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
Toluene	< 11	0.49	< 11	0.31	< 1.11	2.2 J	2.1	0.24
Total Xylenes	< 4	0.28	< 4	0.1	< .4	0.18	< .4	0.12
Trichloroethene	< 3	0.12	< 3	< .03	< .3	< .03	< .3	< .03
Trichlorofluoromethane	< 5	0.15	< 5	< .05	< .51	5.9 J	1.2	< .05
Vinyl Chloride	24	27 J	7	1.9	< .71	< .07	< .71	0.27
cis-1,2-dichloroethene	3.3	1.6	20	< .03	< .3	< .03	< .3	< .03
cis-1,3-Dichloropropene	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
m & p-Xylenes	< 4	0.2	< 4	0.07	< .4	0.12	< .4	0.07
n-Butylbenzene	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
n-Propylbenzene	< 1	0.01	< 1	< .01	< .1	< .01	< .1	< .01
o-Xylene	< 1	0.08	< 1	0.03	< .1	0.06	< .1	0.05
p-Isopropyltoluene	< 2	< .02	< 2	< .02	< .2	< .02	< .2	< .02
s-Butylbenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
t-Butylbenzene	< 1	< .01	< 1	< .01	< .1	< .01	< .1	< .01
trans-1,2-Dichloroethene	< 5	< .05	< 5	< .05	< .51	< .05	< .51	< .05
trans-1,3-dichloropropene	< 3	< .03	< 3	< .03	< .3	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	1080	21000		210	210	330	330	90

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG138994	SG138994	SG138994	SG139194	SG139294	SG139394	SG139494	SG139494
Sample Identification Number:	SGG1389JE	SGG1389JE*	SGG1389JE**	SGG2089JER	SGG2090JER	SGG2091JER	SGG1394JE	SGG1394JE*
Date Sampled:	11/10/94	11/10/94	11/10/94	2/17/95	2/17/95	2/17/95	11/29/94	11/29/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,1-Dichloroethane	0.49	0.62	< 2.9	< .03	< .03	< .03	< .03	< .3
1,1-Dichloroethene	16 J	35	31	< .05	< .05	< .05	< .05	< .5
1,1-dichloropropene	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .4	< 3.8	< .04	< .04	< .04	< .04	< .4
1,2,4-Trimethylbenzene	0.02	< .1	< 1	0.09	0.08	0.02	0.02	< .1
1,2-Dibromo-3-chloropropane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .1	< 1	0.03	0.03	< .01	< .01	< .1
1,3-Dichlorobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
2-Butanone	0.05	< .4	< 3.8	0.18	0.24	0.14	0.08	< .4
2-Chlorotoluene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
Acetone	< .03	< .3	< 2.9	1.1	< .03	< .03	2.8	2.8
Benzene	0.28	< .3	< 2.9	0.58	1.4	0.69	0.35	0.4
Bromobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
Bromochloromethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Bromodichloromethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Bromoform	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
Bromomethane	0.28	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Carbon Disulfide	< .04	< .4	< 3.8	0.07	0.2	0.25	< .04	< .4
Carbon Tetrachloride	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Chlorobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
Chloroethane	< .08	< .81	< 7.6	< .08	< .08	< .08	< .08	< .81
Chloroform	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Chloromethane	< .03	5	5.2	0.06	0.07	0.06	< .03	< .3
Dibromochloromethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Dibromromethane	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< .4	< 3.8	< .04	< .04	< .04	< .04	< .4
Ethylbenzene	0.05	< .1	< 1	0.07	0.06	0.03	0.09	0.16
Hexachlorobutadiene	< .04	< .4	< 3.8	< .04	< .04	< .04	< .04	< .4
Isopropylbenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
Methylene Chloride	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Naphthalene	< .03	0.38	< 2.9	< .03	< .03	< .03	< .03	< .3
Styrene	< .04	< .4	< 3.8	< .04	< .04	< .04	< .04	< .4
Tetrachloroethene	0.68	1	< 1.9	0.07	0.07	0.08	< .02	< .2
Toluene	0.27	< 1.11	< 10.5	0.33	0.66	0.24	5.1 J	20
Total Xylenes	0.1	< .4	< 3.8	0.16	0.16	< .04	0.3	
Trichloroethene	0.21	< .3	< 2.9	0.07	0.08	0.06	< .03	< .3
Trichlorofluoromethane	< .05	< .5	< 4.8	< .05	< .05	< .05	< .05	0.62
Vinyl Chloride	31 J	50 J	47	< .07	< .07	< .07	1.6	< .71
cis-1,2-dichloroethene	8.5 J	12	10	< .03	< .03	< .03	0.07	< .3
cis-1,3-Dichloropropene	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
m & p-Xylenes	0.06	< .4	< 3.8	0.12	0.12	< 2	0.23	< .4
n-Butylbenzene	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
n-Propylbenzene	0.01	< .1	< 1	0.02	0.01	< .01	< .01	< .1
o-Xylene	0.04	< .1	< 1	0.04	0.04	0.02	0.07	0.12
p-Isopropyltoluene	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02	< .2
s-Butylbenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
t-Butylbenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	1.4	< 4.8	< .05	< .05	< .05	< .05	< .5
trans-1,3-dichloropropene	< .03	< .3	< 2.9	< .03	< .03	< .03	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG139594 SGG1395JE* 11/3/94	SG139594 SGG1395JE** 11/3/94	SG139694 SGG1396JE** 11/3/94	SG139794 SGG1397JE 11/10/94	SG139894 SGG1398JE 10/18/94	SG139894 SGG1398JE* 10/18/94	SG139894 SGG1398JE**R 10/26/94	SG139894 SGG1927JE 10/26/94
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
1,1,1-Trichloroethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,1,2,2-Tetrachloroethane	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
1,1,2-Trichloroethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,1-Dichloroethane	3.8	3.3	15	< .03	0.17	< .3	< 3	< .03
1,1-Dichloroethene	5	< 4.8	290	0.05	0.56	0.6	< 5	< .05
1,1-dichloropropene	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,2,3-Trichlorobenzene	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,2,3-Trichloropropane	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
1,2,4-Trichlorobenzene	< .4	< 3.8	< 3.8	< .04	< .04	< .4	< 4	< .04
1,2,4-Trimethylbenzene	< .1	< 1	< 1	0.01	0.02	< .1	< 1	0.02
1,2-Dibromo-3-chloropropane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,2-Dibromoethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,2-Dichlorobenzene	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
1,2-Dichloroethane	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
1,2-Dichloropropane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,3,5-Trimethylbenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
1,3-Dichlorobenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
1,3-Dichloropropane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
1,4-Dichlorobenzene	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
2,2-Dichloropropane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
2-Butanone	< .4	< 3.8	< 3.8	0.08	< .04	< .4	< 4	< .04
2-Chlorotoluene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
4-Chlorotoluene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
Acetone	< .3	2.9	< 2.9	< .03	< .03	< .3	3.9	0.2
Benzene	< .3	< 2.9	< 2.9	0.77	0.43	0.44	< 3	< .03
Bromobenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
Bromochloromethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Bromodichloromethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Bromoform	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
Bromomethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Carbon Disulfide	< .4	< 3.8	< 3.8	0.06	0.08	< .4	< 4	< .04
Carbon Tetrachloride	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Chlorobenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
Chloroethane	< .81	< 7.6	< 7.6	< .08	< .08	< .81	< 8	< .08
Chloroform	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Chloromethane	< .3	7.3	< 2.9	0.25	0.11	< .3	< 3	< .03
Dibromochloromethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Dibromromethane	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Dichlorodifluoromethane	< .4	< 3.8	< 3.8	< .04	< .04	< .4	< 4	< .04
Ethylbenzene	< .1	< 1	< 1	0.03	0.08	0.12	< 1	< .01
Hexachlorobutadiene	< .4	< 3.8	< 3.8	< .04	< .04	< .4	< 4	< .04
Isopropylbenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
Methylene Chloride	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Naphthalene	3.4	< 2.9	< 2.9	< .03	0.08	< .3	< 3	< .03
Styrene	< .4	< 3.8	< 3.8	< .04	< .04	< .4	< 4	< .04
Tetrachloroethene	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
Toluene	< 1.11	< 10.5	< 10.5	0.4	0.41	< 1.11	< 11	< .11
Total Xylenes	< .12	< .4	< 3.8	< 3.8	< .01	0.15	< .4	< .04
Trichloroethene	< .3	< 2.9	3.8	< .03	0.07	< .3	< 3	< .03
Trichlorofluoromethane	< .5	< 4.8	< 4.8	< .05	0.57	42 J	< 5	< .05
Vinyl Chloride	150 J	170	9.6	1.3	25 J	14	< 7	< .07
cis-1,2-dichloroethene	1.6	< 2.9	51	0.05	0.28	< .3	< 3	< .03
cis-1,3-Dichloropropene	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
m & p-Xylenes	< .4	< 3.8	< 3.8	< .04	0.11	< .4	< 4	< .04
n-Butylbenzene	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
n-Propylbenzene	< .1	< 1	< 1	< .01	0.01	< .1	< 1	< .01
o-Xylene	< .1	< 1	< 1	0.01	0.04	< .1	< 1	< .01
p-Isopropyltoluene	< .2	< 1.9	< 1.9	< .02	< .02	< .2	< 2	< .02
s-Butylbenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
t-Butylbenzene	< .1	< 1	< 1	< .01	< .01	< .1	< 1	< .01
trans-1,2-Dichloroethene	< .5	< 4.8	< 4.8	< .05	0.05	< .51	< 5	< .05
trans-1,3-dichloropropene	< .3	< 2.9	< 2.9	< .03	< .03	< .3	< 3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane					870	870	60	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG139994	SG140094	SG140094	SG140094	SG140094	SG140094	SG140194	SG140194
Sample Identification Number:	SGG1399JE	SGG1400JE	SGG1400JE**	SGG1922JE	SGG1923JE	SGG1923JE**	SGG1401JE	SGG1401JE*
Date Sampled:	10/19/94	10/21/94	10/21/94	10/21/94	10/21/94	10/21/94	10/20/94	10/20/94
Test Group:GC/MS Units: µg/L				EB	DUP	DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
1,1,1-Trichloroethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
1,1,2-Trichloroethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,1-Dichloroethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,1-Dichloroethene	< .05	< .05	< 5.1	< .05	< .05	< 5	< .05	< .51
1,1-dichloropropene	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,2,3-Trichloropropane	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< 4.08	< .04	< .04	< 4	< .04	< .4
1,2,4-Trimethylbenzene	0.03	0.02	< 1.02	0.01	0.02	1.1	0.03	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,2-Dibromoethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,2-Dichlorobenzene	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
1,2-Dichloroethane	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
1,2-Dichloropropane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
1,3-Dichlorobenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
1,3-Dichloropropane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
1,4-Dichlorobenzene	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
2,2-Dichloropropane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
2-Butanone	< .04	< .04	< 4.08	0.05	0.22	< 4	< .04	< .4
2-Chlorotoluene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
4-Chlorotoluene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
Acetone	< .03	< .03	< 3.06	0.07	< .03	4.2	< .03	< .3
Benzene	1.2	0.5	< 3.06	< .03	0.53	< 3	0.39	0.47
Bromobenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
Bromochloromethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Bromodichloromethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Bromoform	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
Bromomethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Carbon Disulfide	0.1	< .04	< 4.08	< .04	< .04	< 4	0.06	< .4
Carbon Tetrachloride	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Chlorobenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
Chloroethane	< .08	< .08	< 8.16	< .08	0.25	< 8	2 J	0.88
Chloroform	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Chloromethane	< .03	0.07	< 3.06	0.08	0.11	< 3	0.05	< .3
Dibromochloromethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Dibromromethane	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Dichlorodifluoromethane	< .04	< .04	< 4.08	< .04	< .04	< 4	< .04	< .4
Ethylbenzene	0.1	0.09	< 1.02	0.01	0.06	< 1	0.07	0.18
Hexachlorobutadiene	< .04	< .04	< 4.08	< .04	< .04	< 4	< .04	< .4
Isopropylbenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
Methylene Chloride	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Naphthalene	0.07	0.1	< 3.06	0.05	0.07	< 3	0.3	< .3
Styrene	< .04	< .04	< 4.08	< .04	< .04	< 4	< .04	< .4
Tetrachloroethene	< .02	4.6 J	4.5	< .02	10 J	3.3	0.17	0.21
Toluene	0.68	0.36	< 11.22	< .11	0.38	< 11	0.35	< 1.11
Total Xylenes	< 4	0.15	0.16	< .04	0.12	< 4	< 4.08	0.18
Trichloroethene	< .03	0.96	< 3.06	< .03	1.9	< 3	0.18	< .3
Trichlorofluoromethane	< .05	< .05	< 5.1	< .05	0.07	< 5	< .05	19
Vinyl Chloride	< .07	18 J	28	< .07	32 J	9.1	21 J	9
cis-1,2-dichloroethene	< .03	0.64	< 3.06	< .03	1.5	< 3	0.67	0.77
cis-1,3-Dichloropropene	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
m & p-Xylenes	0.11	0.11	< 4.08	< .04	0.08	< 4	0.14	0.46
n-Butylbenzene	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
n-Propylbenzene	< .01	< .01	< 1.02	< .01	0.01	< 1	< .01	< .1
o-Xylene	0.04	0.05	< 1.02	< .01	0.04	< 1	0.04	0.16
p-Isopropyltoluene	< .02	< .02	< 2.04	< .02	< .02	< 2	< .02	< .2
s-Butylbenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
t-Butylbenzene	< .01	< .01	< 1.02	< .01	< .01	< 1	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .05	< 5.1	< .05	< .05	< 5	< .05	< .51
trans-1,3-dichloropropene	< .03	< .03	< 3.06	< .03	< .03	< 3	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	240	1440	1440		1440		15000	15000

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG140294	SG140394	SG140494	SG140594	SG140594	SG140694	SG140694	SG140794
Sample Identification Number:	SGG1402JE	SGG1403JE	SGG1404JE	SGG1405JE	SGG1945JE	SGG1406JE	SGG1406JE**	SGG1407JE**
Date Sampled:	10/20/94	10/20/94	10/18/94	11/29/94	11/14/94	11/7/94	11/7/94	11/7/94
Test Group:GC/MS Units: µg/L					EB			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	0.03	< 2.9	20
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	21 J	49	20
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	210 J	2700 J	110
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< 3.8	< 3.8
1,2,4-Trimethylbenzene	< .01	0.04	0.07	0.01	0.01	0.03	< 1	< 1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,3,5-Trimethylbenzene	< .01	0.01	0.02	< .01	< .01	< .01	< 1	< 1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
2-Butanone	< .04	0.3	0.24	< .04	< .04	0.13	< 3.8	< 3.8
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Benzene	0.91	0.35	0.56	0.44	< .03	0.2	< 2.9	< 2.9
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
Bromomethane	< .03	0.12	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Carbon Disulfide	0.11	0.05	< .04	0.04	< .04	< .04	< 3.8	< 3.8
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
Chloroethane	< .08	< .08	< .08	< .08	< .08	7 J	< 7.6	< 7.6
Chloroform	< .03	< .03	0.03	< .03	< .03	0.07	< 2.9	< 2.9
Chloromethane	0.1	0.13	< .03	0.15	< .03	2.6	< 2.9	< 2.9
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< 3.8	< 3.8
Ethylbenzene	0.03	0.06	0.1	0.03	< .01	0.07	< 1	< 1
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< 3.8	< 3.8
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Naphthalene	< .03	< .03	0.06	< .03	< .03	< .03	< 2.9	< 2.9
Styrene	< .04	< .04	0.06	< .04	< .04	< .04	< 3.8	< 3.8
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	6.8 J	15	< 1.9
Toluene	0.66	0.52	0.5	0.46	< .11	0.29	< 10.5	< 10.5
Total Xylenes	0.62	0.05	0.17	0.31	< .04	0.11	0.13	< 3.8
Trichloroethene	0.11	< .03	< .03	< .03	< .03	1.4	< 2.9	3
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< 4.8	28
Vinyl Chloride	0.81	1.4	< .07	2.6	< .07	113 J	120	< 6.7
cis-1,2-dichloroethene	0.52	< .03	< .03	0.04	< .03	15 J	34	12
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
m & p-Xylenes	0.04	0.11	0.18	0.08	< .04	0.09	< 3.8	< 3.8
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
n-Propylbenzene	< .01	0.02	0.02	< .01	< .01	0.02	< 1	< 1
o-Xylene	0.01	0.06	0.13	0.03	< .01	0.04	< 1	< 1
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< 1.9	< 1.9
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< 1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	58 J	110	< 4.8
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 2.9	< 2.9
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	170	1370	40					

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG140794	SG140794	SG140894	SG140994	SG141094	SG141194	SG141194	SG141194
Sample Identification Number:	SGG1938JE*	SGG1938JE**	SGG1408JE	SGG2092JE*R	SGG1410JE	SGG1411JE	SGG1411JE*	SGG1411JE**R
Date Sampled:	11/3/94	11/3/94	10/28/94	2/17/95	11/10/94	10/18/94	10/18/94	10/26/94
Test Group:GC/MS Units: µg/L	DUP	DUP						
1,1,1,2-Tetrachloroethane	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
1,1,1-Trichloroethane	25	19	< .03	< .3	< .03	< .03	< .3	< 3
1,1,2,2-Tetrachloroethane	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
1,1,2-Trichloroethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,1-Dichloroethane	19	20	< .03	< .3	< .03	0.17	< .3	< 3
1,1-Dichloroethene	88 J	99	< .05	< .5	< .05	2.6 J	1.8	23
1,1-dichloropropene	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,2,3-Trichlorobenzene	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,2,3-Trichloropropane	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
1,2,4-Trichlorobenzene	< .4	< 3.8	< .04	< .4	< .04	< .04	< .4	< 4
1,2,4-Trimethylbenzene	< .1	< 1	0.02	< .1	< .01	0.03	< .1	< 1
1,2-Dibromo-3-chloropropane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,2-Dibromoethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,2-Dichlorobenzene	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
1,2-Dichloroethane	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
1,2-Dichloropropane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,3,5-Trimethylbenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
1,3-Dichlorobenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
1,3-Dichloropropane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
1,4-Dichlorobenzene	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
2,2-Dichloropropane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
2-Butanone	< .4	< 3.8	0.09	< .4	0.05	< .04	0.57	< 4
2-Chlorotoluene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
4-Chlorotoluene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
Acetone	< .3	< 2.9	0.36	2	< .03	< .03	< .3	< 3
Benzene	< .3	< 2.9	0.33	1.1	0.2	0.72	0.87	< 3
Bromobenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
Bromochloromethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Bromodichloromethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Bromoform	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
Bromomethane	< .3	< 2.9	< .03	< .3	< .03	0.09	< .3	< 3
Carbon Disulfide	< .4	< 3.8	< .04	< .4	< .04	< .04	< .4	< 4
Carbon Tetrachloride	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Chlorobenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
Chloroethane	1.4	< 7.6	< .08	< .81	< .08	< .08	< .81	< 8
Chloroform	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Chloromethane	< .3	< 2.9	< .03	< .3	< .13	0.55	< .3	< 3
Dibromochloromethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Dibromromethane	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Dichlorodifluoromethane	< .4	< 3.8	< .04	< .4	< .04	< .04	< .4	< 4
Ethylbenzene	< .1	< 1	0.03	0.25	0.02	0.12	0.12	< 1
Hexachlorobutadiene	< .4	< 3.8	< .04	< .4	< .04	< .04	< .4	< 4
Isopropylbenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
Methylene Chloride	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Naphthalene	< .3	< 2.9	0.05	< .3	< .03	0.23	< .3	< 3
Styrene	< .4	< 3.8	< .04	< .4	< .04	0.04	< .4	< 4
Tetrachloroethene	< .2	< 1.9	< .02	< .2	0.03	0.04	< .2	< 2
Toluene	< 1.11	< 10.5	0.14	1.4	0.21	0.69	< 1.11	< 11
Total Xylenes	< .4	< 3.8	< 3.8	1.24	0.1		< .02	0.23
Trichloroethene	3.3	3.1	< .03	< .3	< .03	0.18	< .3	< 3
Trichlorofluoromethane	< .5	< 4.8	< .05	< .5	< .05	< .05	2.8	< 5
Vinyl Chloride	4.3	< 6.7	< .07	< .71	1.3	61 J	51 J	120
cis-1,2-dichloroethene	9.6	11	< .03	< .3	0.04	0.58	0.46	< 3
cis-1,3-Dichloropropene	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
m & p-Xylenes	< .4	< 3.8	< .04	0.98	< .04	0.16	< .4	< 4
n-Butylbenzene	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
n-Propylbenzene	< .1	< 1	0.01	< .1	< .01	0.02	< .1	< 1
o-Xylene	< .1	< 1	0.02	0.26	0.02	0.07	< .1	< 1
p-Isopropyltoluene	< .2	< 1.9	< .02	< .2	< .02	< .02	< .2	< 2
s-Butylbenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
t-Butylbenzene	< .1	< 1	< .01	< .1	< .01	< .01	< .1	< 1
trans-1,2-Dichloroethene	< .5	< 4.8	< .05	< .5	< .05	0.17	< .51	< 5
trans-1,3-dichloropropene	< .3	< 2.9	< .03	< .3	< .03	< .03	< .3	< 3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane			40					

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG141294	SG141294	SG141394	SG141494	SG141594	SG141694	SG141794	SG141794
Sample Identification Number:	SGG1412JE	SGG1919JE	SGG1413JE	SGG1414JE	SGG1415JE	SGG2093JER	SGG1417JE**R	SGG1417JE*R
Date Sampled:	10/19/94	10/19/94	10/20/94	10/20/94	10/20/94	2/17/95	10/26/94	10/26/94
Test Group:GC/MS Units: µg/L		EB						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	0.07	< 5	< .51
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< 4	< .4
1,2,4-Trimethylbenzene	0.05	0.02	0.05	0.04	< .01	< .01	< 1	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,3,5-Trimethylbenzene	0.01	< .01	0.01	0.01	< .01	< .01	< 1	< .1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
2-Butanone	0.17	< .04	0.11	0.41	0.16	< .04	< 4	< .4
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
Acetone	< .03	< .03	< .03	1.9	< .03	< .03	5.3	2.3
Benzene	1.3	< .03	0.57	0.45	0.75	0.09	< 3	0.38
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Carbon Disulfide	0.08	< .04	0.06	< .04	0.06	< .04	< 4	< .4
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< 8	< .81
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Chloromethane	0.04	0.1	0.03	< .03	< .03	< .03	< 3	< .3
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< 4	< .4
Ethylbenzene	0.2	0.01	0.04	0.06	0.08	< .01	< 1	< .1
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< 4	< .4
Isopropylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Naphthalene	0.16	0.07	< .03	< .03	0.06	< .03	< 3	< .3
Styrene	0.08	< .04	< .04	< .04	< .04	< .04	< 4	< .4
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	0.05	< 2	< .2
Toluene	1	< .11	0.34	0.58	0.53	< .11	< 11	< 1.11
Total Xylenes	< .4	< .01	< 4	0.39	0.13	< .04	< .4	0.19
Trichloroethene	< .03	< .03	< .03	< .03	< .03	0.05	< 3	< .3
Trichlorofluoromethane	< .05	< .05	0.1	0.18	< .05	0.06	< 5	< .51
Vinyl Chloride	< .07	< .07	1.9	0.34	< .07	2.2	< 7	< .71
cis-1,2-dichloroethene	< .03	< .03	0.13	0.25	0.05	0.48	< 3	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
m & p-Xylenes	0.25	< .04	0.09	0.12	0.08	< 2	< 4	< .4
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
n-Propylbenzene	0.03	< .01	< .01	< .01	< .01	< .01	< 1	< .1
o-Xylene	0.14	0.01	0.04	0.05	0.04	< .01	< 1	< .1
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< 2	< .2
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< 1	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< 5	< .51
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< 3	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	140		80	180	100		220	220

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG141894	SG141894	SG141894	SG141894	SG141994	SG141994	SG142094	SG142094
Sample Identification Number:	SGG1418JE	SGG1418JE*	SGG1418JE**	SGG1957JE	SGG1419JE	SGG1419JE**	SGG1420JE	SGG1420JE**
Date Sampled:	11/29/94	11/29/94	11/29/94	11/29/94	11/7/94	11/7/94	11/7/94	11/7/94
Test Group:GC/MS Units: µg/L				EB				
1,1,1,2-Tetrachloroethane	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
1,1,1-Trichloroethane	< .03	< .3	< 2.86	< .03	0.15	< 2.86	0.27	< 2.9
1,1,2,2-Tetrachloroethane	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
1,1,2-Trichloroethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,1-Dichloroethane	< .03	< .3	< 2.86	< .03	36 J	79	19 J	19
1,1-Dichloroethene	< .05	< .5	< 4.76	< .05	236 J	2500 J	102 J	280
1,1-dichloropropene	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,2,3-Trichlorobenzene	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,2,3-Trichloropropane	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
1,2,4-Trichlorobenzene	< .04	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 3.8
1,2,4-Trimethylbenzene	0.02	< .1	< .95	< .01	0.01	< .95	0.01	< 1
1,2-Dibromo-3-chloropropane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,2-Dibromoethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,2-Dichlorobenzene	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
1,2-Dichloroethane	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
1,2-Dichloropropane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,3,5-Trimethylbenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
1,3-Dichlorobenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
1,3-Dichloropropane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
1,4-Dichlorobenzene	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
2,2-Dichloropropane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
2-Butanone	< .04	< .4	< 3.81	< .04	< .04	< 3.81	0.18	< 3.8
2-Chlorotoluene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
4-Chlorotoluene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
Acetone	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Benzene	0.73	0.53	< 2.86	< .03	0.21	< 2.86	0.62	< 2.9
Bromobenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
Bromochloromethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Bromodichloromethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Bromoform	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
Bromomethane	< .03	< .3	< 2.86	< .03	0.09	< 2.86	< .03	< 2.9
Carbon Disulfide	< .04	< .4	< 3.81	< .04	< .04	< 3.81	0.17	< 3.8
Carbon Tetrachloride	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Chlorobenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
Chloroethane	< .08	< .81	< 7.62	< .08	2.6	< 7.62	9.5 J	< 7.6
Chloroform	< .03	< .3	< 2.86	< .03	0.16	< 2.86	< .03	< 2.9
Chloromethane	0.35	< .3	< 2.86	< .03	1.5	3.2	0.61	< 2.9
Dibromochloromethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Dibromromethane	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Dichlorodifluoromethane	< .04	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 3.8
Ethylbenzene	0.12	0.16	< .95	< .01	0.04	< .95	0.03	< 1
Hexachlorobutadiene	< .04	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 3.8
Isopropylbenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
Methylene Chloride	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Naphthalene	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Styrene	< .04	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 3.8
Tetrachloroethene	< .02	< .2	< 1.9	< .02	8.3 J	27	3.2	5.7
Toluene	2	2.7	< 10.48	< .11	0.29	< 10.48	0.58	< 10.5
Total Xylenes	< 4	< .4	0.43	< .04	0.7	< 3.81	0.08	< 3.81
Trichloroethene	0.05	< .3	< 2.86	< .03	1.1	< 2.86	1.2	< 2.9
Trichlorofluoromethane	< .05	< .5	< 4.76	< .05	< .05	< 4.76	< .05	59
Vinyl Chloride	30 J	14	12	< .07	45 J	34	20 J	7.4
cis-1,2-dichloroethene	0.18	< .3	< 2.86	< .03	34 J	100	26 J	52
cis-1,3-Dichloropropene	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
m & p-Xylenes	0.31	0.5	< 3.81	< .04	0.05	< 3.81	< .04	< 3.8
n-Butylbenzene	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
n-Propylbenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
o-Xylene	0.12	0.2	< .95	< .01	0.03	< .95	< .01	< 1
p-Isopropyltoluene	< .02	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 1.9
s-Butylbenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
t-Butylbenzene	< .01	< .1	< .95	< .01	< .01	< .95	< .01	< 1
trans-1,2-Dichloroethene	< .05	< .5	< 4.76	< .05	50 J	< 4.76	19 J	10
trans-1,3-dichloropropene	< .03	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 2.9
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG142094	SG142194	SG142294	SG142394	SG142394	SG142494	SG142494	SG142594
Sample Identification Number:	SGG1939JE**	SGG1421JE	SGG1422JE	SGG1423JE	SGG1917JE	SGG1424JE	SGG1424JE*	SGG1425JE*R
Date Sampled:	11/7/94	10/28/94	11/10/94	10/18/94	10/18/94	10/19/94	10/19/94	3/28/95
Test Group:GC/MS Units: µg/L	DUP				DUP			
1,1,1,2-Tetrachloroethane	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
1,1,1-Trichloroethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,1,2,2-Tetrachloroethane	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
1,1,2-Trichloroethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,1-Dichloroethane	17	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,1-Dichloroethene	260	< .05	< .05	< .05	< .05	< .05	< .51	< .5
1,1-dichloropropene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,2,3-Trichlorobenzene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,2,3-Trichloropropane	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
1,2,4-Trichlorobenzene	< 3.8	< .04	< .04	< .04	< .04	< .04	< .4	< .4
1,2,4-Trimethylbenzene	< 1	0.01	< .01	0.02	< .01	0.01	< .1	< .1
1,2-Dibromo-3-chloropropane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,2-Dibromoethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,2-Dichlorobenzene	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
1,2-Dichloroethane	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
1,2-Dichloropropane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,3,5-Trimethylbenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
1,3-Dichlorobenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
1,3-Dichloropropane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
1,4-Dichlorobenzene	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
2,2-Dichloropropane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
2-Butanone	< 3.8	0.05	< .04	< .04	< .04	0.23	< .4	< .4
2-Chlorotoluene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
4-Chlorotoluene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
Acetone	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	0.98
Benzene	< 2.9	0.32	0.2	< .03	< .03	1.7	1.4	0.57
Bromobenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
Bromochloromethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Bromodichloromethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Bromoform	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
Bromomethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Carbon Disulfide	< 3.8	0.06	< .04	< .04	< .04	0.14	< .4	< .4
Carbon Tetrachloride	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Chlorobenzene	< 1	< .01	0.02	< .01	< .01	< .01	< .1	< .1
Chloroethane	< 7.6	< .08	< .08	< .08	< .08	< .08	< .81	< .81
Chloroform	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Chloromethane	< 2.9	0.05	< .03	< .03	< .03	0.2	< .3	0.37
Dibromochloromethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Dibromromethane	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Dichlorodifluoromethane	< 3.8	< .04	< .04	< .04	< .04	< .04	< .4	< .4
Ethylbenzene	< 1	0.07	0.01	0.08	0.04	0.11	0.2	< .1
Hexachlorobutadiene	< 3.8	< .04	< .04	< .04	< .04	< .04	< .4	< .4
Isopropylbenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
Methylene Chloride	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Naphthalene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Styrene	< 3.8	< .04	< .04	< .04	< .04	< .04	< .4	< .4
Tetrachloroethene	5.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
Toluene	< 10.5	0.18	0.12	< .1	< .1	1	< 1.11	< 1.11
Total Xylenes	< 3.8	< .04	< 3.8	< .02	< .04	< .04	0.06	< .13
Trichloroethene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	0.5
Trichlorofluoromethane	< 4.8	< .05	< .05	< .05	< .05	< .05	< .51	3.7
Vinyl Chloride	12	< .07	0.43	< .07	< .07	2.8 J	5.3	2.6
cis-1,2-dichloroethene	46	< .03	< .03	< .03	< .03	0.03	< .3	0.58
cis-1,3-Dichloropropene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
m & p-Xylenes	< 3.8	< .04	< .04	0.05	< .04	0.14	< .4	< .4
n-Butylbenzene	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
n-Propylbenzene	< 1	0.04	< .01	< .01	< .01	< .01	< .1	< .1
o-Xylene	< 1	0.02	< .01	0.01	< .01	0.05	0.13	< .1
p-Isopropyltoluene	< 1.9	< .02	< .02	< .02	< .02	< .02	< .2	< .2
s-Butylbenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
t-Butylbenzene	< 1	< .01	< .01	< .01	< .01	< .01	< .1	< .1
trans-1,2-Dichloroethene	< 4.8	< .05	< .05	< .05	< .05	< .05	< .51	< .5
trans-1,3-dichloropropene	< 2.9	< .03	< .03	< .03	< .03	< .03	< .3	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		40						

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG142694	SG142794	SG142794	SG142794	SG142894	SG142994	SG143094	SG143094
Sample Identification Number:	SGG1426JE	SGG1427JE	SGG1427JE*	SGG1427JE**	SGG1428JE	SGG1429JE	SGG1430JE	SGG1925JE
Date Sampled:	10/21/94	10/21/94	10/21/94	10/21/94	10/25/94	10/25/94	10/25/94	10/25/94
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .51	< 5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< 4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	0.02	< .1	1.4	0.03	0.03	0.07	0.04
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< 1	< .01	< .01	0.02	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
2-Butanone	0.07	< .04	< .4	< 4	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.9	< 3	0.26	0.1	< .03	0.04
Benzene	0.63	1	0.42	< 3	0.09	0.04	0.12	0.04
Bromobenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	0.13	< .4	< 4	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .81	< 8	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.06	1.2	3.2	< .03	< .03	< .03	< .03
Dibromochloromethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< 4	< .04	< .04	< .04	< .04
Ethylbenzene	0.04	0.07	0.13	< 1	0.05	< .01	0.06	0.01
Hexachlorobutadiene	< .04	< .04	< .4	< 4	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< 3	0.07	< .03	0.21	0.18
Styrene	< .04	< .04	< .4	< 4	< .04	< .04	< .04	< .04
Tetrachloroethene	0.02	0.22	< .2	< 2	0.27	< .02	0.02	< .02
Toluene	0.43	0.79	< 1.11	< 11	< .11	< .11	0.3	< .11
Total Xylenes	0.17	0.14	< .4	< 4	0.18	< .01	0.25	0.07
Trichloroethene	< .03	0.15	< .3	< 3	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .51	< 5	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	29 J	5.1	10	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	0.46	< .3	< 3	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
m & p-Xylenes	0.07	0.11	< .4	< 4	0.13	< .04	0.22	0.05
n-Butylbenzene	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .1	< 1	0.01	< .01	< .01	< .01
o-Xylene	0.02	0.03	< .1	< 1	0.05	0.01	0.03	0.02
p-Isopropyltoluene	< .02	< .02	< .2	< 2	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .1	< 1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .51	< 5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	100	460	460	460	20	40	40	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG143194	SG143194	SG143194	SG143294	SG143294	SG143294	SG143294	SG143294
Sample Identification Number:	SGG1431JE	SGG1431JE*	SGG1431JE**	SGG1432JE	SGG1432JE*	SGG1432JE**R	SGG1918JE	SGG1918JE*
Date Sampled:	10/19/94	10/19/94	10/19/94	10/18/94	10/18/94	10/26/94	10/18/94	10/18/94
Test Group:GC/MS Units: µg/L							DUP	DUP
1,1,1,2-Tetrachloroethane	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
1,1,1-Trichloroethane	0.03	< .3	< 3	0.34	< .3	< 3	0.14	< .3
1,1,2,2-Tetrachloroethane	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
1,1,2-Trichloroethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,1-Dichloroethane	0.16	< .3	< 3	0.3	< .3	< 3	0.28	< .3
1,1-Dichloroethene	< .05	< .51	< 5	< .05	< .51	< 5	0.1	< .51
1,1-dichloropropene	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,2,3-Trichloropropane	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .4	< 4	< .04	< .4	< 4	< .04	< .4
1,2,4-Trimethylbenzene	0.03	< .1	3.5	0.06	< .1	< 1	0.07	< .1
1,2-Dibromo-3-chloropropane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,2-Dibromoethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,2-Dichlorobenzene	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
1,2-Dichloroethane	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
1,2-Dichloropropane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,3,5-Trimethylbenzene	0.01	< .1	< 1	0.02	< .1	< 1	0.03	< .1
1,3-Dichlorobenzene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
1,3-Dichloropropane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
1,4-Dichlorobenzene	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
2,2-Dichloropropane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
2-Butanone	< .04	< .4	< 4	< .04	< .4	< 4	< .04	< .4
2-Chlorotoluene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
4-Chlorotoluene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
Acetone	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Benzene	0.65	0.81	< 3	0.87	0.55	< 3	0.46	1.1
Bromobenzene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
Bromochloromethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Bromodichloromethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Bromoform	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
Bromomethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Carbon Disulfide	< .04	< .4	< 4	0.05	< .4	< 4	< .04	< .4
Carbon Tetrachloride	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Chlorobenzene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
Chloroethane	0.26	< .81	< 8	< .08	< .81	< 8	< .08	< .81
Chloroform	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Chloromethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Dibromochloromethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Dibromromethane	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Dichlorodifluoromethane	< .04	< .4	< 4	< .04	< .4	< 4	< .04	< .4
Ethylbenzene	0.15	0.17	4.5	0.24	0.38	< 1	0.34	0.24
Hexachlorobutadiene	< .04	< .4	< 4	< .04	< .4	< 4	< .04	< .4
Isopropylbenzene	0.02	< .1	< 1	0.04	< .1	< 1	0.06	< .1
Methylene Chloride	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Naphthalene	0.06	< .3	< 3	< .03	< .3	< 3	0.04	< .3
Styrene	< .04	< .4	< 4	< .04	< .4	< 4	< .04	< .4
Tetrachloroethene	0.1	< .2	< 2	0.08	< .2	< 2	0.06	< .2
Toluene	0.87	< 1.11	< 11	0.68	< 1.11	< 11	0.51	< 1.11
Total Xylenes	0.47	0.71	18.1	0.44	0.67	< 4	0.56	< .13
Trichloroethene	< .03	< .3	< 3	0.06	< .3	< 3	0.05	< .3
Trichlorofluoromethane	< .05	< .51	< 5	0.36	55 J	< 5	< .05	< .51
Vinyl Chloride	19 J	41 J	9.3	29 J	23 J	< 7	26 J	24
cis-1,2-dichloroethene	0.06	< .3	< 3	0.19	< .3	< 3	0.17	< .3
cis-1,3-Dichloropropene	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
m & p-Xylenes	0.3	0.46	14	0.33	0.51	< 4	0.43	< .4
n-Butylbenzene	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
n-Propylbenzene	0.01	< .1	< 1	0.03	< .1	< 1	0.04	< .1
o-Xylene	0.17	0.25	4.1	0.11	0.16	< 1	0.13	0.13
p-Isopropyltoluene	< .02	< .2	< 2	< .02	< .2	< 2	< .02	< .2
s-Butylbenzene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
t-Butylbenzene	< .01	< .1	< 1	< .01	< .1	< 1	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .51	< 5	< .05	< .51	< 5	< .05	< .51
trans-1,3-dichloropropene	< .03	< .3	< 3	< .03	< .3	< 3	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide						130		
Methane				1918		1980		

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG143294	SG143394	SG143394	SG143394	SG143394	SG143494	SG143494	SG143594
Sample Identification Number:	SGG1918JE**R	SGG1433JE	SGG1433JE*	SGG1433JE**	SGG1916JE	SGG1434JE	SGG1941JE	SGG1435JE
Date Sampled:	10/26/94	10/18/94	10/18/94	10/18/94	10/18/94	11/10/94	11/10/94	11/10/94
Test Group:GC/MS Units: µg/L	DUP				EB		EB	
1,1,1,2-Tetrachloroethane	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< 3	0.13	< .3	< 3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< 5	0.24	< .51	< 5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< 4	< .04	< .4	< 4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< 1	0.24	0.37	< 1	0.01	0.01	0.03	0.02
1,2-Dibromo-3-chloropropane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< 1	0.11	0.17	< 1	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
2-Butanone	< 4	< .04	< .4	< 4	< .04	0.07	< .04	0.08
2-Chlorotoluene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Acetone	4	< .03	< .3	4.8	< .03	< .03	< .03	0.56
Benzene	< 3	1.2	1.6	4.3	< .03	0.23	< .03	0.43
Bromobenzene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Bromochloromethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Bromodichloromethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Bromoform	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
Bromomethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Carbon Disulfide	< 4	0.05	< .4	< 4	< .04	< .04	< .04	0.05
Carbon Tetrachloride	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Chlorobenzene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
Chloroethane	< 8	< .08	< .81	< 8	< .08	< .08	< .08	< .08
Chloroform	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Chloromethane	< 3	0.35	1.3	< 3	0.08	0.1	0.34	< .03
Dibromochloromethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Dibromromethane	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< 4	< .04	< .4	< 4	< .04	< .04	< .04	< .04
Ethylbenzene	< 1	3.4 J	4.2	7.9	< .01	0.03	< .01	0.05
Hexachlorobutadiene	< 4	< .04	< .4	< 4	< .04	< .04	< .04	< .04
Isopropylbenzene	< 1	0.05	< .1	< 1	< .01	< .01	< .01	< .01
Methylene Chloride	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Naphthalene	< 3	0.08	< .3	< 3	0.19	< .03	< .03	< .03
Styrene	< 4	0.06	< .4	< 4	< .04	< .04	< .04	< .04
Tetrachloroethene	< 2	0.03	< .2	< 2	< .02	< .02	0.07	< .02
Toluene	< 11	0.93	< 1.11	< 11	< .11	0.32	< .11	0.63
Total Xylenes	< 4	1.51	1.87	< 4	< .04	0.06	< .01	0.11
Trichloroethene	< 3	0.15	< .3	< 3	< .03	< .03	0.11	< .03
Trichlorofluoromethane	< 5	< .05	< .51	< 5	0.25	< .05	< .05	< .05
Vinyl Chloride	< 7	8.4 J	9.9	31	< .07	1.6	< .07	0.16
cis-1,2-dichloroethene	< 3	0.31	0.52	< 3	< .03	0.06	< .03	0.07
cis-1,3-Dichloropropene	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
m & p-Xylenes	< 4	1.2	1.5	< 4	< .04	0.04	< .04	0.06
n-Butylbenzene	< 2	0.03	< .2	< 2	< .02	< .02	< .02	< .02
n-Propylbenzene	< 1	0.06	< .1	< 1	< .01	< .01	< .01	0.01
o-Xylene	< 1	0.31	0.37	< 1	< .01	0.02	0.01	0.05
p-Isopropyltoluene	< 2	< .02	< .2	< 2	< .02	< .02	< .02	< .02
s-Butylbenzene	< 1	0.03	< .1	< 1	< .01	< .01	< .01	< .01
t-Butylbenzene	< 1	< .01	< .1	< 1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< 5	< .05	< .51	< 5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< 3	< .03	< .3	< 3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	130							

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG143694	SG143694	SG143794	SG143794	SG143894	SG143994	SG143994	SG144094	SG144194
Sample Identification Number:	SGG1436JE	SGG1942JE	SGG1437JE	SGG1437JE*	SGG1438JE	SGG1439JE	SGG1439JE*	SGG1440JE	SGG144[illegible]JE
Date Sampled:	11/10/94	11/10/94	11/11/94	11/11/94	11/11/94	11/11/94	11/11/94	11/11/94	11/1[illegible]
Test Group:GC/MS Units: µg/L		DUP							
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .5	< .05	< .05	< .5	< .05	0.06
1,1-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.02	< .1	0.02	0.01	< .1	0.02	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .3	< .03	0.05	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
2-Butanone	0.08	0.08	0.14	< .4	0.06	0.1	< .4	0.12	0.06
2-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
Acetone	0.29	0.29	< .03	2	< .03	1.1	1.1	< .03	< .03
Benzene	0.19	0.15	1.1	0.67	0.7	0.26	< .3	0.52	0.31
Bromobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Bromoform	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .0[illegible]
Carbon Disulfide	0.08	0.07	0.2	< .4	0.08	< .04	< .4	0.05	< .[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .0[illegible]
Chlorobenzene	< .01	< .01	0.01	< .1	< .01	< .01	< .1	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .81	< .08	< .08	< .81	< .08	< .08
Chloroform	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Chloromethane	< .03	< .03	0.04	< .3	< .03	< .03	< .3	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04
Ethylbenzene	0.02	0.01	0.07	< .1	0.05	0.05	< .1	0.04	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Styrene	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
Toluene	0.19	< .11	7.3 J	9.1	2.4	4.7 J	5.4	1.9	0.26
Total Xylenes	< .01	< .01	0.19	< .4	0.07	0.18	< .4	0.08	< .01
Trichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .5	< .05	< .05	< .5	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .71	< .07	0.15	< .71	< .07	4.2 J
cis-1,2-dichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	0.11
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	< .04	< .04	0.15	< .4	0.05	0.14	< .4	0.06	< .04
n-Butylbenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
o-Xylene	0.01	0.01	0.04	< .1	0.02	0.04	< .1	0.02	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .5	< .05	< .05	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG144194	SG144294	SG144294	SG144394	SG144494	SG144494	SG144594	SG144694
Sample Identification Number:	SGG1441JE*	SGG1442JE	SGG1943JE	SGG1443JE	SGG1444JE	SGG1444JE*	SGG1445JE	SGG1446JE
Date Sampled:	11/11/94	11/11/94	11/11/94	11/14/94	11/14/94	11/14/94	10/28/94	11/7/94
Test Group:GC/MS Units: µg/L			EB					
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	0.03	0.13	< .3	< .03	0.21
1,1-Dichloroethene	0.53	< .05	< .05	0.1	1.8	2.5	< .05	2.8
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .1	0.02	0.02	0.02	0.02	< .1	< .01	0.04
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	0.01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
2-Butanone	< .4	0.07	< .04	0.04	0.1	< .4	< .04	0.1
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Acetone	< .3	< .03	0.05	< .03	< .03	< .3	< .03	< .03
Benzene	0.46	0.73	< .03	0.41	0.59	0.48	0.1	0.28
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Carbon Disulfide	< .4	< .04	< .04	< .04	0.14	< .4	< .04	< .04
Carbon Tetrachloride	< .3	< .03	< .03	1.4	< .03	< .3	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< .81	< .08	< .08
Chloroform	< .3	< .03	< .03	0.67	0.09	< .3	< .03	< .03
Chloromethane	< .3	< .03	< .03	0.08	0.16	< .3	< .03	0.07
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	0.66	< .04	< .04	0.17	< .04	< .4	< .04	< .04
Ethylbenzene	< .1	0.19	0.01	0.06	0.08	< .1	0.02	0.08
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .1	0.02	< .01	< .01	< .01	< .1	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Styrene	< .4	0.05	< .04	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	< .2	0.32	< .02	1.8	0.5	0.73	< .02	5.4 J
Toluene	< 1.11	2.8	< .11	0.45	1.6	1.9	< .11	0.36
Total Xylenes	< .4	0.35	< .02	0.1	0.13	< .4	< .02	0.17
Trichloroethene	< .3	< .03	< .03	0.04	0.13	< .3	< .03	1.8
Trichlorofluoromethane	12	0.08	0.58	< .05	< .05	< .5	< .05	< .05
Vinyl Chloride	5.2	< .07	< .07	< .07	14 J	11	< .07	1.6
cis-1,2-dichloroethene	0.95	< .03	< .03	0.09	0.79	1.2	< .03	3.9
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	< .4	0.24	< .04	0.07	0.09	< .4	< .04	0.11
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
n-Propylbenzene	< .1	0.02	< .01	< .01	0.01	< .1	< .01	0.02
o-Xylene	< .1	0.11	0.02	0.03	0.04	< .1	0.02	0.06
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .2	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	0.01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	0.08	< .5	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide							30	
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG144694	SG144794	SG144794	SG144894	SG144894	SG144894	SG144894	SG144894
Sample Identification Number:	SGG1446JE*	SGG1447JE	SGG1447JE**	SGG1448JE	SGG1448JE*	SGG1448JE**	SGG1930JE	SGG1930JE*
Date Sampled:	11/7/94	11/7/94	11/7/94	10/28/94	10/28/94	11/7/94	10/28/94	10/28/94
Test Group:GC/MS Units: µg/L							DUP	DUP
1,1,1,2-Tetrachloroethane	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
1,1,1-Trichloroethane	< .3	< .03	< 2.86	1.4	0.95	< 2.86	1.7	1.1
1,1,2,2-Tetrachloroethane	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
1,1,2-Trichloroethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,1-Dichloroethane	< .3	< .03	< 2.86	2.2	1.6	< 2.86	2.5	1.8
1,1-Dichloroethene	2.8	2.1	5	83 J	47 J	< 4.76	87 J	48 J
1,1-dichloropropene	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,2,3-Trichlorobenzene	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,2,3-Trichloropropane	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
1,2,4-Trichlorobenzene	< .4	< .04	< 3.81	< .04	< .4	< 3.81	< .04	< .4
1,2,4-Trimethylbenzene	< .1	0.02	< .95	0.04	< .1	< .95	0.06	< .1
1,2-Dibromo-3-chloropropane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,2-Dibromoethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,2-Dichlorobenzene	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
1,2-Dichloroethane	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
1,2-Dichloropropane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,3,5-Trimethylbenzene	< .1	< .01	< .95	0.02	< .1	< .95	0.02	< .1
1,3-Dichlorobenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
1,3-Dichloropropane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
1,4-Dichlorobenzene	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
2,2-Dichloropropane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
2-Butanone	< .4	2.1	6.9	0.06	< .4	< 3.81	< .04	< .4
2-Chlorotoluene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
4-Chlorotoluene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
Acetone	0.53	2.7	4.1	< .03	< .3	< 2.86	< .03	< .3
Benzene	< .3	0.31	< 2.86	0.14	< .3	< 2.86	0.08	< .3
Bromobenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
Bromochloromethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Bromodichloromethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Bromoform	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
Bromomethane	< .3	< .03	< 2.86	0.09	< .3	< 2.86	0.1	< .3
Carbon Disulfide	< .4	< .04	< 3.81	< .04	< .4	< 3.81	< .04	< .4
Carbon Tetrachloride	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Chlorobenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
Chloroethane	< .81	< .08	< 7.62	< .08	< .81	< 7.62	< .08	< .81
Chloroform	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Chloromethane	0.66	0.79	< 2.86	0.83	2.1	< 2.86	0.87	1.3
Dibromochloromethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Dibromromethane	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Dichlorodifluoromethane	< .4	< .04	< 3.81	< .04	< .4	< 3.81	< .04	< .4
Ethylbenzene	< .1	0.09	< .95	0.07	< .1	< .95	0.03	< .1
Hexachlorobutadiene	< .4	< .04	< 3.81	< .04	< .4	< 3.81	< .04	< .4
Isopropylbenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
Methylene Chloride	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Naphthalene	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Styrene	< .4	< .04	< 3.81	< .04	< .4	< 3.81	< .04	< .4
Tetrachloroethene	5.8	17 J	100	11 J	41 J	13	16 J	43 J
Toluene	< 1.11	0.44	< 10.48	0.55	< 1.11	< 10.48	0.38	< 1.11
Total Xylenes	< .4	0.23	< 3.81	0.33	< .4	< 3.81	0.15	< .4
Trichloroethene	1.6	51 J	540 J	4.5 J	4.9	< 2.86	6.6 J	5.4
Trichlorofluoromethane	< .5	< .05	< 4.76	< .05	< .51	< 4.76	< .05	< .51
Vinyl Chloride	0.86	< .07	< 6.67	6 J	1.9	< 6.67	6.5 J	1.9
cis-1,2-dichloroethene	4.3	42 J	130	44 J	42 J	< 2.86	46 J	43 J
cis-1,3-Dichloropropene	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
m & p-Xylenes	< .4	0.16	< 3.81	0.23	< .4	< 3.81	0.1	< .4
n-Butylbenzene	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
n-Propylbenzene	< .1	0.01	< .95	0.01	< .1	< .95	0.01	< .1
o-Xylene	< .1	0.07	< .95	0.1	< .1	< .95	0.05	< .1
p-Isopropyltoluene	< .2	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .2
s-Butylbenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
t-Butylbenzene	< .1	< .01	< .95	< .01	< .1	< .95	< .01	< .1
trans-1,2-Dichloroethene	< .5	0.4	< 4.76	3.7	2	51	4.2 J	2.1
trans-1,3-dichloropropene	< .3	< .03	< 2.86	< .03	< .3	< 2.86	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane				850			850	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG144994	SG145094	SG145094	SG145194	SG145294	SG145394	SG145394	SG145394
Sample Identification Number:	SGG2094JER	SGG1450JE	SGG1944JE	SGG1451JE	SGG2095JE**R	SGG1453JE	SGG1453JE*	SGG1924JE
Date Sampled:	2/17/95	11/11/94	11/11/94	11/11/94	2/17/95	10/21/94	10/21/94	10/21/94
Test Group:GC/MS Units: µg/L			DUP					
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< 2.9	0.86	0.39	0.6
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,1-Dichloroethane	< .03	< .03	< .03	0.04	< 2.9	0.07	< .3	0.06
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< 4.8	< .05	< .51	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< 3.8	< .04	< .4	< .04
1,2,4-Trimethylbenzene	0.05	0.02	< .01	0.01	< 1	0.05	< .1	0.04
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,3,5-Trimethylbenzene	0.02	< .01	< .01	< .01	< 1	0.02	< .1	0.02
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
2-Butanone	0.14	0.07	< .04	0.06	< 3.8	0.17	< .4	0.12
2-Chlorotoluene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
Acetone	0.92	0.37	< .03	< .03	< 2.9	< .03	0.81	0.32
Benzene	0.43	0.17	< .03	0.48	< 2.9	0.47	0.41	0.26
Bromobenzene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Bromoform	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Carbon Disulfide	0.06	0.05	< .04	0.05	< 3.8	< .04	< .4	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< 7.6	< .08	< .81	< .08
Chloroform	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Chloromethane	0.04	0.12	< .03	< .03	< 2.9	< .03	< .3	0.03
Dibromochloromethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< 3.8	< .04	< .4	< .04
Ethylbenzene	0.06	0.03	< .01	0.06	< 1	0.13	0.15	0.08
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< 3.8	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< 1	0.01	< .1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Naphthalene	< .03	< .03	< .03	< .03	< 2.9	0.28	< .3	0.42
Styrene	< .04	< .04	< .04	< .04	< 3.8	0.08	< .4	0.05
Tetrachloroethene	0.11	0.03	< .02	< .02	11	3.6 J	2.6	3.1 J
Toluene	0.27	1.4	< .11	0.79	< 10	0.51	< 1.11	0.34
Total Xylenes	0.16	0.1	< .04	0.11	< 3.8	0.29	< .17	0.22
Trichloroethene	0.06	< .03	< .03	< .03	10	0.56	0.39	0.43
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< 4.8	< .05	< .51	< .05
Vinyl Chloride	< .07	< .07	< .07	3.1	31	0.51	< .71	0.28
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< 2.9	2.2 J	1.1	1.9
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
m & p-Xylenes	0.12	0.08	< .04	0.08	< 2	0.19	< .4	0.14
n-Butylbenzene	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
n-Propylbenzene	0.01	< .01	< .01	< .01	< 1	0.02	< .1	0.02
o-Xylene	0.04	0.02	< .01	0.03	< 1	0.1	0.17	0.08
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< 1.9	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< 1	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< 4.8	< .05	< .51	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< 2.9	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane						130	130	130

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG145494	SG145594	SG145694	SG145794	SG145894	SG145894	SG145894	SG145994
Sample Identification Number:	SGG1454JE	SGG1455JE	SGG1456JE	SGG1457JE	SGG1458JE	SGG1458JE*	SGG1458JE**R	SGG1459JE
Date Sampled:	10/25/94	10/25/94	10/26/94	10/14/94	10/17/94	10/17/94	10/26/94	10/17/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	0.07	< .3	< 3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .51	< 5	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .4	< 4	< .04
1,2,4-Trimethylbenzene	0.03	0.04	0.03	0.03	0.11	0.23	< 1	0.06
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	0.07	0.14	< 1	0.02
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
2-Butanone	< .04	< .04	< .04	0.09	< .04	< .4	< 4	0.07
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
Acetone	0.29	< .03	< .03	< .03	< .03	< .3	< 3	0.24
Benzene	0.14	0.33	1.1	0.34	1	0.71	< 3	0.09
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	0.05	< .4	< 4	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .81	< 8	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .3	< 3	0.05
Chloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .4	< 4	< .04
Ethylbenzene	0.07	0.09	0.25	0.06	0.12	0.17	< 1	0.03
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .4	< 4	< .04
Isopropylbenzene	< .01	< .01	0.02	< .01	0.03	< .1	< 1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Naphthalene	0.17	0.15	0.19	0.04	< .03	< .3	< 3	< .03
Styrene	< .04	< .04	0.14	< .04	0.04	< .4	< 4	< .04
Tetrachloroethene	0.04	0.12	< .02	1.8	18 J	59 J	< 2	1.9
Toluene	0.13	0.29	0.68	0.22	0.75	< 1.11	< 11	< .1
Total Xylenes	0.11	0.17	0.24	0.13	0.36	0.64	< 4	0.07
Trichloroethene	0.17	< .03	< .03	< .03	3.2 J	3.6	< 3	0.03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .51	< 5	< .05
Vinyl Chloride	3.7	< .07	< .07	< .07	0.75	< .71	< 7	< .07
cis-1,2-dichloroethene	0.37	< .03	< .03	< .03	1.7	2	< 3	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
m & p-Xylenes	0.07	0.12	0.16	0.1	0.22	0.42	< 4	0.05
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
n-Propylbenzene	0.01	< .01	0.04	0.02	< .01	< .1	< 1	0.01
o-Xylene	0.04	0.05	0.08	0.03	0.14	0.22	< 1	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .2	< 2	< .02
s-Butylbenzene	< .01	< .01	0.01	< .01	0.03	< .1	< 1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .1	< 1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .51	< 5	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .3	< 3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	470	90	70		120	120	220	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG146094	SG146094	SG146194	SG146194	SG146294	SG146394	SG146494	SG146594
Sample Identification Number:	SGG1460JE	SGG1460JE**R	SGG1461JE	SGG1461JE**	SGG1462JE	SGG2096JE*R	SGG1464JE	SGG1465JE
Date Sampled:	10/18/94	10/26/94	10/19/94	10/19/94	11/11/94	2/17/95	10/28/94	11/7/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	< 3	< .03	< 3	< .03	0.54	< .03	0.54
1,1,2,2-Tetrachloroethane	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,1-Dichloroethane	0.08	< 3	0.06	< 3	0.04	< .3	< .03	1.7
1,1-Dichloroethene	0.06	< 5	0.77	< 5	0.14	2.7	< .05	63 J
1,1-dichloropropene	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< 4	< .04	< 4	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	0.03	< 1	0.02	< 1	0.05	< .1	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< 1	< .01	< 1	0.01	< .1	< .01	< .01
1,3-Dichlorobenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
2-Butanone	< .04	< 4	0.19	< 4	0.09	< .4	< .04	< .04
2-Chlorotoluene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
Acetone	< .03	< 3	< .03	< 3	0.55	< .3	< .03	< .03
Benzene	0.2	< 3	1.4	< 3	0.41	0.83	0.54	0.11
Bromobenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Bromoform	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
Bromomethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	0.12
Carbon Disulfide	0.05	< 4	0.06	< 4	0.16	< .4	< .04	< .04
Carbon Tetrachloride	< .03	< 3	< .03	< 3	< .03	8.4	< .03	< .03
Chlorobenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
Chloroethane	< .08	< 8	< .08	< 8	< .08	< .81	< .08	< .08
Chloroform	< .03	< 3	< .03	< 3	< .03	2.8	< .03	< .03
Chloromethane	0.06	< 3	< .03	< 3	0.04	< .3	0.05	3.4
Dibromochloromethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	1.1	< 4	< .04	< 4	< .04	< .4	< .04	< .04
Ethylbenzene	0.04	< 1	0.1	< 1	0.08	< .1	< .01	0.66
Hexachlorobutadiene	< .04	< 4	< .04	< 4	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
Methylene Chloride	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Naphthalene	0.2	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Styrene	< .04	< 4	< .04	< 4	< .04	< .4	< .04	0.09
Tetrachloroethene	0.13	< 2	< .02	< 2	< .02	1.5	< .02	854 J
Toluene	0.3	< 11	1.6	< 11	2.5	< 1.11	0.11	0.37
Total Xylenes	0.1	< 4	0.18	< 4	0.23	< .4	< .01	1.41
Trichloroethene	< .03	< 3	0.05	< 3	< .03	< .3	< .03	17 J
Trichlorofluoromethane	< .05	< 5	< .05	< 5	< .05	38	< .05	< .05
Vinyl Chloride	27 J	30	48 J	91	0.13	< .71	< .07	5.9 J
cis-1,2-dichloroethene	0.04	< 3	1.5	< 3	0.04	< .3	< .03	39 J
cis-1,3-Dichloropropene	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
m & p-Xylenes	0.07	< 4	0.13	< 4	0.16	< 2	< .04	1.1
n-Butylbenzene	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
n-Propylbenzene	0.01	< 1	< .01	< 1	0.01	< .1	< .01	< .01
o-Xylene	0.03	< 1	0.05	< 1	0.07	< .1	0.01	0.31
p-Isopropyltoluene	< .02	< 2	< .02	< 2	< .02	< .2	< .02	< .02
s-Butylbenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
t-Butylbenzene	< .01	< 1	< .01	< 1	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< 5	0.07	< 5	< .05	< .5	< .05	3
trans-1,3-dichloropropene	< .03	< 3	< .03	< 3	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		60					50	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG146594	SG146694	SG146694	SG146794	SG146794	SG146794	SG146894	SG146894
Sample Identification Number:	SGG1465JE**	SGG1466JE	SGG1466JE**	SGG1467JE	SGG1467JE*	SGG1467JE**R	SGG1468JE	SGG1929JE
Date Sampled:	11/7/94	11/7/94	11/7/94	10/28/94	10/28/94	11/7/94	10/28/94	10/28/94
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
1,1,1-Trichloroethane	< 2.9	1.3	< 2.9	1.3	0.59	< 2.86	< .03	< .03
1,1,2,2-Tetrachloroethane	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
1,1,2-Trichloroethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,1-Dichloroethane	< 2.9	2.1	3.4	2.3	0.68	< 2.86	< .03	< .03
1,1-Dichloroethene	72	65 J	88	72 J	29	17	< .05	< .05
1,1-dichloropropene	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,2,3-Trichlorobenzene	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,2,3-Trichloropropane	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
1,2,4-Trichlorobenzene	< 3.8	< .04	< 3.8	< .04	< .4	< 3.81	< .04	< .04
1,2,4-Trimethylbenzene	< 1	< .01	< 1	0.05	< .1	< .95	0.02	< .01
1,2-Dibromo-3-chloropropane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,2-Dibromoethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,2-Dichlorobenzene	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
1,2-Dichloroethane	< 1.9	0.07	< 1.9	< .02	< .2	< 1.9	< .02	< .02
1,2-Dichloropropane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,3,5-Trimethylbenzene	< 1	< .01	< 1	0.02	< .1	< .95	< .01	< .01
1,3-Dichlorobenzene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
1,3-Dichloropropane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
1,4-Dichlorobenzene	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
2,2-Dichloropropane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
2-Butanone	< 3.8	< .04	< 3.8	0.12	0.58	< 3.81	0.07	< .04
2-Chlorotoluene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
4-Chlorotoluene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
Acetone	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	0.26	0.06
Benzene	< 2.9	0.08	< 2.9	0.19	< .3	< 2.86	0.13	< .03
Bromobenzene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
Bromochloromethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Bromodichloromethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Bromoform	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
Bromomethane	< 2.9	0.05	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Carbon Disulfide	< 3.8	< .04	< 3.8	< .04	< .4	< 3.81	< .04	< .04
Carbon Tetrachloride	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Chlorobenzene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
Chloroethane	< 7.6	< .08	< 7.6	0.12	< .81	< 7.62	< .08	< .08
Chloroform	< 2.9	0.04	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Chloromethane	< 2.9	2.1	< 2.9	1.8	2	< 2.86	< .03	< .03
Dibromochloromethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Dibromromethane	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Dichlorodifluoromethane	< 3.8	< .04	< 3.8	< .04	< .4	< 3.81	< .04	< .04
Ethylbenzene	< 1	0.04	< 1	0.06	0.18	< .95	0.03	< .01
Hexachlorobutadiene	< 3.8	< .04	< 3.8	< .04	< .4	< 3.81	< .04	< .04
Isopropylbenzene	< 1	< .01	< 1	0.01	< .1	< .95	< .01	< .01
Methylene Chloride	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Naphthalene	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Styrene	< 3.8	< .04	< 3.8	< .04	< .4	< 3.81	< .04	< .04
Tetrachloroethene	300	8 J	18	7.1 J	8.3	< 1.9	0.02	< .02
Toluene	< 10.5	0.13	< 10.5	0.3	< 1.11	< 10.48	< .11	< .11
Total Xylenes	< 3.8	0.07	< 3.8	0.18	0.66	< 3.81	0.06	< .04
Trichloroethene	29	1.6	< 2.9	2.3	1.6	26	< .03	< .03
Trichlorofluoromethane	13	5 J	6.8	< .05	< .51	< 4.76	< .05	< .05
Vinyl Chloride	< 6.7	16 J	< 6.7	5.4 J	1.3	< 6.67	< .07	< .07
cis-1,2-dichloroethene	70	28 J	42	18 J	10	4.4	< .03	< .03
cis-1,3-Dichloropropene	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
m & p-Xylenes	< 3.8	0.05	< 3.8	0.11	0.49	< 3.81	0.04	< .04
n-Butylbenzene	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
n-Propylbenzene	< 1	< .01	< 1	0.02	< .1	< .95	< .01	< .01
o-Xylene	< 1	0.02	< 1	0.07	0.17	< .95	0.02	< .01
p-Isopropyltoluene	< 1.9	< .02	< 1.9	< .02	< .2	< 1.9	< .02	< .02
s-Butylbenzene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
t-Butylbenzene	< 1	< .01	< 1	< .01	< .1	< .95	< .01	< .01
trans-1,2-Dichloroethene	< 4.8	< .05	< 4.8	3.3	1.1	< 4.76	< .05	< .05
trans-1,3-dichloropropene	< 2.9	< .03	< 2.9	< .03	< .3	< 2.86	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane				70			60	

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG146994	SG147094	SG147194	SG147294	SG147394	SG147394	SG147494	SG147494	SG147594
Sample Identification Number:	SGG1469JE	SGG1470JE	SGG1471JE	SGG1472JE	SGG1473JE	SGG1928JE	SGG1474JE	SGG1474JE*	SGG2032JE
Date Sampled:	10/28/94	10/28/94	10/28/94	10/26/94	10/26/94	10/26/94	10/17/94	10/17/94	2/17/95
Test Group:GC/MS Units: µg/L						DUP			EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethane	< .03	< .03	0.1	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethene	< .05	0.09	0.26	< .05	< .05	< .05	< .05	< .51	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.01	0.03	0.04	0.02	0.09	0.14	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	0.03	< .1	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
2-Butanone	0.15	< .04	0.16	< .04	< .04	0.1	0.1	< .4	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Acetone	< .03	< .03	< .03	< .03	0.6	0.39	0.92	< .3	< .03
Benzene	0.29	0.38	0.39	1.1	0.4	0.29	0.51	0.62	0.04
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Carbon Disulfide	< .04	< .04	0.05	0.08	< .04	< .04	0.05	< .4	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Ethylbenzene	0.04	0.01	0.07	< .01	< .01	0.05	0.08	0.16	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	0.16	< .03	< .3	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	0.02
Toluene	0.18	0.18	0.54	0.7	0.3	0.19	0.49	< 1.11	< .11
Total Xylenes	0.06	< .04	0.18	< .01	< .04	0.09	0.19	< .13	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	0.18	< .51	< .05
Vinyl Chloride	< .07	< .07	1.9	< .07	< .07	< .07	5.2 J	13	< .07
cis-1,2-dichloroethene	< .03	< .03	0.11	< .03	< .03	< .03	< .03	< .3	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
m & p-Xylenes	0.04	< .04	0.14	< .04	< .04	0.06	0.13	< .4	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
n-Propylbenzene	< .01	< .01	< .01	0.02	0.04	0.01	0.02	< .1	< .01
o-Xylene	0.02	< .01	0.04	0.01	< .01	0.03	0.06	0.13	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .51	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane	40		100	200	200	200			

TABLE E-1
Soil-Gas Summary of Results
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Sample Location: Sample Identification Number: Date Sampled:	SG147694 SGG2097JE*R 2/17/95	SG147694 SGG1476JE 10/17/94	SG147694 SGG1476JE**R 10/20/94	SG147694 SGG1921JE 10/20/94	SG147794 SGG1477JE 10/17/94	SG147794 SGG1477JE**R 10/20/94	SG147894 SGG1478JE 10/17/94	SG147894 SGG1478JE**R 10/20/94
Test Group:GC/MS Units: µg/L				EB				
1,1,1,2-Tetrachloroethane	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
1,1,1-Trichloroethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,1,2,2-Tetrachloroethane	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
1,1,2-Trichloroethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,1-Dichloroethane	< .3	0.21	< 3	< .03	0.1	< 3	< .03	< 3
1,1-Dichloroethene	1.1	1.5	< 5	< .05	< .05	< 5	< .05	< 5
1,1-dichloropropene	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,2,3-Trichlorobenzene	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,2,3-Trichloropropane	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
1,2,4-Trichlorobenzene	< .4	< .04	< 4	< .04	< .04	< 4	< .04	< 4
1,2,4-Trimethylbenzene	0.3	0.21	< 1	0.03	0.06	< 1	0.04	< 1
1,2-Dibromo-3-chloropropane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,2-Dibromoethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,2-Dichlorobenzene	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
1,2-Dichloroethane	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
1,2-Dichloropropane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,3,5-Trimethylbenzene	0.11	< .01	< 1	< .01	0.02	< 1	0.02	< 1
1,3-Dichlorobenzene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
1,3-Dichloropropane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
1,4-Dichlorobenzene	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
2,2-Dichloropropane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
2-Butanone	< .4	0.09	< 4	0.23	0.09	< 4	0.11	< 4
2-Chlorotoluene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
4-Chlorotoluene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
Acetone	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Benzene	1.4	0.38	< 3	< .03	0.7	< 3	0.82	< 3
Bromobenzene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
Bromochloromethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Bromodichloromethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Bromoform	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
Bromomethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Carbon Disulfide	< .4	< .04	< 4	< .04	< .04	< 4	0.24	< 4
Carbon Tetrachloride	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Chlorobenzene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
Chloroethane	< .81	< .08	< 8	< .08	< .08	< 8	< .08	< 8
Chloroform	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Chloromethane	0.9	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Dibromochloromethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Dibromromethane	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Dichlorodifluoromethane	< .4	< .04	< 4	< .04	< .04	< 4	< .04	< 4
Ethylbenzene	0.21	0.07	2.5	0.02	0.12	3	0.1	< 1
Hexachlorobutadiene	< .4	< .04	< 4	< .04	< .04	< 4	< .04	< 4
Isopropylbenzene	< .1	0.05	< 1	< .01	0.02	< 1	< .01	< 1
Methylene Chloride	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Naphthalene	< .3	< .03	13	0.08	0.03	< 3	< .03	7
Styrene	< .4	< .04	< 4	< .04	< .04	< 4	< .04	< 4
Tetrachloroethene	< .2	0.04	< 2	< .02	0.11	< 2	0.42	< 2
Toluene	1.1	0.77	< 11	< .11	1.5	< 11	0.59	< 11
Total Xylenes	< .4	0.31	< 5.6	0.1	0.17	8.4	0.3	< 4
Trichloroethene	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Trichlorofluoromethane	1.5	< .05	< 5	< .05	< .05	< 5	< .05	< 5
Vinyl Chloride	21	84 J	222 J	< .07	67 J	66	78 J	98
cis-1,2-dichloroethene	< .3	0.46	< 3	0.05	0.08	< 3	0.38	< 3
cis-1,3-Dichloropropene	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
m & p-Xylenes	< 2	0.21	5.6	0.08	0.13	7.3	0.24	< 4
n-Butylbenzene	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
n-Propylbenzene	< .1	< .01	< 1	< .01	0.02	< 1	0.01	< 1
o-Xylene	0.21	0.1	< 1	0.02	0.04	1.1	0.06	< 1
p-Isopropyltoluene	< .2	< .02	< 2	< .02	< .02	< 2	< .02	< 2
s-Butylbenzene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
t-Butylbenzene	< .1	< .01	< 1	< .01	< .01	< 1	< .01	< 1
trans-1,2-Dichloroethene	< .5	0.11	< 5	< .05	< .05	< 5	< .05	< 5
trans-1,3-dichloropropene	< .3	< .03	< 3	< .03	< .03	< 3	< .03	< 3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane			24500		60	1280	380	1210

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG147994	SG147994	SG148094	SG148094	SG148194	SG148194	SG148294	SG148294
Sample Identification Number:	SGG1479JE	SGG1479JE*	SGG1480JE	SGG1480JE*	SGG1481JE	SGG1481JE*	SGG1482JE	SGG1482JE*
Date Sampled:	10/17/94	10/17/94	10/14/94	10/14/94	10/14/94	10/14/94	10/14/94	10/14/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
1,1,1-Trichloroethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
1,1,2-Trichloroethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,1-Dichloroethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,1-Dichloroethene	< .05	< .51	< .05	< .51	< .05	< .51	0.09	< .51
1,1-dichloropropene	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,2,3-Trichloropropane	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .4	< .04	< .4	< .04	< .4
1,2,4-Trimethylbenzene	0.05	< .1	0.02	< .1	0.03	< .1	0.04	< .1
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,2-Dibromoethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,2-Dichlorobenzene	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
1,2-Dichloroethane	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
1,2-Dichloropropane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,3,5-Trimethylbenzene	0.02	< .1	< .01	< .1	< .01	< .1	0.01	< .1
1,3-Dichlorobenzene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
1,3-Dichloropropane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
1,4-Dichlorobenzene	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
2,2-Dichloropropane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
2-Butanone	< .04	< .4	0.15	< .4	0.22	< .4	0.14	< .4
2-Chlorotoluene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
4-Chlorotoluene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
Acetone	< .03	< .3	< .03	0.95	< .03	< .3	< .03	< .3
Benzene	1.4	1.1	0.72	1.4	0.62	1.1	0.77	0.49
Bromobenzene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
Bromochloromethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Bromodichloromethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Bromoform	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
Bromomethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Carbon Disulfide	0.07	< .4	< .04	< .4	< .04	< .4	< .04	< .4
Carbon Tetrachloride	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Chlorobenzene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
Chloroethane	< .08	< .81	< .08	< .81	< .08	< .81	< .08	< .81
Chloroform	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Chloromethane	< .03	< .3	0.05	0.36	0.04	< .3	0.04	< .3
Dibromochloromethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Dibromromethane	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Dichlorodifluoromethane	< .04	< .4	< .04	< .4	< .04	< .4	< .04	< .4
Ethylbenzene	0.17	0.21	0.06	0.19	0.12	0.2	0.09	< .1
Hexachlorobutadiene	< .04	< .4	< .04	< .4	< .04	< .4	< .04	< .4
Isopropylbenzene	0.01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
Methylene Chloride	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Naphthalene	< .03	< .3	< .03	< .3	< .03	< .3	0.16	< .3
Styrene	0.06	< .4	< .04	< .4	< .04	< .4	0.04	< .4
Tetrachloroethene	8.2 J	12	12 J	21	7.9 J	11	12 J	15
Toluene	1	< 1.1	0.44	< 1.1	0.47	< 1.1	0.46	< 1.1
Total Xylenes	0.34	< .21	0.16	< .4	0.27	< .13	0.15	< .4
Trichloroethene	1.7	2.3	0.06	< .3	< .03	< .3	6.1 J	6.1
Trichlorofluoromethane	< .05	< .51	0.28	< .51	< .05	< .51	< .05	< .51
Vinyl Chloride	< .07	< .71	< .07	< .71	< .07	< .71	6.4 J	5.2
cis-1,2-dichloroethene	1.1	1.3	< .03	< .3	< .03	< .3	2.4 J	2.2
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
m & p-Xylenes	0.2	< .4	0.12	< .4	0.18	< .4	0.1	< .4
n-Butylbenzene	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
n-Propylbenzene	0.03	< .1	< .01	< .1	0.01	< .1	0.02	< .1
o-Xylene	0.14	0.21	0.04	< .1	0.09	0.13	0.05	< .1
p-Isopropyltoluene	< .02	< .2	< .02	< .2	< .02	< .2	< .02	< .2
s-Butylbenzene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
t-Butylbenzene	< .01	< .1	< .01	< .1	< .01	< .1	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .51	< .05	< .51	< .05	< .51	0.39	< .51
trans-1,3-dichloropropene	< .03	< .3	< .03	< .3	< .03	< .3	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	210	210	100	100	120	120	380	380

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG148394 SGG1483JE 10/14/94	SG148394 SGG1483JE* 10/14/94	SG148394 SGG1915JE 10/14/94	SG210194 SGG2101JE* 3/3/95	SG210294 SGG2102JE* 3/3/95	SG210394 SGG2040JE 3/3/95	SG210394 SGG2103JE 3/3/95	SG210494 SGG2104JE*R 3/13/95
Test Group:GC/MS Units: µg/L			EB			EB		
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,1-Dichloroethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,1-Dichloroethene	< .05	< .51	< .05	< .5	< .5	< .05	< .05	< .5
1,1-dichloropropene	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .4	< .4	< .04	< .04	< .4
1,2,4-Trimethylbenzene	0.03	< .1	0.02	0.14	0.12	0.01	0.02	0.14
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
1,3-Dichlorobenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
2-Butanone	0.09	< .4	< .04	< .4	< .4	< .04	0.04	< .4
2-Chlorotoluene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
Acetone	< .03	< .3	0.03	< .3	< .3	< .03	< .03	< .3
Benzene	0.41	1.1	< .03	0.33	0.8	< .06	.37 B	< .3
Bromobenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
Bromochloromethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Bromodichloromethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Bromoform	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
Bromomethane	< .03	< .3	< .03	< .3	1.3	< .03	< .03	< .3
Carbon Disulfide	< .04	< .4	< .04	< .4	< .4	< .04	< .04	< .4
Carbon Tetrachloride	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Chlorobenzene	< .01	< .1	< .01	1.5	< .1	< .01	< .01	< .1
Chloroethane	< .08	< .81	< .08	< .81	< .81	< .08	< .08	< .81
Chloroform	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Chloromethane	< .03	< .3	< .03	0.44	< .3	< .08	< .08	< .3
Dibromochloromethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Dibromromethane	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< .4	< .04	< .4	< .4	< .04	< .04	< .4
Ethylbenzene	0.06	< .1	< .01	0.25	0.11	< .01	0.05	< .1
Hexachlorobutadiene	< .04	< .4	< .04	< .4	< .4	< .04	< .04	< .4
Isopropylbenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
Methylene Chloride	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Naphthalene	0.05	< .3	0.04	< .3	< .3	< .03	< .03	< .3
Styrene	< .04	< .4	< .04	< .4	< .4	< .04	< .04	< .4
Tetrachloroethene	0.18	< .2	< .02	11	< .2	< .02	0.14	< .2
Toluene	0.46	< 1.1	< .11	< 1.11	< 1.11	< .11	0.27	< 1.11
Total Xylenes	0.12	< .4	< .04	0.94	< .11	< .04	0.09	< .4
Trichloroethene	0.1	< .3	< .03	0.9	< .3	< .03	< .03	< .3
Trichlorofluoromethane	< .05	< .51	< .05	< .5	< .5	< .05	1.7	76 J
Vinyl Chloride	9.7 J	8.3	< .07	< .71	26	< .07	< .07	14
cis-1,2-dichloroethene	0.13	< .3	< .03	< .3	< .3	< .03	< .03	< .3
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
m & p-Xylenes	0.07	< .4	< .04	0.71	< .4	< .04	0.06	< .4
n-Butylbenzene	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
n-Propylbenzene	0.01	< .1	< .01	< .1	< .1	< .01	0.01	< .1
o-Xylene	0.05	< .1	< .01	0.23	0.11	< .01	0.03	< .1
p-Isopropyltoluene	< .02	< .2	< .02	< .2	< .2	< .02	< .02	< .2
s-Butylbenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
t-Butylbenzene	< .01	< .1	< .01	< .1	< .1	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .51	< .05	< .5	< .5	< .05	< .05	< .5
trans-1,3-dichloropropene	< .03	< .3	< .03	< .3	< .3	< .03	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	740	740						

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG210594	SG210594	SG210694	SG210794	SG210794	SG210894	SG210994	SG211094
Sample Identification Number:	SGG2039JE**	SGG2105JE**	SGG2106JE*	SGG2041JE	SGG2107JE	SGG2108JE	SGG2109JE	SGG2110JE
Date Sampled:	3/1/95	3/1/95	3/3/95	3/3/95	3/3/95	3/3/95	3/3/95	3/3/95
Test Group:GC/MS Units: µg/L	DUP			DUP				
1,1,1,2-Tetrachloroethane	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< 4.8	< 4.8	< .5	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< 3.8	< 3.8	< .4	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< 1	< 1	< .1	0.29	0.31	0.03	0.11	0.07
1,2-Dibromo-3-chloropropane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< 1	< 1	< .1	0.14	0.16	0.01	0.05	0.03
1,3-Dichlorobenzene	< 1	< 1	< .1	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
2-Butanone	< 3.8	< 3.8	< .4	0.1	< .04	< .04	< .04	0.1
2-Chlorotoluene	< 1	< 1	< .1	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< 1	< 1	< .1	< .01	< .01	< .01	< .01	< .01
Acetone	8.2	3.1	< .3	< .03	< .03	< .03	< .03	< .03
Benzene	< 5.7	< 5.7	< .3	0.46	.45 B	0.09	.31 B	.8 B
Bromobenzene	< 1	< 1	< .1	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Bromoform	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
Bromomethane	< 2.9	< 2.9	< .3	0.15	< .03	< .03	< .03	< .03
Carbon Disulfide	< 3.8	< 3.8	< .4	0.05	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< 1	< 1	< .1	1.6	< .01	< .01	< .01	< .01
Chloroethane	< 7.6	< 7.6	< .81	< .08	< .08	< .08	< .08	< .08
Chloroform	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Chloromethane	< 7.6	< 7.6	< .3	0.19	< .08	< .03	< .08	< .08
Dibromochloromethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	4	< 3.8	< .4	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< 1	< 1	< .1	0.17	0.19	0.02	0.08	0.12
Hexachlorobutadiene	< 3.8	< 3.8	< .4	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< 1	< 1	< .1	0.03	0.04	< .01	0.02	0.02
Methylene Chloride	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Naphthalene	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Styrene	< 3.8	< 3.8	< .4	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< 1.9	< 1.9	< .2	0.04	0.04	< .02	< .02	0.03
Toluene	< 10.5	< 10.5	< 1.11	3.8	3.1	0.11	0.33	0.72
Total Xylenes	< 3.8	< 3.8	< .4	0.73	0.77	< .02	0.27	0.25
Trichloroethene	< 2.9	< 2.9	3.9	1.9	1.5	< .03	< .03	0.09
Trichlorofluoromethane	2200 J	200	< .5	2.2	< .05	< .05	< .05	1.4
Vinyl Chloride	40	32	2.2	2.8	1.3	< .07	< .07	0.4
cis-1,2-dichloroethene	< 2.9	< 2.9	2.5	4	3	< .03	< .03	0.09
cis-1,3-Dichloropropene	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 3.8	< 3.8	< .4	0.54	0.56	< .04	0.18	0.16
n-Butylbenzene	< 1.9	< 1.9	< .2	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< 1	< 1	< .1	0.05	0.06	0.01	0.04	0.03
o-Xylene	< 1	< 1	< .1	0.19	0.21	0.02	0.09	0.09
p-Isopropyltoluene	< 1.9	< 1.9	< .2	0.04	0.04	< .02	< .02	< .02
s-Butylbenzene	< 1	< 1	< .1	0.04	< .01	< .01	< .01	< .01
t-Butylbenzene	< 1	< 1	< .1	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< 4.8	< 4.8	< .5	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< 2.9	< 2.9	< .3	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide						NA		
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG211194	SG211294	SG211394	SG211394	SG211494	SG211594	SG211594	SG211694	SG211694
Sample Identification Number:	SGG2111JE	SGG2112JE	SGG2042JE	SGG2113JE	SGG2114JE	SGG2043JE	SGG2115JE	SGG2038JE	SGG2116JE
Date Sampled:	3/6/95	3/6/95	3/6/95	3/6/95	3/6/95	3/6/95	3/6/95	3/1/95	3/1/[illegible]
Test Group:GC/MS Units: µg/L			EB			DUP		DUP	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .1	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.15	0.04	0.01	0.02	0.02	0.04	0.02	0.02	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.08	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.05	0.07	< .04	< .04	0.05	0.1	< .04	0.17	0.05
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.85	< .03
Benzene	.32 B	.53 B	0.05	.74 B	.63 B	0.43	.52 B	.33 B	.51 B
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	0.07	< .03	< .03	< .03	< .03	< .03	0.04	0.04
Carbon Disulfide	< .04	0.04	< .04	0.09	0.15	< .04	0.09	0.06	0.0[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .0[illegible]
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .1	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .08	< .08	< .03	< .08	< .08	0.03	.1 B	.09 B	< .08
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.04	0.04
Ethylbenzene	0.12	0.07	0.03	0.07	0.07	0.09	0.08	0.19	0.12
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.04	< .01	< .01	< .01	< .01	0.02	0.01	0.02	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	0.07	< .02	< .02	< .02	< .02	< .02
Toluene	0.56	0.5	0.23	1.1	0.43	0.34	0.36	1.5	1.3
Total Xylenes	0.47	0.13	0.09	0.15	0.13	0.17	0.11	0.59	0.5
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.26	0.28
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .1	13 J
Vinyl Chloride	0.17	2.9	< .07	< .07	< .07	2.7	1.7	< .1	< .07
cis-1,2-dichloroethene	< .03	0.08	< .03	< .03	< .03	0.12	0.08	0.19	0.2
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.32	0.09	0.07	0.11	0.09	0.11	0.07	0.31	0.36
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.06	0.01	< .01	< .01	0.01	< .01	< .01	< .01	< .01
o-Xylene	0.15	0.04	0.02	0.04	0.04	0.06	0.04	0.28	0.14
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .1	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG211994	SG211994	SG212094	SG212194	SG212294	SG212394	SG212494	SG212594	SG212794
ample Identification Number:	SGG2037JE	SGG2119JE	SGG2120JE	SGG2121JE	SGG2122JE	SGG2123JE	SGG2124JE	SGG2125JE	SGG2127JE
te Sampled:	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95
Test Group:GC/MS Units: µg/L	EB								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	< .01	0.03	< .01	0.01	0.04	0.03	0.02	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	0.01	< .01	< .01	0.01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	0.05	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	0.15	< .03	< .03
Benzene	< .03	< .03	0.32	0.1	0.22	0.28	0.11	< .03	0.41
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
omomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
rbon Disulfide	< .04	< .04	0.04	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.03	0.05	0.03	0.07	0.04	< .03	0.05	0.07
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	< .01	0.02	< .01	0.01	0.03	0.03	0.01	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	0.04	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	< .11	< .11	0.11	< .11	0.14	0.24	0.11	< .11	0.22
Total Xylenes	< .04	< .04	0.08	< .04	< .04	0.08	0.06	< .01	0.05
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	0.06	< .04	< .04	0.06	0.04	< .04	0.04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	0.02	< .01	< .01	0.02	0.02	0.01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
est Group:Gastech Units: ppm									
ydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location:	SG214194	SG214294	SG214394	SG214494	SG214594	SG214694	SG214794	SG214894
Sample Identification Number:	SGG2141JE	SGG2142JE	SGG2143JE	SGG2144JE	SGG2145JE*	SGG2146JE*	SGG2147JE**	SGG2048JE
Date Sampled:	3/9/95	3/9/95	3/9/95	3/9/95	3/8/95	3/9/95	3/9/95	3/16/95
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
1,1,1-Trichloroethane	0.4	< .03	< .03	0.06	4.6	0.76	< 2.9	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,1-Dichloroethane	0.23	< .03	< .03	< .03	2.2	1.8	< 2.9	< .03
1,1-Dichloroethene	3.6	0.24	0.22	0.1	32	11	53	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .4	< 3.8	< .04
1,2,4-Trimethylbenzene	0.04	0.03	0.06	0.06	< .1	< .1	< 1	0.08
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,3,5-Trimethylbenzene	0.01	0.01	0.02	0.02	< .1	< .1	< 1	0.03
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
2-Butanone	0.06	< .04	0.07	0.1	< .4	< .4	< 3.8	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
Acetone	< .03	< .03	< .03	< .03	< .3	0.72	4.3	0.05
Benzene	1	1	0.8	0.43	0.98	0.59	< 2.9	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Bromoform	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
Bromomethane	< .03	< .03	< .03	0.06	< .3	< .3	< 2.9	< .03
Carbon Disulfide	< .04	0.07	0.06	< .04	< .4	< .4	< 3.8	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .81	< .81	< 7.6	< .08
Chloroform	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Chloromethane	0.06	0.03	< .03	0.07	0.62	0.44	< 2.9	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	< .4	< 3.8	< .04
Ethylbenzene	0.04	0.03	0.1	0.06	< .1	< .1	< 1	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .4	< 3.8	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Naphthalene	< .03	< .03	< .03	0.03	< .3	< .3	< 2.9	< .03
Styrene	< .04	< .04	< .04	< .04	< .4	< .4	< 3.8	< .04
Tetrachloroethene	0.27	0.07	0.25	0.08	3.9	0.81	6.6	< .02
Toluene	0.42	1.1	2.2	2	3	1.5	< 10.5	< .11
Total Xylenes	0.12	0.11	0.27	0.22	< .4	< .4	< 3.8	0.07
Trichloroethene	0.51	0.11	0.1	0.07	13	3.3	5.9	< .03
Trichlorofluoromethane	0.08	< .05	< .05	< .05	< .5	< .5	< 4.8	< .05
Vinyl Chloride	0.09	< .07	< .07	< .07	< .71	< .71	< 6.7	< .07
cis-1,2-dichloroethene	0.05	< .03	< .03	< .03	1.1	1	< 2.9	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
m & p-Xylenes	0.09	0.08	0.2	0.16	< .4	< .4	< 3.8	0.05
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
n-Propylbenzene	0.01	< .01	0.02	0.02	< .1	< .1	< 1	0.01
o-Xylene	0.03	0.03	0.07	0.06	< .1	< .1	< 1	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .2	< .2	< 1.9	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .1	< 1	< .01
trans-1,2-Dichloroethene	0.14	< .05	< .05	< .05	1.4	< .5	< 4.8	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3	< 2.9	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG214894 SGG2148JE 3/16/95	SG214994 SGG2049JE* 3/16/95	SG214994 SGG2149JE* 3/16/95	SG215094 SGG2150JE* 3/16/95	SG215194 SGG2050JE 3/16/95	SG215194 SGG2151JE 3/16/95
Test Group:GC/MS Units: µg/L		DUP			DUP	
1,1,1,2-Tetrachloroethane	< .02	< .2	< .2	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	< .3	< .3	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .2	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .3	< .3	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .3	< .3	< .3	< .03	< .03
1,1-Dichloroethene	< .05	< .5	< .5	< .5	< .05	< .05
1,1-dichloropropene	< .03	< .3	< .3	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .3	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .2	< .2	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .4	< .4	< .04	< .04
1,2,4-Trimethylbenzene	0.07	< .1	0.14	0.14	0.02	0.03
1,2-Dibromo-3-chloropropane	< .03	< .3	< .3	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .3	< .3	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .2	< .2	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .2	< .2	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .3	< .3	< .3	< .03	< .03
1,3,5-Trimethylbenzene	0.03	< .1	0.14	0.17	< .01	0.01
1,3-Dichlorobenzene	< .01	< .1	< .1	0.1	< .01	< .01
1,3-Dichloropropane	< .03	< .3	< .3	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .2	< .2	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .3	< .3	< .3	< .03	< .03
2-Butanone	0.16	< .4	0.42	< .4	0.08	0.19
2-Chlorotoluene	< .01	< .1	0.1	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .1	< .1	< .1	< .01	< .01
Acetone	< .03	3.3	2.7	2.4	< .03	< .03
Benzene	0.76	0.81	0.92	1.4	0.74	1.4
Bromobenzene	< .01	< .1	< .1	< .1	< .01	< .01
Bromochloromethane	< .03	< .3	< .3	< .3	< .03	< .03
Bromodichloromethane	< .03	< .3	< .3	< .3	< .03	< .03
Bromoform	< .02	< .2	< .2	< .2	< .02	< .02
Bromomethane	< .03	< .3	< .3	< .3	< .03	< .03
Carbon Disulfide	< .04	< .4	< .4	< .4	0.12	0.14
Carbon Tetrachloride	< .03	< .3	< .3	< .3	< .03	< .03
Chlorobenzene	< .01	< .1	< .1	0.18	< .01	< .01
Chloroethane	< .08	< .81	< .81	< .81	< .08	< .08
Chloroform	< .03	< .3	< .3	< .3	< .03	< .03
Chloromethane	< .03	< .3	< .3	< .3	0.03	0.04
Dibromochloromethane	< .03	< .3	< .3	< .3	< .03	< .03
Dibromromethane	< .03	< .3	< .3	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .4	< .4	< .4	< .04	< .04
Ethylbenzene	0.06	0.21	0.2	0.41	0.08	0.1
Hexachlorobutadiene	< .04	< .4	< .4	< .4	< .04	< .04
Isopropylbenzene	< .01	< .1	0.1	0.1	< .01	< .01
Methylene Chloride	< .03	< .3	< .3	< .3	< .03	< .03
Naphthalene	< .03	< .3	< .3	< .3	< .03	< .03
Styrene	0.04	< .4	< .4	< .4	< .04	< .04
Tetrachloroethene	0.03	< .2	< .2	< .2	< .02	< .02
Toluene	1.3	8.4	8.4	17	2.2	2.9
Total Xylenes	0.18	0.94	0.94	1.45	0.16	0.24
Trichloroethene	< .03	< .3	< .3	< .3	< .03	< .03
Trichlorofluoromethane	< .05	< .5	< .5	< .5	< .05	< .05
Vinyl Chloride	< .07	17	15	< .71	< .07	< .07
cis-1,2-dichloroethene	< .03	< .3	0.32	< .3	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .3	< .3	< .3	< .03	< .03
m & p-Xylenes	0.13	0.67	0.68	1.1	0.12	0.18
n-Butylbenzene	< .02	< .2	< .2	< .2	< .02	< .02
n-Propylbenzene	0.01	< .1	0.15	0.17	< .01	0.01
o-Xylene	0.05	0.27	0.26	0.35	0.04	0.06
p-Isopropyltoluene	< .02	< .2	< .2	< .2	< .02	< .02
s-Butylbenzene	0.01	< .1	< .1	< .1	< .01	< .01
t-Butylbenzene	< .01	< .1	< .1	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .5	< .5	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .3	< .3	< .3	< .03	< .03
Test Group:Gastech Units: ppm						
Hydrogen Sulfide		NA				
Methane						

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG148494	SG148494	SG148494	SG148594	SG148694	SG148794	SG148794	SG148894	SG148994
Sample Identification Number:	SGG1484JE	SGG1936JE	SGG1936JE*	SGG1485JE	SGG1486JE	SGG1487JE	SGG2035JE	SGG1488JE	SGG1489JE
Date Sampled:	11/2/94	11/2/94	11/2/94	11/2/94	11/2/94	2/22/95	2/22/95	1/25/95	1/25/95
Test Group:GC/MS Units: µg/L		DUP	DUP				DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	0.15	0.23	< .3	0.42	0.31	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	0.58	0.8	0.73	0.2	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	3.2	5.2 J	4.8	3.1	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.07	0.1	0.62	0.03	0.01	< .02	< .02	0.02	0.03
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.03	0.04	0.2	0.01	< .01	< .02	< .02	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.07	< .04	< .4	< .04	< .04	< .04	0.08	0.09	< .04
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .3	0.21	0.13	< .03	< .03	< .03	< .03
Benzene	0.31	0.24	0.59	0.07	0.05	0.49	0.23	0.61	0.04
Bromobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< .03	< .03	0.13	0.05	< .03	< .03
Carbon Disulfide	0.07	0.06	< .4	< .04	< .04	0.06	0.05	0.09	< .04
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .8	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .3	< .03	0.05	0.06	0.04	0.34	0.04
Dibromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	< .04	0.06	0.07	< .04	< .04
Ethylbenzene	0.11	0.09	0.4	0.08	0.01	0.03	0.05	0.06	0.01
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.02	0.02	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	0.07
Styrene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.9	1.04	1.1	1.5	0.11	0.02	0.02	< .02	0.08
Toluene	0.45	0.4	1.8	0.96	< .11	0.32	0.19	0.44	< .11
Total Xylenes	0.32	0.31	1.72	0.34	< .01	< .04	.04 B	0.16	< .04
Trichloroethene	0.94	1.1	1.1	0.22	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	1.4	9.6	0.23	0.33	< .05	< .05	< .05	3
Vinyl Chloride	2	2.6	1.5	4	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.25	0.33	0.3	0.06	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.2	0.19	1.2	0.26	< .04	< 2	< 2	0.12	< 2
n-Butylbenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.03	0.04	0.15	< .01	< .01	< .02	< .02	< .01	< .01
o-Xylene	0.12	0.12	0.52	0.08	0.01	< .02	.02 B	0.04	0.01
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .02	< .02	< .01	< .01
trans-1,2-Dichloroethene	0.13	0.18	< .5	0.1	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG149094	SG149194	SG149294	SG149394	SG149494	SG149594	SG149594	SG149694	SG149794
Sample Identification Number:	SGG1490JE	SGG1491JE	SGG1492JE	SGG1493JE	SGG1494JE	SGG1495JE	SGG2002JE	SGG1496JE	SGG1[illegible]
Date Sampled:	1/25/95	1/25/95	1/23/95	1/24/95	1/25/95	1/25/95	1/25/95	2/22/95	2/20[illegible]
Test Group:GC/MS Units: µg/L							DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.03	0.02	< .01	< .01	< .01	< .01	< .01	< .02	0.05
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .02	0.01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.04	0.1
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	0.39	0.21	0.12	0.46	0.24	0.25	0.14	0.23	0.42
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Carbon Disulfide	0.06	0.13	0.04	< .04	< .04	< .04	< .04	< .04	0.0[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.11	< .03	0.03	0.04	0.04	< .03	0.08	0.11
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.06	< .04
Ethylbenzene	0.06	0.03	< .01	0.05	0.02	0.03	0.02	0.03	0.05
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	0.03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.14	0.04	< .02	< .02	< .02	< .02	< .02	0.02	< .02
Toluene	0.25	0.24	< .11	0.3	< .11	0.19	< .11	0.11	0.23
Total Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.11
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	3.6	< .05	< .05	3.4	0.44	< .05	4
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0.08
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .02	0.01
o-Xylene	0.03	0.02	< .01	0.02	0.02	0.01	0.01	< .02	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .02	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG149894	SG149994	SG150094	SG150094	SG150194	SG150194	SG150294	SG150394
Sample Identification Number:	SGG1498JE	SGG1499JE	SGG1500JE*	SGG1935JE	SGG1501JE	SGG1934JE	SGG1502JE	SGG1503JE**
Date Sampled:	11/2/94	11/2/94	11/2/94	11/2/94	11/2/94	11/2/94	2/20/95	2/20/95
Test Group:GC/MS Units: µg/L				EB		DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
1,1,1-Trichloroethane	0.66	< .03	< .3	< .03	0.03	< .03	0.09	< 2.9
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,1-Dichloroethane	< .03	< .03	1.8	< .03	< .03	< .03	< .03	< 2.9
1,1-Dichloroethene	0.69	< .05	1	< .05	< .05	< .05	0.07	< 4.8
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< 3.8
1,2,4-Trimethylbenzene	0.02	0.03	< .1	< .01	0.01	0.02	0.01	< 1.9
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1.9
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1,
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
2-Butanone	0.09	0.13	< .4	< .04	< .04	0.06	< .04	< 3.8
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
Acetone	< .03	< .03	< .3	0.06	< .03	< .03	< .03	5.9
Benzene	0.76	0.6	0.84	< .03	0.08	0.27	0.61	< 2.9
Bromobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
Bromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Bromodichloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Bromoform	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
Bromomethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Carbon Disulfide	0.1	< .04	< .4	< .04	< .04	< .04	0.07	< 3.8
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Chlorobenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
Chloroethane	< .08	< .08	< .8	< .08	< .08	< .08	< .08	< 7.6
Chloroform	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Chloromethane	0.44	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Dibromochloromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Dibromromethane	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< 3.8
Ethylbenzene	0.07	0.08	< .1	< .01	0.03	0.05	0.02	< 1
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< 3.8
Isopropylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
Methylene Chloride	< .03	< .03	< .3	< .03	< .03	< .03	0.12	< 2.9
Naphthalene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Styrene	< .04	< .04	< .4	< .04	< .04	< .04	< .04	< 3.8
Tetrachloroethene	0.69	< .02	< .2	< .02	0.02	0.04	0.03	< 1.9
Toluene	0.47	0.47	< 1.1	< .11	< .11	0.2	0.3	140
Total Xylenes	0.16	0.17	< .4	< .04	0.06	0.11	< .04	< 3.8
Trichloroethene	0.04	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Trichlorofluoromethane	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< 4.8
Vinyl Chloride	< .07	< .07	14	< .07	< .07	< .07	< .07	< 6.7
cis-1,2-dichloroethene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
m & p-Xylenes	0.09	0.12	< .4	< .04	0.04	0.09	< 2	< 2
n-Butylbenzene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
n-Propylbenzene	0.02	0.01	< .1	< .01	< .01	< .01	< .01	< 1.9
o-Xylene	0.07	0.05	< .1	< .01	0.02	0.02	0.01	< 1.9
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .02	< .02	< .02	< 1.9
s-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1
t-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .01	< .01	< 1.9
trans-1,2-Dichloroethene	< .05	< .05	< .5	< .05	< .05	< .05	< .05	< 4.8
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .03	< .03	< 2.9
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location: Sample Identification Number: Date Sampled:	SG150494 SGG1504JE 1/25/95	SG150494 SGG2003JE 1/25/95	SG150594 SGG1505JE 1/23/95	SG150694 SGG1506JE 1/25/95	SG150794 SGG1507JE* 2/20/95	SG150894 SGG1508JER 3/15/95	SG150994 SGG1509JER 3/15/95	SG151094 SGG1510JE 3/15/95
Test Group:GC/MS Units: µg/L		EB						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.1	0.1	0.02	0.01	< .1	0.04	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.03	0.04	< .01	< .01	< .1	0.02	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	0.05	< .4	0.04	0.09	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .3	0.19	< .03	< .03
Benzene	0.31	< .03	0.32	0.61	0.53	0.14	0.53	0.76
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
Bromomethane	0.09	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	0.04	0.05	< .4	< .04	0.08	0.09
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .81	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Chloromethane	0.09	< .03	< .03	0.05	< .3	0.04	0.06	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Ethylbenzene	0.02	0.03	0.03	0.02	< .1	0.05	0.04	0.07
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .1	0.01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .3	0.39	0.09	0.06
Styrene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	0.34	0.04	< .02	0.03
Toluene	0.16	< .11	0.21	0.18	< 1.11	0.13	0.26	0.41
Total Xylenes	< .04	0.16	< .04	< .04	< .4	0.1	< .01	0.06
Trichloroethene	< .03	< .03	< .03	< .03	15	2.9	< .03	< .03
Trichlorofluoromethane	< .05	0.79	< .05	< .05	< .5	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .71	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
m & p-Xylenes	< 2	0.1	< 2	< 2	< 2	0.06	< .04	0.04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
n-Propylbenzene	0.02	0.03	< .01	< .01	< .1	< .01	< .01	< .01
o-Xylene	0.02	0.06	0.02	0.02	< .1	0.04	0.01	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG151294	SG151394	SG151494	SG151594	SG151594	SG151694	SG151694	SG151694
Sample Identification Number:	SGG1512JE*	SGG1513JE**	SGG1514JE	SGG1515JE	SGG1515JE**	SGG1516JE	SGG1516JE**	SGG1933JE
Date Sampled:	2/20/95	3/28/95	11/2/94	11/1/94	11/1/94	11/1/94	11/1/94	11/1/94
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
1,1,1-Trichloroethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,1,2,2-Tetrachloroethane	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
1,1,2-Trichloroethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,1-Dichloroethane	0.72	< 2.86	< .03	0.29	< 2.86	0.14	< 3	< .03
1,1-Dichloroethene	< .5	< 4.76	< .05	< .05	< 4.76	0.13	< 5	< .05
1,1-dichloropropene	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,2,3-Trichlorobenzene	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,2,3-Trichloropropane	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
1,2,4-Trichlorobenzene	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 4	< .04
1,2,4-Trimethylbenzene	< .1	< .95	0.02	0.05	< .95	0.02	< 1	0.01
1,2-Dibromo-3-chloropropane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,2-Dibromoethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,2-Dichlorobenzene	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
1,2-Dichloroethane	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
1,2-Dichloropropane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,3,5-Trimethylbenzene	< .1	< .95	< .01	0.01	< .95	< .01	< 1	< .01
1,3-Dichlorobenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
1,3-Dichloropropane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
1,4-Dichlorobenzene	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
2,2-Dichloropropane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
2-Butanone	< .4	< 3.81	< .04	0.12	< 3.81	0.08	< 4	< .04
2-Chlorotoluene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
4-Chlorotoluene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
Acetone	1.6	< 2.86	< .03	< .03	< 2.86	< .03	< 3	0.04
Benzene	0.46	< 2.86	0.05	0.27	< 2.86	0.34	< 3	< .03
Bromobenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
Bromochloromethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Bromodichloromethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Bromoform	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
Bromomethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Carbon Disulfide	< .4	< 3.81	< .04	< .04	< 3.81	0.07	< 4	< .04
Carbon Tetrachloride	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Chlorobenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
Chloroethane	< .81	< 7.62	< .08	0.35	< 7.62	< .08	< 8	< .08
Chloroform	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Chloromethane	< .3	< 2.86	< .03	< .03	< 2.86	0.06	< 3	0.25
Dibromochloromethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Dibromromethane	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Dichlorodifluoromethane	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 4	< .04
Ethylbenzene	< .1	< .95	0.02	0.05	< .95	0.04	< 1	< .01
Hexachlorobutadiene	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 4	< .04
Isopropylbenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
Methylene Chloride	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Naphthalene	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Styrene	< .4	< 3.81	< .04	< .04	< 3.81	< .04	< 4	< .04
Tetrachloroethene	0.27	< 1.9	0.02	< .02	< 1.9	0.44	< 2	< .02
Toluene	< 1.11	< 10.48	< .11	2	< 10.48	0.39	< 11	< .11
Total Xylenes	< .4	< 3.81	< .01	0.12	< 3.81	0.09	< 4	< .04
Trichloroethene	0.32	< 2.86	< .03	< .03	< 2.86	0.97	< 3	< .03
Trichlorofluoromethane	< .5	130	< .05	< .05	< 4.76	< .05	< 5	< .05
Vinyl Chloride	13	92	< .07	62 J	160	59 J	126	< .07
cis-1,2-dichloroethene	0.38	< 2.86	< .03	0.15	< 2.86	17 J	32	< .03
cis-1,3-Dichloropropene	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
m & p-Xylenes	< 2	< 3.81	< .04	0.09	< 3.81	0.06	< 4	< .04
n-Butylbenzene	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
n-Propylbenzene	< .1	< .95	< .01	0.01	< .95	< .01	< 1	< .01
o-Xylene	< .1	< .95	0.01	0.03	< .95	0.03	< 1	< .01
p-Isopropyltoluene	< .2	< 1.9	< .02	< .02	< 1.9	< .02	< 2	< .02
s-Butylbenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
t-Butylbenzene	< .1	< .95	< .01	< .01	< .95	< .01	< 1	< .01
trans-1,2-Dichloroethene	< .5	< 4.76	< .05	0.1	< 4.76	0.25	< 5	< .05
trans-1,3-dichloropropene	< .3	< 2.86	< .03	< .03	< 2.86	< .03	< 3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG151794	SG151794	SG151894	SG151894	SG151994	SG152194	SG152294	SG152394
Sample Identification Number:	SGG1517JE*	SGG2033JE	SGG1518JER	SGG2034JER	SGG1519JE	SGG1521JE	SGG1522JE	SGG1523JE
Date Sampled:	2/20/95	2/20/95	3/15/95	3/15/95	2/20/95	2/20/95	2/22/95	1/24/95
Test Group:GC/MS Units: µg/L		EB		DUP				
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	4.5	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	0.48	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	17	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	0.02	0.05	0.03	0.06	0.05	< .02	0.02
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	0.01	0.01	0.02	0.01	< .02	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .4	0.08	< .04	< .04	0.08	< .04	0.05	< .04
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.61	0.23	0.11	0.06	< .03	0.14	0.11	< .03
Benzene	0.37	< .03	0.08	0.04	0.32	< .03	< .03	0.37
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .4	< .04	< .04	< .04	0.04	< .04	< .04	< .04
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .3	< .03	0.06	0.07	0.04	< .03	< .03	< .03
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .1	0.01	0.04	0.03	0.05	0.02	< .01	0.02
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .3	< .03	0.03	< .03	< .03	< .03	< .03	0.17
Styrene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	2.7	0.03	0.02	0.02	0.38	0.03	< .02	< .02
Toluene	< 1.11	0.11	0.35	0.11	0.26	< .11	< .11	0.18
Total Xylenes	< .4	< .04	0.15	0.1	0.16	< .04	< .04	< .04
Trichloroethene	0.39	< .03	< .03	< .03	0.04	0.33	< .03	< .03
Trichlorofluoromethane	< .5	< .05	< .05	< .05	< .05	< .05	< .05	0.29
Vinyl Chloride	< .71	< .07	< .07	< .07	< .07	0.12	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	0.04	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	0.11	0.07	0.12	< 2	< 2	< 2
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	0.01	< .01	0.01	< .01	< .02	< .01
o-Xylene	< .1	0.01	0.04	0.03	0.04	0.02	< .02	< .01
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .02	< .01
trans-1,2-Dichloroethene	0.59	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG152394	SG152494	SG152494	SG152494	SG152494	SG152594	SG152594	SG152694
Sample Identification Number:	SGG2000JE	SGG1524JE	SGG1524JE*	SGG1932JE	SGG1932JE*	SGG1525JE	SGG1525JE*	SGG1526JE
Date Sampled:	1/24/95	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	10/31/94	11/1/94
Test Group:GC/MS Units: µg/L	EB			DUP	DUP			
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	14 J	22	16 J	18	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,1-Dichloroethane	< .03	0.44	0.42	0.35	0.33	< .03	< .3	< .03
1,1-Dichloroethene	< .05	0.37	0.52	0.27	< .51	0.17	< .51	< .05
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .4	< .04	< .4	< .04
1,2,4-Trimethylbenzene	0.02	0.02	0.13	0.03	0.14	0.03	< .1	0.05
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	0.01	< .1	0.01	< .1	0.02
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
2-Butanone	< .04	< .04	< .4	0.05	< .4	< .04	< .4	0.08
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
Acetone	0.05	< .03	0.87	0.57	0.75	< .03	< .3	< .03
Benzene	< .03	0.3	< .3	0.18	< .3	0.19	0.43	0.19
Bromobenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Bromoform	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .3	0.04	< .3	< .03	< .3	< .03
Carbon Disulfide	< .04	0.04	< .4	< .04	< .4	< .04	< .4	< .04
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Chlorobenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
Chloroethane	< .08	0.15	< .81	0.13	< .81	0.11	< .81	< .08
Chloroform	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Chloromethane	< .03	0.03	< .3	< .03	< .3	< .03	< .3	0.24
Dibromochloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	< .4	< .04	< .4	< .04
Ethylbenzene	< .01	0.04	0.29	0.13	0.26	0.03	< .1	0.05
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .4	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
Methylene Chloride	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Naphthalene	0.13	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Styrene	< .04	< .04	< .4	< .04	< .4	< .04	< .4	< .04
Tetrachloroethene	< .02	0.44	0.64	0.56	0.59	< .02	< .2	< .02
Toluene	< .11	0.22	< 1.11	0.29	< 1.11	0.14	< 1.11	0.93
Total Xylenes	< .04	0.16	1.32	0.49	1.25	0.11	< .4	0.22
Trichloroethene	< .03	0.1	< .3	0.09	< .3	< .03	< .3	< .03
Trichlorofluoromethane	0.07	< .05	6.2	1.3	< .51	0.6	< .51	< .05
Vinyl Chloride	< .07	4.8 J	3	3.7	2.7	32 J	35	< .07
cis-1,2-dichloroethene	< .03	0.42	0.37	0.33	< .3	0.16	< .3	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
m & p-Xylenes	< 2	0.13	1	0.4	0.93	0.09	< .4	0.14
n-Butylbenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
n-Propylbenzene	< .01	< .01	< .1	0.01	< .1	< .01	< .1	0.01
o-Xylene	< .01	0.03	0.32	0.09	0.32	0.02	< .1	0.08
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .2	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .51	< .05	< .51	0.06	< .51	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG152794	SG152894	SG152994	SG153094	SG153194	SG153294	SG153394	SG153794	SG153894
Sample Identification Number:	SGG1527JE	SGG1528JE	SGG1529JE	SGG1530JE	SGG1531JE	SGG1532JE	SGG1533JE	SGG1537JE	SGG1[illegible]
Date Sampled:	10/31/94	11/1/94	11/1/94	2/22/95	2/22/95	1/25/95	2/22/95	10/31/94	11/2[illegible]
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	0.04	0.09	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	0.34	3.6	0.06	< .03	< .03	< .03	< .03	0.05	0.11
1,1-Dichloroethene	0.39	0.31	< .05	< .05	< .05	< .05	< .05	< .05	0.07
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.06	0.03	0.05	< .02	< .02	< .01	< .02	0.03	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< .01	0.02	< .02	< .02	< .01	< .02	0.01	0.01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.09	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.06
2-Chlorotoluene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	0.23	< .03	< .03
Benzene	0.38	0.58	0.04	0.29	0.33	0.18	0.09	0.69	0.38
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	0.09	< .03	< .03	< .03	< .03	< .03	< .03	< .0[illegible]
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
Chloroethane	1.7	1.4	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	0.38	< .03	0.05	< .03	< .03	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.05	0.06	0.02	< .02	< .02	0.03	< .02	0.1	0.07
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .12	< .12	< .03	< .12	< .03	0.04
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	0.04	0.09	< .02	< .02	0.1	< .02	< .02
Toluene	0.49	0.59	< .11	0.18	0.18	0.12	< .11	1	0.49
Total Xylenes	0.15	0.12	0.07	< .04	< .04	< .04	< .04	0.16	0.1
Trichloroethene	< .03	< .03	< .03	0.22	0.03	< .03	0.07	< .03	< .03
Trichlorofluoromethane	0.29	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.1	< .03	< .03	0.03	< .03	< .03	< .03	0.04	0.04
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.1	0.08	0.04	< .04	< .04	< 2	< .04	0.12	0.07
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	< .01	0.01	< .02	< .02	< .01	< .02	< .01	0.09
o-Xylene	0.05	0.04	0.03	< .02	< .02	0.01	< .02	0.04	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .02	< .02	< .01	< .02	< .01	< .01
trans-1,2-Dichloroethene	0.06	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .0[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG153894	SG153994	SG154094	SG154194	SG154294	SG154394	SG154494	SG154594	SG154594
Sample Identification Number:	SGG1937JE	SGG1539JE	SGG1540JE	SGG1541JE	SGG1542JER	SGG1543JE	SGG1544JE	SGG1545JE	SGG1931JE
Date Sampled:	11/2/94	2/22/95	1/25/95	1/23/95	2/22/95	11/2/94	10/31/94	10/31/94	10/31/94
Test Group:GC/MS Units: µg/L	EB								EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	0.04	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	< .02	< .01	< .01	< .02	0.9	0.08	0.02	0.03
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .02	< .01	< .01	< .02	0.62	0.03	< .01	0.01
1,3-Dichlorobenzene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	0.06	< .04	< .04	< .04	0.17	0.1	< .04
2-Chlorotoluene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
Acetone	0.05	0.04	< .03	< .03	< .03	< .03	< .03	< .03	0.12
Benzene	< .03	< .03	0.33	0.56	0.05	0.18	0.68	0.66	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	0.13	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.03	< .03	0.05	< .03	< .03	< .03	0.04	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	< .02	0.01	0.02	< .02	0.06	0.12	0.09	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	0.03	< .01	0.01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .12	< .03	0.12	< .12	< .03	< .03	0.04	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.06	< .04
Tetrachloroethene	< .02	< .02	< .02	0.04	< .02	< .02	< .02	< .02	< .02
Toluene	< .11	< .11	0.16	0.43	< .11	0.16	0.6	0.42	< .11
Total Xylenes	< .04	< .04	< .04	< .04	< .04	0.28	0.23	0.12	0.07
Trichloroethene	< .03	0.04	< .03	< .03	0.04	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	1.3	< .05	< .05	< .05	0.36	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	0.08	0.04	0.05	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	< 2	< 2	< .04	0.18	0.17	0.08	0.05
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .02	< .01	< .01	< .02	0.09	0.02	0.02	< .01
o-Xylene	< .01	< .02	0.01	< .01	< .02	0.1	0.06	0.04	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	0.07	< .02	< .02	< .02
s-Butylbenzene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .02	< .01	< .01	< .02	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG154694	SG154794	SG155094	SG155394	SG155394	SG155494	SG155494	SG155594
Sample Identification Number:	SGG1546JE	SGG1547JE	SGG1550JE	SGG1553JE	SGG1553JE*	SGG1554JE	SGG1554JE*	SGG1555JE*R
Date Sampled:	11/2/94	11/2/94	1/23/95	10/31/94	10/31/94	10/31/94	10/31/94	3/28/95
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	0.51	< .2	< .02	< .2	< .2
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,1-Dichloroethane	< .03	< .03	< .03	0.07	< .3	0.04	< .3	< .3
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .51	< .05	< .51	< .5
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .04	< .4	< .4
1,2,4-Trimethylbenzene	0.02	0.03	0.03	2.6	5.7	0.18	0.12	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,3,5-Trimethylbenzene	< .01	< .01	< .01	1.5	2.8	0.06	< .1	< .1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
2-Butanone	0.08	< .04	0.06	0.47	0.56	0.11	< .4	< .4
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
Acetone	< .03	0.14	< .03	< .03	2	< .03	< .3	1.3
Benzene	0.28	< .03	0.65	1.8	1.8	0.7	0.41	0.49
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Bromoform	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
Bromomethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Carbon Disulfide	0.14	< .04	< .04	0.11	< .4	0.08	< .4	< .4
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
Chloroethane	< .08	< .08	< .08	0.14	< .81	< .08	< .81	< .81
Chloroform	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Chloromethane	< .03	< .03	0.1	0.05	< .3	< .03	< .3	< .3
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	< .04	< .4	< .4
Ethylbenzene	0.05	< .01	0.08	3.2	5.6	0.1	< .1	< .1
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .04	< .4	< .4
Isopropylbenzene	< .01	< .01	0.01	0.84	0.97	0.02	< .1	< .1
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Naphthalene	< .03	0.03	< .03	0.09	< .3	0.08	< .3	< .3
Styrene	< .04	< .04	< .04	0.12	< .4	0.05	< .4	< .4
Tetrachloroethene	< .02	0.16	0.11	0.27	0.23	< .02	< .2	< .2
Toluene	0.18	< .11	0.37	8.2 J	12	0.55	< 1.11	< 1.11
Total Xylenes	0.08	< .04	< .04	10.2	21.2	0.24	< .4	< .4
Trichloroethene	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Trichlorofluoromethane	< .05	< .05	0.46	< .05	< .51	< .05	< .51	30
Vinyl Chloride	< .07	< .07	< .07	18 J	18	5.3 J	4.7	< .71
cis-1,2-dichloroethene	< .03	< .03	< .03	0.59	0.57	0.18	< .3	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
m & p-Xylenes	0.05	< .04	< 2	6.8	15	0.16	< .4	< .4
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .2	< .2
n-Propylbenzene	0.01	< .01	0.02	0.88	1.4	0.04	< .1	< .1
o-Xylene	0.03	< .01	0.04	3.4	6.2	0.08	< .1	< .1
p-Isopropyltoluene	< .02	< .02	< .02	0.25	0.45	< .02	< .2	< .2
s-Butylbenzene	< .01	< .01	< .01	0.33	< .1	0.02	< .1	< .1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .1	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .51	< .05	< .51	< .5
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .3	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG155694	SG155694	SG155794	SG155794	SG155894	SG156194	SG156294	SG156294
Sample Identification Number:	SGG1556JE	SGG1556JE**	SGG1557JE	SGG1557JE**	SGG1558JE	SGG1561JE	SGG1562JE	SGG1999JE
Date Sampled:	10/24/94	10/24/94	10/24/94	10/24/94	10/24/94	1/23/95	1/23/95	1/23/95
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< 3	< .03	< 3	0.11	< .03	< .03	< .03
1,1-Dichloroethane	0.06	< 3	0.06	< 3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< 5	< .05	< 5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< 4	< .04	< 4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.05	< 1	0.06	1.5	0.05	0.07	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< 1	0.03	< 1	0.02	0.2	< .01	0.02
1,3-Dichlorobenzene	< .01	< 1	< .01	< 1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
2-Butanone	0.12	< 4	0.15	< 4	0.16	0.1	< .04	< .04
2-Chlorotoluene	< .01	< 1	< .01	< 1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< 1	< .01	< 1	< .01	< .01	< .01	< .01
Acetone	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Benzene	0.95	340	0.41	< 3	0.61	0.7	0.07	< .03
Bromobenzene	< .01	< 1	< .01	< 1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Bromoform	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< 4	0.05	< 4	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	17	< .01	< 1	< .01	< .01	< .01	< .01
Chloroethane	< .08	< 8	< .08	< 8	< .08	< .08	< .08	< .08
Chloroform	< .03	< 3	< .03	< 3	0.06	< .03	< .03	< .03
Chloromethane	0.03	< 3	< .03	< 3	< .03	0.05	< .03	< .03
Dibromochloromethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< 4	< .04	< 4	< .04	< .04	< .04	< .04
Ethylbenzene	0.2	< 1	0.09	1.7	0.15	0.69	0.06	< .01
Hexachlorobutadiene	< .04	< 4	< .04	< 4	< .04	< .04	< .04	< .04
Isopropylbenzene	0.02	< 1	0.02	< 1	0.02	0.23	< .01	< .01
Methylene Chloride	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< 3	< .03	< 3	< .03	< .03	0.05	0.07
Styrene	< .04	< 4	< .04	< 4	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< 2	< .02	< 2	0.51	< .02	< .02	< .02
Toluene	1	< 11	0.65	< 11	0.54	0.44	0.22	< .11
Total Xylenes	0.4	< 4	0.23	7.1	0.52	1.19	0.24	< .04
Trichloroethene	< .03	< 3	< .03	< 3	0.03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< 5	< .05	< 5	< .05	< .05	< .05	< .05
Vinyl Chloride	30 J	30	53 J	31	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.44	< 3	0.46	< 3	< .03	0.04	< .03	< .03
cis-1,3-Dichloropropene	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
m & p-Xylenes	0.28	< 4	0.15	5.4	0.35	1.1	0.18	< 2
n-Butylbenzene	< .02	< 2	< .02	< 2	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	< 1	0.02	< 1	0.02	0.22	< .01	0.01
o-Xylene	0.12	< 1	0.08	1.7	0.17	0.09	0.06	< .01
p-Isopropyltoluene	< .02	< 2	< .02	< 2	< .02	0.02	< .02	< .02
s-Butylbenzene	< .01	< 1	< .01	< 1	< .01	0.06	< .01	< .01
t-Butylbenzene	< .01	< 1	< .01	< 1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< 5	0.05	< 5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< 3	< .03	< 3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	1980	1980	1900		50			

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location:	SG156494	SG156494	SG156594	SG156594	SG156694	SG156694	SG215294	SG215394
Sample Identification Number:	SGG1564JE	SGG1564JE*	SGG1565JE	SGG1565JE**	SGG1566JE	SGG1566JE**	SGG2152JE*	SGG2153JE
Date Sampled:	10/24/94	10/24/94	10/24/94	10/24/94	10/31/94	10/31/94	3/16/95	3/16/95
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
1,1,1-Trichloroethane	< .03	< .3	< .03	< 3	< .03	< 3	15	4.9
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
1,1,2-Trichloroethane	< .03	< .3	0.06	< 3	< .03	< 3	< .3	< 2.86
1,1-Dichloroethane	0.05	< .3	< .03	< 3	0.04	< 3	1.5	4
1,1-Dichloroethene	< .05	< .5	< .05	< 5	1.8	< 5	25	37
1,1-dichloropropene	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,2,3-Trichloropropane	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< 4	< .04	< 4	< .4	< 3.81
1,2,4-Trimethylbenzene	0.03	< .1	0.03	1.3	0.05	< 1	0.12	< .95
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,2-Dibromoethane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,2-Dichlorobenzene	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
1,2-Dichloroethane	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
1,2-Dichloropropane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,3,5-Trimethylbenzene	< .01	< .1	0.01	< 1	0.02	< 1	< .1	< .95
1,3-Dichlorobenzene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
1,3-Dichloropropane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
1,4-Dichlorobenzene	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
2,2-Dichloropropane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
2-Butanone	< .04	< .4	< .04	< 4	0.06	< 4	< .4	< 3.81
2-Chlorotoluene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
4-Chlorotoluene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
Acetone	< .03	1.7	< .03	< 3	< .03	< 3	0.85	< 2.86
Benzene	1.6	1.4	1.6	< 3	0.51	< 3	< .3	2.9
Bromobenzene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
Bromochloromethane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Bromodichloromethane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Bromoform	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
Bromomethane	< .03	< .3	< .03	< 3	0.04	< 3	< .3	< 2.86
Carbon Disulfide	0.09	< .4	0.25	< 4	0.14	< 4	< .4	< 3.81
Carbon Tetrachloride	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Chlorobenzene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
Chloroethane	< .08	< .8	< .08	< 8	< .08	< 8	< .81	< 7.62
Chloroform	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Chloromethane	< .03	< .3	< .03	< 3	0.39	< 3	< .3	< 2.86
Dibromochloromethane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Dibromromethane	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Dichlorodifluoromethane	< .04	1.1	< .04	< 4	< .04	< 4	< .4	< 3.81
Ethylbenzene	0.04	< .1	0.08	< 1	0.19	< 1	< .1	< .95
Hexachlorobutadiene	< .04	< .4	< .04	< 4	< .04	< 4	< .4	< 3.81
Isopropylbenzene	< .01	< .1	< .01	< 1	0.04	< 1	< .1	< .95
Methylene Chloride	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Naphthalene	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Styrene	< .04	< .4	< .04	< 4	< .04	< 4	< .4	< 3.81
Tetrachloroethene	0.09	< .2	0.03	< 2	0.03	< 2	18	2.4
Toluene	1	1.7	1.3	< 11	2.3	< 11	< 1.11	< 10.48
Total Xylenes	0.09	< .4	0.15	< 4	0.35	< 4	< .4	< 3.81
Trichloroethene	0.05	< .3	0.11	< 3	0.05	< 3	19	< 2.86
Trichlorofluoromethane	< .05	< .5	< .05	< 5	< .05	< 5	0.81	< 4.76
Vinyl Chloride	11 J	9.7	36 J	21	50 J	29	< .71	< 6.67
cis-1,2-dichloroethene	1.7	2	1.7	< 3	4.2 J	3.1	0.6	7.1
cis-1,3-Dichloropropene	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
m & p-Xylenes	0.07	< .4	0.12	< 4	0.23	< 4	< .4	< 3.81
n-Butylbenzene	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
n-Propylbenzene	< .01	< .1	< .01	< 1	0.03	< 1	< .1	< .95
o-Xylene	0.02	< .1	0.03	< 1	0.12	< 1	< .1	< .95
p-Isopropyltoluene	< .02	< .2	< .02	< 2	< .02	< 2	< .2	< 1.9
s-Butylbenzene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
t-Butylbenzene	< .01	< .1	< .01	< 1	< .01	< 1	< .1	< .95
trans-1,2-Dichloroethene	< .05	< .5	< .05	< 5	0.15	< 5	0.92	< 4.76
trans-1,3-dichloropropene	< .03	< .3	< .03	< 3	< .03	< 3	< .3	< 2.86
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	1400	1400	1990					

TABLE E-1
Soil-Gas Summary of Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG215494 SGG2154JE** 3/16/95	SG215594 SGG2155JE* 3/16/95	SG215594 SGG2191JE* 3/16/95	SG215694 SGG2156JE 3/16/95
Test Group:GC/MS Units: µg/L			DUP	
1,1,1,2-Tetrachloroethane	< 1.9	< .2	< .2	< .02
1,1,1-Trichloroethane	54	1.4	1.4	< .03
1,1,2,2-Tetrachloroethane	< 1.9	< .2	< .2	< .02
1,1,2-Trichloroethane	< 2.86	< .3	< .3	< .03
1,1-Dichloroethane	12	3.5	3.2	0.11
1,1-Dichloroethene	9	2.9	2.9	0.12
1,1-dichloropropene	< 2.86	< .3	< .3	< .03
1,2,3-Trichlorobenzene	< 2.86	< .3	< .3	< .03
1,2,3-Trichloropropane	< 1.9	< .2	< .2	< .02
1,2,4-Trichlorobenzene	< 3.81	< .4	< .4	< .04
1,2,4-Trimethylbenzene	< .95	< .1	< .1	0.03
1,2-Dibromo-3-chloropropane	< 2.86	< .3	< .3	< .03
1,2-Dibromoethane	< 2.86	< .3	< .3	< .03
1,2-Dichlorobenzene	< 1.9	< .2	< .2	< .02
1,2-Dichloroethane	< 1.9	< .2	< .2	< .02
1,2-Dichloropropane	< 2.86	< .3	< .3	< .03
1,3,5-Trimethylbenzene	< .95	< .1	< .1	0.01
1,3-Dichlorobenzene	< .95	< .1	< .1	< .01
1,3-Dichloropropane	< 2.86	< .3	< .3	< .03
1,4-Dichlorobenzene	< 1.9	< .2	< .2	< .02
2,2-Dichloropropane	< 2.86	< .3	< .3	< .03
2-Butanone	< 3.81	< .4	< .4	< .04
2-Chlorotoluene	< .95	< .1	< .1	< .01
4-Chlorotoluene	< .95	< .1	< .1	< .01
Acetone	< 2.86	3.6	< .3	< .03
Benzene	< 2.86	0.45	0.62	0.37
Bromobenzene	< .95	< .1	< .1	< .01
Bromochloromethane	< 2.86	< .3	< .3	< .03
Bromodichloromethane	< 2.86	< .3	< .3	< .03
Bromoform	< 1.9	< .2	< .2	< .02
Bromomethane	< 2.86	< .3	< .3	< .03
Carbon Disulfide	< 3.81	< .4	< .4	< .04
Carbon Tetrachloride	< 2.86	< .3	< .3	< .03
Chlorobenzene	< .95	< .1	< .1	< .01
Chloroethane	< 7.62	< .81	< .81	< .08
Chloroform	< 2.86	< .3	< .3	< .03
Chloromethane	< 2.86	< .3	0.3	< .03
Dibromochloromethane	< 2.86	< .3	< .3	< .03
Dibromromethane	< 2.86	< .3	< .3	< .03
Dichlorodifluoromethane	< 3.81	< .4	< .4	< .04
Ethylbenzene	< .95	0.32	0.32	0.03
Hexachlorobutadiene	< 3.81	< .4	< .4	< .04
Isopropylbenzene	< .95	< .1	< .1	< .01
Methylene Chloride	< 2.86	< .3	< .3	< .03
Naphthalene	< 2.86	< .3	< .3	< .03
Styrene	< 3.81	< .4	< .4	< .04
Tetrachloroethene	5.7	1.2	1.1	0.41
Toluene	< 10.48	9.5	9.3	1.2
Total Xylenes	< 3.81	1.3	1.29	0.12
Trichloroethene	6.2	< .3	< .3	0.13
Trichlorofluoromethane	< 4.76	< .5	< .5	< .05
Vinyl Chloride	24	22	22	< .07
cis-1,2-dichloroethene	< 2.86	1	0.3	2.2
cis-1,3-Dichloropropene	< 2.86	< .3	< .3	< .03
m & p-Xylenes	< 3.81	0.87	0.86	0.09
n-Butylbenzene	< 1.9	< .2	< .2	< .02
n-Propylbenzene	< .95	< .1	< .1	< .01
o-Xylene	< .95	0.43	0.43	0.03
p-Isopropyltoluene	< 1.9	< .2	< .2	< .02
s-Butylbenzene	< .95	< .1	< .1	< .01
t-Butylbenzene	< .95	< .1	< .1	< .01
trans-1,2-Dichloroethene	< 4.76	< .5	< .5	0.06
trans-1,3-dichloropropene	< 2.86	< .3	< .3	< .03
Test Group:Gastech Units: ppm				
Hydrogen Sulfide		NA		
Methane				

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.3

Sample Location:	SG157194	SG157194	SG157394	SG157394	SG157494	SG157494	SG157994	SG158094	SG158094
Sample Identification Number:	SGG1571JE	SGG1973JE	SGG1573JER	SGG1976JE	SGG1574JE	SGG1984JE	SGG1579JER	SGG1580JE	SGG1983JE
Date Sampled:	12/22/94	12/22/94	1/6/95	1/6/95	1/11/95	1/11/95	1/6/95	1/11/95	1/11/95
Test Group:GC/MS Units: µg/L		EB		EB		DUP			EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	0.01	0.01	0.01	0.02	0.01	< .01	0.49	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.19	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.2	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	0.14	< .03	< .03	< .03	0.11	< .03	< .03	< .03
Benzene	0.73	< .03	0.55	0.13	0.27	0.11	1.1	0.28	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	0.08	< .03	< .03
Carbon Disulfide	0.07	< .04	0.19	< .04	< .04	< .04	0.15	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.05	< .03	0.03	< .03	0.08	< .03	0.06	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.07	< .01	0.03	< .01	0.02	0.01	0.02	0.33	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.04	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.16	< .14
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.43	< .11	0.22	0.12	0.16	< .11	0.41	0.55	< .11
Total Xylenes	0.09	< .04	0.08	< .01	< .04	< .04	0.06	1.33	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	1.2	12 J	0.5	0.56	0.71	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.07	< .04	0.06	< .04	< 2	< 2	0.05	0.9	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	0.03	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.17	< .01
o-Xylene	0.02	< .01	0.02	0.01	0.01	< .01	0.01	0.43	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.02	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.3

Sample Location:	SG158194	SG158294	SG158394	SG158494	SG158694	SG158694	SG158694	SG158794
Sample Identification Number:	SGG1581JE	SGG1582JER	SGG1583JER	SGG1584JE	SGG1586JER	SGG1971JER	SGG1975JE	SGG1587JE
Date Sampled:	12/22/94	1/11/95	1/11/95	1/11/95	1/5/95	1/5/95	1/5/95	12/22/94
						DUP	EB	
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.08
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.02	< .01	0.05	0.01	0.01	0.02	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	0.01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.04	< .04	< .04	< .04	0.13	0.21	< .04	0.07
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	0.78	< .03	< .03
Benzene	0.73	0.15	0.3	0.09	0.45	0.18	< .03	0.37
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	0.06	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.24	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.06	< .03	< .03	0.04	0.1	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	0.05	< .04	0.05	< .04	< .04	< .04	< .04
Ethylbenzene	0.01	0.02	0.02	0.02	0.02	0.03	< .01	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .14	< .14	0.04	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	0.02	< .06	< .02	< .02
Toluene	0.16	< .11	0.19	< .11	0.21	0.22	< .11	0.23
Total Xylenes	< .01	< .04	< .04	< .04	< .04	0.07	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	13 J	< .05	2.1	8.9 J	10 J	0.16	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< 2	< 2	< 2	< .04	0.05	< .04	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	0.01	< .01	< .01	< .01	< .01
o-Xylene	0.01	0.02	< .01	0.02	< .01	0.02	< .01	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.3

Sample Location:	SG158894	SG158994	SG159094	SG159094	SG159194	SG159394	SG159494	SG159594
Sample Identification Number:	SGG1588JE	SGG1589JE	SGG1590JE	SGG1972JE	SGG1591JE	SGG1593JE	SGG1594JER	SGG1595JER
Date Sampled:	12/22/94	12/22/94	12/22/94	12/22/94	12/22/94	12/22/94	1/5/95	1/5/95
Test Group:GC/MS Units: µg/L				DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	0.04	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.01	0.01	0.04	0.03	0.01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	0.01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.05	0.12	0.06	0.04	0.16	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.24	< .03	< .03	< .03	0.21	0.53	< .03	< .03
Benzene	0.11	0.32	0.37	0.22	0.04	0.06	0.24	0.14
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	0.2	0.14	< .04	< .04	0.04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .03	0.04	0.08	< .03	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	< .01	< .01	< .01	0.02	0.13	< .01	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	0.37	< .02	0.66
Toluene	< .11	0.17	< .11	0.15	< .11	0.51	0.15	0.11
Total Xylenes	< .04	< .04	< .01	< .04	0.08	0.4	< .04	0.05
Trichloroethene	< .03	< .03	< .03	< .03	< .03	0.08	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	0.57	0.65	0.11
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	0.03	< .03	0.11
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	< .04	< .04	0.06	0.31	< 2	0.04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	0.01	< .01	0.02	0.09	< .01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 117.3

Sample Location:	SG159694	SG159794	SG159894	SG159994	SG160094	SG160094	SG160294	SG160294
Sample Identification Number:	SGG1596JER	SGG1597JE	SGG1598JE	SGG1599JE	SGG1600JE	SGG1979JE	SGG1602JE	SGG1978JE
Date Sampled:	1/9/95	1/9/95	1/9/95	1/9/95	1/9/95	1/9/95	1/9/95	1/9/95
Test Group:GC/MS Units: µg/L						DUP		EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	0.01	0.12	< .01	0.02	< .01	0.02	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	0.05	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.05	< .04	0.16	< .04	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.31	< .03	< .03	< .03	< .03	0.09	< .03	< .03
Benzene	0.04	0.92	0.2	0.1	0.03	< .03	0.35	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	0.05	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	0.04	0.04	< .03	0.98	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	0.04	< .04	< .04
Ethylbenzene	< .01	0.02	0.09	< .01	0.01	< .01	0.03	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	0.02	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	0.04	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .14	< .03	< .14	< .14	< .14	< .14	< .14	< .14
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.12	0.32	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	< .11	0.17	0.41	< .11	< .11	< .11	0.14	< .11
Total Xylenes	< .04	< .04	0.4	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	0.3	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	0.03	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.01	0.1	< .01	0.01	< .01	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	0.01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 152

Sample Location:	SG160694	SG160794	SG160794	SG160894	SG160894	SG160994	SG161194	SG161294	SG161394
Sample Identification Number:	SGG1606JE	SGG1607JE	SGG1997JE	SGG1608JE	SGG1998JE	SGG1609JE	SGG1611JE	SGG1612JE	SGG1613JE
Date Sampled:	1/21/95	1/21/95	1/21/95	1/21/95	1/21/95	1/21/95	1/10/95	1/21/95	1/21/95
Test Group:GC/MS Units: µg/L			EB		DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.27	0.01	0.07	0.06	0.02	0.02	0.01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	0.08	< .01	0.02	0.02	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	0.11	0.05	< .04	0.09	0.07	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	< .03	0.06	0.03	1.1	0.5	0.09	0.41	0.3	0.08
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	0.04	< .04	< .04	0.06	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .03	0.03	< .03	0.05	0.23	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	0.06	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.02	< .01	0.13	0.14	0.01	0.08	0.03	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	0.02	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	0.5	< .03	0.44	0.13	0.2	< .03	0.04	0.05
Styrene	< .04	< .04	< .04	< .04	0.05	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	0.23	0.02	0.02
Toluene	< .11	< .11	0.12	0.69	0.43	< .11	0.33	0.2	< .11
Total Xylenes	< .04	< .04	< .04	0.22	0.17	< .04	0.12	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	0.15	< .05	< .05	< .05	1.9	< .05	< .05	4.7 J
Vinyl Chloride	< .07	< .07	< .07	1.6	0.41	< .07	0.13	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	0.33	0.14	< .03	0.05	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	0.16	0.12	< 2	0.08	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	0.01	< .01	< .01
o-Xylene	< .01	0.01	< .01	0.06	0.05	0.01	0.04	0.01	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 152

Sample Location:	SG161394	SG161394	SG161494	SG161594	SG161594	SG161694	SG161794	SG161994
Sample Identification Number:	SGG1613JE*R	SGG1980JE	SGG1614JE	SGG1615JE	SGG1977JE	SGG1616JE	SGG1617JE	SGG1619JE
Date Sampled:	1/21/95	1/10/95	1/6/95	1/6/95	1/6/95	1/10/95	1/10/95	1/21/95
Test Group:GC/MS Units: µg/L		EB			EB			
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	0.01	< .01	< .01	< .01	0.04	0.03	0.01
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .01	0.01	0.01	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .4	< .04	< .04	< .04	< .04	0.13	0.06	0.1
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	1.7	< .03	< .03	< .03	0.05	< .03	< .03	< .03
Benzene	0.3	< .03	0.12	0.36	< .03	0.29	0.25	0.48
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .4	< .04	< .04	< .04	< .04	< .04	< .04	0.09
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .8	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .3	< .03	< .03	0.04	< .03	1.1	< .03	0.17
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	0.04	< .04	0.1	< .04	< .04
Ethylbenzene	< .1	< .01	0.02	< .01	< .01	0.04	0.03	0.08
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	0.01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	0.03	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .03	< .14	< .14	< .03
Styrene	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .2	< .02	< .02	0.08	< .02	< .02	0.09	< .02
Toluene	< 1.1	< .11	< .11	0.16	< .11	0.16	0.13	0.3
Total Xylenes	< .4	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	31	< .05	6.2 J	14 J	8 J	2.7	< .05	< .05
Vinyl Chloride	< .7	< .07	< .07	< .07	< .07	< .07	< .07	0.9
cis-1,2-dichloroethene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	0.06
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< .04	< .04	< .04	< 2	< 2	< 2
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	< .01	< .01	< .01	0.01	< .01	< .01
o-Xylene	< .1	< .01	< .01	< .01	< .01	0.03	0.04	0.02
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 134N

Sample Location:	SG159294	SG160194	SG161094	SG161894	SG162494	SG162594	SG162694	SG162794
Sample Identification Number:	SGG1592JE	SGG1601JE	SGG1610JE	SGG1618JER	SGG1624JE	SGG1625JE	SGG1626JE	SGG1627JER
Date Sampled:	8/23/94	8/23/94	8/23/94	12/23/94	9/9/94	8/23/94	9/9/94	12/23/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	0.49	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	0.07	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	0.11	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .1	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.99	0.1	0.05	0.08	0.02	0.03	< .01	0.05
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.44	0.03	0.02	0.03	< .01	0.01	< .01	0.02
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.29	< .04	0.14	< .04	< .04	< .04	0.15	0.04
2-Chlorotoluene	0.12	0.01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	0.05	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	1.9	0.41	0.27	< .03	0.51	1.1	0.64	< .03
Benzene	0.32	0.28	0.27	0.09	0.05	0.66	0.19	0.39
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	0.06	0.07
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .1	< .08	< .08	< .08	0.98	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.1	< .1	< .08	< .08	< .08	< .08	< .08	< .08
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	0.37	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.37	0.07	0.05	0.03	0.43	0.13	0.33	0.25
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.08	0.01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	0.05	0.04	< .03	0.09	< .03	< .03	< .03	NA
Styrene	< .04	< .04	< .04	< .04	< .04	0.19	< .04	< .04
Tetrachloroethene	1.3	0.15	0.02	< .02	0.09	< .02	< .02	< .02
Toluene	0.31	0.2	0.19	< .11	< .11	0.46	0.19	0.31
Total Xylenes	1.66	0.21	0.11	0.14	3.3	0.21	1.64	0.3
Trichloroethene	1.2	0.08	< .03	< .03	0.07	< .03	< .03	< .03
Trichlorofluoromethane	0.1	< .1	0.1	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .1	< .07	< .07	0.58	< .07	< .07	0.46
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	0.2	< .03	< .03	0.06
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.99	0.1	0.06	0.11	1.7	0.13	0.98	0.28
n-Butylbenzene	0.04	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.27	0.03	0.02	0.02	< .01	0.01	< .01	< .01
o-Xylene	0.67	0.11	0.05	0.03	1.6	0.08	0.66	0.02
p-Isopropyltoluene	0.02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	0.02	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .1	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	90	90	100		450	90		

TABLE E-1
Soil-Gas Summary of Results
IHSS 134N

Sample Location:	SG162894	SG162994	SG162994	SG163094	SG163094	SG163094	SG163194	SG163194
Sample Identification Number:	SGG1628JE	SGG1629JE	SGG1900JE	SGG1630JE	SGG1630JE*	SGG1630JER	SGG1631JE	SGG1901JE
Date Sampled:	9/9/94	9/9/94	9/9/94	9/9/94	1/4/95	1/4/95	9/12/94	9/12/94
Test Group:GC/MS Units: µg/L			EB					DUP
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	0.21	< .3	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .3	0.42	0.03	0.03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.01	0.02	0.01	< .1	0.02	0.03	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
2-Butanone	0.13	0.05	< .04	0.26	< .4	0.08	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Acetone	0.35	0.33	0.06	1.4	< .3	< .03	0.6	0.28
Benzene	0.14	0.14	< .03	0.31	0.95	1.1	< .03	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .3	0.09	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	0.06	< .4	0.26	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .81	4.3 J	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Chloromethane	< .08	< .08	< .08	< .08	< .3	0.09	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	2.2	< .04	< .04
Ethylbenzene	0.86	0.04	< .01	3 J	< .1	0.02	0.01	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	0.01	< .1	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Naphthalene	< .03	< .03	0.09	< .03	< .3	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Tetrachloroethene	< .02	0.03	0.04	< .02	< .2	< .02	< .02	< .02
Toluene	0.17	0.12	< .11	0.39	< 1.11	0.43	< .11	< .11
Total Xylenes	2.86	0.09	< .01	9.6 J	< 2	0.05	0.04	< .02
Trichloroethene	< .03	0.03	< .03	< .03	< .3	0.65	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .5	11 J	< .05	< .05
Vinyl Chloride	0.58	0.7	< .07	< .07	< .71	1	< .07	< .07
cis-1,2-dichloroethene	0.07	0.13	< .03	< .03	< .3	0.11	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
m & p-Xylenes	2	0.06	< .02	4.4 J	< 2	0.05	0.02	< .02
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	0.01	< .1	< .01	< .01	< .01
o-Xylene	0.86	0.03	0.01	5.2 J	< .1	0.01	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .2	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	90	110						

TABLE E-1
Soil-Gas Summary of Results
IHSS 134N

Sample Location:	SG163294	SG163394	SG163394	SG212894	SG212994	SG216394	SG216394	SG216394	SG216494
Sample Identification Number:	SGG1632JE	SGG1633JE	SGG1633JE*	SGG2128JE	SGG2129JE*	SGG2163JE	SGG2194JE	SGG2195JE	SGG2164JE
Date Sampled:	9/12/94	9/12/94	9/12/94	3/22/95	3/8/95	3/23/95	3/23/95	3/23/95	3/23/95
Test Group:GC/MS Units: µg/L							EB	DUP	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	0.03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .3	< .03	0.38	0.03	< .03	< .03	< .03
1,1-Dichloroethene	0.06	< .05	< .5	< .05	< .5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .1	< .01	< .1	0.07	0.02	0.06	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .01	< .1	0.03	< .01	0.03	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .4	< .04	< .4	0.21	0.08	0.35	0.11
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .1	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .3	< .03	< .3	2.2	0.33	< .03	1.2
Benzene	< .03	< .03	< .3	0.34	0.64	1.6	0.04	1.3	0.51
Bromobenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .4	< .04	< .4	0.13	< .04	0.11	0.06
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	< .01	< .1	0.02	< .01	< .01	0.01
Chloroethane	< .08	< .08	< .81	< .08	1.1	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .3	0.03	< .3	< .03	0.12	0.12	0.04
Dibromochloromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	0.5	< .04	< .04	0.05	< .04
Ethylbenzene	< .01	< .01	< .1	0.01	0.12	0.17	0.02	0.14	0.06
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .4	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .1	< .01	< .1	0.02	< .01	0.02	< .01
Methylene Chloride	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .4	< .04	< .4	0.04	< .04	0.04	< .04
Tetrachloroethene	< .02	1.9	2.5	< .02	< .2	< .02	< .02	< .02	< .02
Toluene	< .11	< .11	< 1.11	0.35	< 1.11	1.1	1.3	0.11	0.44
Total Xylenes	< .02	< .02	< .2	< .04	< .4	0.37	0.1	0.36	0.13
Trichloroethene	< .03	0.21	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .5	0.16	< .5	0.29	4.9 J	1.5	2.1
Vinyl Chloride	7.8 J	2.2 J	< .71	< .07	7.9	0.27	< .07	< .07	0.1
cis-1,2-dichloroethene	1.7	5.2 J	1	< .03	0.62	0.06	< .03	0.08	0.05
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
m & p-Xylenes	< .02	< .02	< .2	< .04	< .4	0.25	0.07	0.24	0.09
n-Butylbenzene	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .1	< .01	< .1	0.04	< .01	0.03	< .01
o-Xylene	< .01	< .01	< .1	< .01	< .1	0.12	0.03	0.12	0.04
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .2	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< .01	< .1	0.01	< .01	0.01	< .01
t-Butylbenzene	< .01	< .01	< .1	< .01	< .1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	0.07	0.16	< .5	< .05	< .5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane	10	10	10						

TABLE E-1
Soil-Gas Summary of Results
IHSS 134N

Sample Location:	SG216494
Sample Identification Number:	SGG2196JE
Date Sampled:	3/23/95
Test Group:GC/MS Units: µg/L	DUP
1,1,1,2-Tetrachloroethane	< .02
1,1,1-Trichloroethane	< .03
1,1,2,2-Tetrachloroethane	< .02
1,1,2-Trichloroethane	< .03
1,1-Dichloroethane	< .03
1,1-Dichloroethene	< .05
1,1-dichloropropene	< .03
1,2,3-Trichlorobenzene	< .03
1,2,3-Trichloropropane	< .02
1,2,4-Trichlorobenzene	< .04
1,2,4-Trimethylbenzene	0.02
1,2-Dibromo-3-chloropropane	< .03
1,2-Dibromoethane	< .03
1,2-Dichlorobenzene	< .02
1;2-Dichloroethane	< .02
1,2-Dichloropropane	< .03
1,3,5-Trimethylbenzene	< .01
1,3-Dichlorobenzene	< .01
1,3-Dichloropropane	< .03
1,4-Dichlorobenzene	< .02
2,2-Dichloropropane	< .03
2-Butanone	0.14
2-Chlorotoluene	< .01
4-Chlorotoluene	< .01
Acetone	< .03
Benzene	0.64
Bromobenzene	< .01
Bromochloromethane	< .03
Bromodichloromethane	< .03
Bromoform	< .02
Bromomethane	< .03
Carbon Disulfide	0.05
Carbon Tetrachloride	< .03
Chlorobenzene	0.01
Chloroethane	< .08
Chloroform	< .03
Chloromethane	0.03
Dibromochloromethane	< .03
Dibromromethane	< .03
Dichlorodifluoromethane	< .04
Ethylbenzene	0.06
Hexachlorobutadiene	< .04
Isopropylbenzene	< .01
Methylene Chloride	< .03
Naphthalene	< .03
Styrene	< .04
Tetrachloroethene	< .02
Toluene	0.46
Total Xylenes	0.14
Trichloroethene	< .03
Trichlorofluoromethane	6.2 J
Vinyl Chloride	< .07
cis-1,2-dichloroethene	0.05
cis-1,3-Dichloropropene	< .03
m & p-Xylenes	0.1
n-Butylbenzene	< .02
n-Propylbenzene	0.01
o-Xylene	0.04
p-Isopropyltoluene	< .02
s-Butylbenzene	< .01
t-Butylbenzene	< .01
trans-1,2-Dichloroethene	< .05
trans-1,3-dichloropropene	< .03
Test Group:Gastech Units: ppm	
Hydrogen Sulfide	
Methane	

TABLE E-1
Soil-Gas Summary of Results
IHSS 128

Sample Location: Sample Identification Number: Date Sampled:	SG163494 SGG1634JE 9/12/94	SG163494 SGG1634JE* 9/12/94	SG163494 SGG1902JE 9/12/94
Test Group:GC/MS Units: µg/L			
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .3	< .03
1,1-Dichloroethane	0.44	< .3	< .03
1,1-Dichloroethene	< .05	< .5	< .05
1,1-dichloropropene	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .04
1,2,4-Trimethylbenzene	< .01	< .1	< .01
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .1	< .01
1,3-Dichlorobenzene	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .3	< .03
2-Butanone	0.04	< .4	< .04
2-Chlorotoluene	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .1	< .01
Acetone	0.07	< .3	< .03
Benzene	0.05	< .3	< .03
Bromobenzene	< .01	< .1	< .01
Bromochloromethane	< .03	< .3	< .03
Bromodichloromethane	< .03	< .3	< .03
Bromoform	< .02	< .2	< .02
Bromomethane	< .03	< .3	< .03
Carbon Disulfide	< .04	< .4	< .04
Carbon Tetrachloride	< .03	< .3	< .03
Chlorobenzene	< .01	< .1	< .01
Chloroethane	< .08	< .81	< .08
Chloroform	< .03	< .3	< .03
Chloromethane	< .03	< .3	< .03
Dibromochloromethane	< .03	< .3	< .03
Dibromromethane	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .4	< .04
Ethylbenzene	< .01	< .1	< .01
Hexachlorobutadiene	< .04	< .4	< .04
Isopropylbenzene	< .01	< .1	< .01
Methylene Chloride	< .03	< .3	< .03
Naphthalene	< .03	< .3	< .03
Styrene	< .04	< .4	< .04
Tetrachloroethene	0.29	0.28	0.27
Toluene	< .11	< 1.11	< .11
Total Xylenes	< .02	< .2	< .01
Trichloroethene	< .03	< .3	< .03
Trichlorofluoromethane	4 J	1.9	< .05
Vinyl Chloride	0.18	< .71	< .07
cis-1,2-dichloroethene	0.18	< .3	0.05
cis-1,3-Dichloropropene	< .03	< .3	< .03
m & p-Xylenes	< .02	< .2	< .02
n-Butylbenzene	< .02	< .2	< .02
n-Propylbenzene	< .01	< .1	< .01
o-Xylene	0.02	< .1	0.01
p-Isopropyltoluene	< .02	< .2	< .02
s-Butylbenzene	< .01	< .1	< .01
t-Butylbenzene	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .5	< .05
trans-1,3-dichloropropene	< .03	< .3	< .03
Test Group:Gastech Units: ppm			
Hydrogen Sulfide			
Methane	10	10	

TABLE E-1
Soil-Gas Summary of Results
IHSS 171

Sample Location:	SG163594	SG163694	SG163794	SG163894	SG163994	SG164094	SG164094	SG164194
Sample Identification Number:	SGG1635JE	SGG1636JE	SGG1637JE	SGG1638JE	SGG1639JE	SGG1640JE	SGG1640JE*	SGG1641JE
Date Sampled:	9/12/94	9/16/94	9/13/94	9/13/94	9/12/94	9/12/94	1/4/95	9/16/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	0.1	< .3	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
1,2,4-Trimethylbenzene	< .01	0.03	0.04	< .01	< .01	0.02	< .1	0.04
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	0.01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
2-Butanone	< .04	0.23	< .04	0.06	0.16	< .04	< .4	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Acetone	< .03	< .03	< .03	0.27	0.46	< .03	< .3	< .03
Benzene	< .03	0.34	0.38	0.09	0.3	1	.77 *	0.11
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .03	0.22	< .03	< .03	< .3	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	0.48	< .4	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chloromethane	< .03	0.05	< .03	0.03	< .03	0.04	1.9 *	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Ethylbenzene	< .01	0.07	0.05	0.02	0.06	0.01	< .1	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	0.05	< .3	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Tetrachloroethene	< .02	0.06	0.05	0.38	1.1	0.05	0.3	6.8 J
Toluene	< .11	0.26	0.45	< .11	0.2	0.22	< 1.11	< .11
Total Xylenes	< .02	0.09	0.08	< .01	0.07	0.1	< .4	0.09
Trichloroethene	< .03	< .03	< .03	< .03	0.1	1.8	1.7	0.24
Trichlorofluoromethane	< .05	< .05	1.2	0.44	1	< .05	< .5	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	0.23	7.2 J	2.7	0.11
cis-1,2-dichloroethene	< .03	< .03	0.04	< .03	0.13	3.5	2.2	0.06
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
m & p-Xylenes	< .02	0.05	0.05	< .02	0.04	0.04	< 2	0.05
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
n-Propylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .1	0.01
o-Xylene	< .01	0.04	0.03	0.01	0.03	0.01	< .1	0.04
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	10	50	30					20

TABLE E-1
Soil-Gas Summary of Results
IHSS 171

Sample Location:	SG164194	SG164294	SG164394	SG164494	SG164494	SG164594	SG164694	SG164694
Sample Identification Number:	SGG1641JE*R	SGG1642JE	SGG1643JE	SGG1644JE	SGG1644JE*R	SGG1645JE	SGG1646JE	SGG1913JE
Date Sampled:	12/23/94	9/16/94	9/16/94	9/16/94	1/4/95	9/16/94	9/20/94	9/20/94
Test Group:GC/MS Units: µg/L								EB
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethene	< .51	< .05	< .05	< .05	< .5	< .05	< .05	< .05
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .4	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .1	< .01	< .01	0.02	0.14	0.02	0.1	< .01
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .1	< .01	< .01	< .01	< .1	< .01	0.04	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
2-Butanone	< .4	< .04	0.05	0.2	< .4	0.05	< .04	0.06
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Acetone	< .3	0.11	0.21	< .03	< .3	< .03	< .03	0.16
Benzene	< .3	0.05	0.05	0.4	2.7	0.06	0.08	< .03
Bromobenzene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Bromoform	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Carbon Disulfide	< .4	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Chlorobenzene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
Chloroethane	< .81	< .08	< .08	< .08	< .81	< .08	< .08	< .08
Chloroform	< .3	< .03	< .03	0.05	< .3	< .03	< .03	< .03
Chloromethane	< .81	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dibromochloromethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Dichlorodifluoromethane	< .4	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Ethylbenzene	< .1	0.01	< .01	0.07	0.14	0.01	0.07	< .01
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .4	< .04	< .04	< .04
Isopropylbenzene	< .1	< .01	< .01	< .01	< .1	< .01	0.01	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Naphthalene	< .3	< .03	< .03	< .03	< .3	0.06	< .03	< .03
Styrene	< .4	< .04	< .04	0.04	< .4	< .04	< .04	< .04
Tetrachloroethene	< .2	0.02	< .02	3.8 J	< .2	0.27	< .02	< .02
Toluene	< 1.11	< .11	< .11	0.23	< 1.11	< .11	< .11	< .11
Total Xylenes	< .4	< .02	< .02	0.07	0.55	< .01	0.25	< .02
Trichloroethene	< .3	< .03	< .03	0.04	< .3	0.08	< .03	< .03
Trichlorofluoromethane	< .51	< .05	< .05	0.11	< .5	< .05	< .05	< .05
Vinyl Chloride	< .71	< .07	< .07	< .07	< .71	< .07	< .07	< .07
cis-1,2-dichloroethene	< .3	< .03	< .03	0.03	< .3	0.1	< .03	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
m & p-Xylenes	< .4	< .02	< .02	0.03	0.44	< .02	0.15	< .02
n-Butylbenzene	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
n-Propylbenzene	< .1	< .01	< .01	0.02	< .1	< .01	0.03	< .01
o-Xylene	< .1	< .01	< .01	0.04	0.11	0.01	0.1	< .01
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .2	< .02	< .02	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .1	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .51	< .05	< .05	< .05	< .5	< .05	< .05	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .3	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		20		80				

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG164794	SG164894	SG164894	SG164994	SG165094	SG165094	SG165194	SG165194
Sample Identification Number:	SGG1647JE	SGG1648JE	SGG1909JE	SGG1649JE	SGG1650JE	SGG1908JE	SGG1651JE	SGG1651JE*R
Date Sampled:	9/20/94	9/16/94	9/16/94	9/20/94	9/16/94	9/16/94	9/16/94	12/23/94
Test Group:GC/MS Units: µg/L			EB			EB		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	0.04	< .3
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	0.06	< .51
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
1,2,4-Trimethylbenzene	0.01	< .01	< .01	0.03	< .01	< .01	0.02	0.11
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
2-Butanone	0.04	0.19	< .04	< .04	0.27	0.05	0.06	< .4
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Acetone	< .03	< .03	0.09	< .03	0.48	0.23	0.41	< .3
Benzene	0.07	0.53	< .03	0.39	0.33	0.03	0.21	< .3
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Carbon Disulfide	< .04	0.13	< .04	0.12	0.09	< .04	< .04	< .4
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .81
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Chloromethane	< .03	0.32	< .03	0.28	0.06	< .03	< .03	< .81
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Ethylbenzene	0.02	0.05	< .01	0.09	0.05	< .01	0.05	< .1
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Tetrachloroethene	< .02	0.02	< .02	< .02	0.03	0.06	4.8 J	< .2
Toluene	< .11	0.28	< .11	0.29	0.2	< .11	0.26	< 1.11
Total Xylenes	< .02	0.04	< .02	0.06	< .02	< .02	0.04	< .4
Trichloroethene	< .03	< .03	< .03	0.08	< .03	< .03	2.9 J	< .3
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .51
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	0.42	< .71
cis-1,2-dichloroethene	< .03	0.08	< .03	< .03	< .03	< .03	8 J	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
m & p-Xylenes	< .02	0.02	< .02	0.03	< .02	< .02	0.02	< .4
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
o-Xylene	0.02	0.02	< .01	0.03	0.02	< .01	0.02	< .1
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .51
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	20	50		30			50	

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG165194	SG165194	SG165294	SG165294	SG165394	SG165494	SG165494	SG165594
Sample Identification Number:	SGG1974JE	SGG1907JE	SGG1652JE	SGG1652JE*R	SGG1653JE	SGG1654JE	SGG1654JE*R	SGG1655JE
Date Sampled:	12/23/94	9/16/94	9/13/94	2/22/95	9/13/94	9/13/94	1/4/95	9/13/94
Test Group:GC/MS Units: µg/L	EB							
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .3	< .03	5.5 J	1.7	0.21
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .3	< .03	0.14	< .3	< .03
1,1-Dichloroethene	< .05	< .05	0.26	< .5	< .05	< .05	< .5	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04
1,2,4-Trimethylbenzene	0.15	0.02	< .01	< .1	< .01	0.03	< .1	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,3,5-Trimethylbenzene	0.06	< .01	< .01	< .1	< .01	< .01	< .1	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
2-Butanone	< .04	0.06	0.09	< .4	< .04	0.11	< .4	0.08
2-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
Acetone	< .03	< .03	0.37	< .3	0.12	0.65	< .3	0.23
Benzene	0.06	0.11	0.33	0.42	0.08	0.2	0.41	0.06
Bromobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Bromoform	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Carbon Disulfide	< .04	< .04	0.05	< .4	< .04	< .04	< .4	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .3	< .03	0.04	< .3	< .03
Chlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
Chloroethane	< .08	< .08	< .08	< .81	< .08	< .08	< .81	< .08
Chloroform	< .03	< .03	0.08	< .3	< .03	< .03	< .3	< .03
Chloromethane	< .08	< .03	< .03	0.5	< .03	0.14	< .3	< .03
Dibromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04
Ethylbenzene	0.07	0.04	0.07	0.12	0.02	0.07	< .1	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .4	< .04	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
Methylene Chloride	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Naphthalene	NA	< .03	< .03	NA	< .03	< .03	< .3	< .03
Styrene	< .04	< .04	0.05	< .4	< .04	0.04	< .4	< .04
Tetrachloroethene	< .02	5.3 J	3.9 J	3.7	0.7	35 J	< .2	3.6 J
Toluene	0.21	0.17	0.28	< 1.11	< .11	0.18	< 1.11	< .11
Total Xylenes	0.41	0.04	0.08	< .4	< .01	0.09	< .4	< .01
Trichloroethene	< .03	2.4 J	2 J	1.7	0.3	2	0.56	0.08
Trichlorofluoromethane	< .05	< .05	0.6	< .5	1.9	2.3 J	< .5	1.3
Vinyl Chloride	< .07	0.28	0.18	< .71	< .07	< .07	< .71	< .07
cis-1,2-dichloroethene	< .03	6.6 J	4.2 J	2.6	0.23	0.06	< .3	0.03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
m & p-Xylenes	0.32	0.02	0.04	< .4	< .02	0.05	< .4	< .02
n-Butylbenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
n-Propylbenzene	0.03	< .01	0.01	< .1	< .01	0.01	< .1	< .01
o-Xylene	0.09	0.02	0.04	< .1	0.01	0.04	< .1	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .2	< .02	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .5	< .05	< .05	< .5	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		50	30		20	20		

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG165694	SG165694	SG165694	SG165694	SG165794	SG165894	SG165894	SG165994
Sample Identification Number:	SGG1656JE	SGG1656JE*	SGG1904JE	SGG2022JE	SGG1657JE	SGG1658JE	SGG1658JE*R	SGG1659JE
Date Sampled:	9/13/94	2/8/95	9/13/94	2/8/95	9/15/94	9/15/94	1/4/95	9/15/94
Test Group:GC/MS Units: µg/L			EB	EB				
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethane	0.05	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethene	< .05	< .5	< .05	< .05	< .05	< .05	< .5	< .05
1,1-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .04	< .04	< .04	< .4	< .04
1,2,4-Trimethylbenzene	0.02	< .1	< .01	< .01	< .01	< .01	< .1	0.02
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
2-Butanone	0.1	< .4	< .04	0.05	0.12	0.11	< .4	0.14
2-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
Acetone	0.45	1.2	0.12	0.19	< .03	< .03	< .3	< .03
Benzene	0.24	0.48	< .03	< .06	0.13	0.26	0.41	0.32
Bromobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
Bromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Bromodichloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Bromoform	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
Bromomethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Carbon Disulfide	< .04	< .4	< .04	< .04	0.05	< .04	< .4	0.07
Carbon Tetrachloride	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Chlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
Chloroethane	< .08	< .81	< .08	< .08	< .08	< .08	< .81	< .08
Chloroform	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Chloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	0.05
Dibromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Dibromromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .4	< .04	< .04	< .04	< .04	< .4	< .04
Ethylbenzene	0.06	< .1	< .01	< .01	0.02	0.07	< .1	0.05
Hexachlorobutadiene	< .04	< .4	< .04	< .04	< .04	< .04	< .4	< .04
Isopropylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
Methylene Chloride	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Naphthalene	0.04	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Styrene	< .04	< .4	< .04	< .04	< .04	< .04	< .4	< .04
Tetrachloroethene	0.27	< .2	0.13	< .02	0.23	13 J	< .2	0.42
Toluene	0.21	< 1.11	< .11	< .11	< .11	0.27	< 1.11	0.23
Total Xylenes	0.09	< .4	< .02	< .04	< .01	0.06	< .4	0.07
Trichloroethene	0.09	< .3	< .03	< .03	0.7	0.7	< .3	0.19
Trichlorofluoromethane	0.84	< .5	0.29	< .05	< .05	< .05	< .5	0.62
Vinyl Chloride	2.4 J	3.3	< .07	< .07	< .07	< .07	< .71	< .07
cis-1,2-dichloroethene	9.2 J	9.8	< .03	< .03	1.4	0.22	< .3	0.13
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
m & p-Xylenes	0.05	< 2	< .02	< 2	< .02	0.03	< .4	0.04
n-Butylbenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
n-Propylbenzene	0.01	< .1	< .01	< .01	< .01	0.01	< .1	0.01
o-Xylene	0.04	< .1	< .01	< .01	0.01	0.03	< .1	0.03
p-Isopropyltoluene	< .02	< .2	< .02	< .02	< .02	< .02	< .2	< .02
s-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
t-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .1	< .01
trans-1,2-Dichloroethene	0.08	< .5	< .05	< .05	< .05	< .05	< .5	< .05
trans-1,3-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	60				160			

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG165994	SG166094	SG166094	SG166194	SG166294	SG166394	SG166394	SG166494
Sample Identification Number:	SGG1905JE	SGG1660JE	SGG1906JE	SGG1661JE	SGG1662JE	SGG1663JE	SGG1663JE*R	SGG1664JE
Date Sampled:	9/15/94	9/15/94	9/15/94	9/15/94	9/15/94	9/15/94	1/4/95	9/16/94
Test Group:GC/MS Units: µg/L	DUP		EB					
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	0.96	1.3	0.06
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	0.11	< .3	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	0.06	3.9 J	4.5	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
1,2,4-Trimethylbenzene	0.02	0.03	< .01	0.02	< .01	< .01	< .1	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
2-Butanone	0.06	0.15	< .04	0.07	< .04	0.06	< .4	0.09
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Acetone	< .03	0.45	0.09	< .03	0.12	0.26	< .3	0.3
Benzene	0.14	0.16	0.03	0.29	0.03	0.11	0.45	0.1
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Carbon Disulfide	< .04	0.05	< .04	0.09	< .04	< .04	0.54	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Chloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Ethylbenzene	0.06	0.06	< .01	0.08	< .01	0.03	< .1	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04
Tetrachloroethene	0.41	0.15	0.02	0.2	0.02	0.62	< .2	0.49
Toluene	0.14	0.16	< .11	0.26	< .11	< .11	< 1.11	< .11
Total Xylenes	0.05	0.09	< .02	0.07	< .02	< .01	< .4	< .01
Trichloroethene	0.15	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Trichlorofluoromethane	0.42	0.12	0.41	0.17	4.3 J	0.43	< .5	0.46
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .71	< .07
cis-1,2-dichloroethene	0.1	< .03	< .03	< .03	< .03	< .03	< .3	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
m & p-Xylenes	0.03	0.05	< .02	0.04	< .02	< .02	< .4	< .02
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
n-Propylbenzene	< .01	0.02	< .01	0.01	< .01	< .01	< .1	< .01
o-Xylene	0.02	0.04	< .01	0.03	< .01	0.01	< .1	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane		20		60	40			

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SG166694 SGG1666JE 1/26/95	SG166794 SGG1667JE 1/26/95	SG166894 SGG1668JE* 1/26/95	SG166894 SGG2004JE* 1/26/95	SG166994 SGG1669JE*R 3/28/95	SG167094 SGG1670JE**R2 3/13/95	SG167194 SGG1671JE 9/16/94	SG167294 SGG2098JE 2/15/95
Test Group:GC/MS Units: µg/L				DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
1,1,1-Trichloroethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
1,1,2-Trichloroethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,1-Dichloroethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,1-Dichloroethene	< .05	< .05	< .5	< .5	< .5	< 4.8	< .05	< .5
1,1-dichloropropene	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,2,3-Trichloropropane	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .4	< .4	< 3.8	< .04	< .4
1,2,4-Trimethylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	0.04	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,2-Dibromoethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,2-Dichlorobenzene	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
1,2-Dichloroethane	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
1,2-Dichloropropane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	0.02	< .1
1,3-Dichlorobenzene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
1,3-Dichloropropane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
1,4-Dichlorobenzene	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
2,2-Dichloropropane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
2-Butanone	0.08	0.08	< .4	< .4	< .4	< 3.8	0.15	< .4
2-Chlorotoluene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
4-Chlorotoluene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
Acetone	< .03	< .03	< .3	0.34	0.9	10	< .03	< .3
Benzene	0.79	0.59	5.5	0.46	0.38	< 2.9	0.38	0.8
Bromobenzene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
Bromochloromethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Bromodichloromethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Bromoform	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
Bromomethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Carbon Disulfide	0.16	0.15	< .4	< .4	< .4	< 3.8	0.08	< .4
Carbon Tetrachloride	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Chlorobenzene	< .01	< .01	0.37	< .1	< .1	< 1	< .01	< .1
Chloroethane	< .08	< .08	< .81	< .81	< .81	< 7.6	< .08	< .81
Chloroform	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Chloromethane	0.04	0.06	< .3	< .3	< .3	< 2.9	0.36	< .3
Dibromochloromethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Dibromromethane	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Dichlorodifluoromethane	< .04	< .04	< .4	< .4	< .4	< 3.8	< .04	< .4
Ethylbenzene	0.04	0.02	< .1	< .1	< .1	< 1	0.1	< .1
Hexachlorobutadiene	< .04	< .04	< .4	< .4	< .4	< 3.8	< .04	< .4
Isopropylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	0.01	< .1
Methylene Chloride	0.05	0.03	< .3	< .3	< .3	< 2.9	< .03	< .3
Naphthalene	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Styrene	< .04	< .04	< .4	< .4	< .4	< 3.8	0.06	< .4
Tetrachloroethene	0.21	0.49	22	24	2.3	28	0.34	1.2
Toluene	0.41	0.27	< 1.11	< 1.11	< 1.11	< 10	0.79	< 1.11
Total Xylenes	< .04	< .04	< .4	< .4	< .4	< 3.8	0.12	< .4
Trichloroethene	< .03	< .03	< .3	< .3	< .3	< 2.9	0.15	< .3
Trichlorofluoromethane	< .05	< .05	2	< .5	2.9	1100 J	< .05	< .5
Vinyl Chloride	< .07	< .07	< .71	< .71	< .71	< 6.7	1.3	< .71
cis-1,2-dichloroethene	< .03	< .03	< .3	< .3	< .3	< 2.9	0.36	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
m & p-Xylenes	< 2	< 2	< 2	< 2	< .4	< 3.8	0.06	< 2
n-Butylbenzene	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
n-Propylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	0.02	< .1
o-Xylene	0.05	0.02	< .1	< .1	< .1	< 1	0.06	< .1
p-Isopropyltoluene	< .02	< .02	< .2	< .2	< .2	< 1.9	< .02	< .2
s-Butylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
t-Butylbenzene	< .01	< .01	< .1	< .1	< .1	< 1	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .5	< .5	< .5	< 4.8	< .05	< .5
trans-1,3-dichloropropene	< .03	< .03	< .3	< .3	< .3	< 2.9	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane							170	

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location:	SG167394	SG167494	SG167594	SG167694	SG167994	SG167994	SG168094	SG168094
Sample Identification Number:	SGG1673JE*R	SGG1674JER	SGG1675JE	SGG1676JE*	SGG1679JE*R	SGG1679JER	SGG1680JE	SGG1680JE*R
Date Sampled:	2/22/95	12/23/94	9/19/94	9/20/94	12/23/94	12/23/94	9/19/94	2/22/95
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
1,1,1-Trichloroethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
1,1,2-Trichloroethane	< .3	< .03	< .03	1.6	< .3	< .03	< .03	< .3
1,1-Dichloroethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,1-Dichloroethene	< .5	< .05	< .05	< .5	< .51	< .05	< .05	< .5
1,1-dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,2,3-Trichloropropane	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .4	< .4	< .04	< .04	< .4
1,2,4-Trimethylbenzene	< .1	0.07	0.02	< .1	< .1	0.04	0.11	< .1
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,2-Dibromoethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,2-Dichlorobenzene	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
1,2-Dichloroethane	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
1,2-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .1	0.03	< .01	< .1	< .1	0.02	0.13	< .1
1,3-Dichlorobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
1,3-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
1,4-Dichlorobenzene	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
2,2-Dichloropropane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
2-Butanone	< .4	0.13	< .04	< .4	< .4	< .04	< .04	< .4
2-Chlorotoluene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
4-Chlorotoluene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
Acetone	0.54	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Benzene	< .3	0.69	0.17	14	1	1.2	0.56	1.1
Bromobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
Bromochloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Bromodichloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Bromoform	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
Bromomethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Carbon Disulfide	< .4	0.09	< .04	< .4	< .4	< .04	0.04	< .4
Carbon Tetrachloride	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Chlorobenzene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
Chloroethane	< .81	< .08	< .08	< .81	< .81	0.1	< .08	< .81
Chloroform	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Chloromethane	< .3	< .08	< .03	< .3	< .81	< .03	< .03	0.31
Dibromochloromethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Dibromromethane	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Dichlorodifluoromethane	< .4	< .04	< .04	< .4	< .4	< .04	< .04	< .4
Ethylbenzene	< .1	0.02	0.27	0.12	< .1	0.03	1.7	< .1
Hexachlorobutadiene	< .4	< .04	< .04	< .4	< .4	< .04	< .04	< .4
Isopropylbenzene	< .1	< .01	0.01	< .1	< .1	< .01	0.17	< .1
Methylene Chloride	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Naphthalene	< .3	0.05	< .03	< .3	< .3	< .03	< .03	< .3
Styrene	< .4	< .04	0.09	< .4	< .4	< .04	0.16	< .4
Tetrachloroethene	< .2	< .02	0.08	< .2	< .2	< .02	0.18	< .2
Toluene	< 1.11	0.16	1.1	< 1.11	< 1.11	0.51	2.3 J	< 1.11
Total Xylenes	< .4	0.09	0.51	< .21	< .4	0.18	3.4	< .4
Trichloroethene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Trichlorofluoromethane	< .5	< .05	< .05	< .5	< .51	< .05	< .05	1.3
Vinyl Chloride	< .71	0.2	< .07	< .71	< .71	< .07	< .07	< .71
cis-1,2-dichloroethene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
m & p-Xylenes	< .4	0.07	0.3	< .2	< .4	0.14	1.6	< .4
n-Butylbenzene	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
n-Propylbenzene	< .1	0.02	0.01	< .1	< .1	0.01	0.12	< .1
o-Xylene	< .1	0.02	0.21	0.21	< .1	0.04	1.8	< .1
p-Isopropyltoluene	< .2	< .02	< .02	< .2	< .2	< .02	< .02	< .2
s-Butylbenzene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
t-Butylbenzene	< .1	< .01	< .01	< .1	< .1	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .5	< .05	< .05	< .5	< .51	< .05	< .05	< .5
trans-1,3-dichloropropene	< .3	< .03	< .03	< .3	< .3	< .03	< .03	< .3
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane			210	1360				

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location:	SG168194	SG168194	SG168294	SG168394	SG168494	SG168594	SG168594	SG168694
Sample Identification Number:	SGG1681JE	SGG1681JE*R	SGG1682JE	SGG1683JE	SGG1684JE	SGG1685JE	SGG1911JE	SGG1686JE
Date Sampled:	9/19/94	12/23/94	9/19/94	9/19/94	9/19/94	9/19/94	9/19/94	9/19/94
Test Group:GC/MS Units: µg/L							DUP	
1,1,1,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .51	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.24	< .1	0.02	< .01	0.02	0.03	0.03	0.37
1,2-Dibromo-3-chloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.22	< .1	0.02	< .01	< .01	< .01	< .01	0.29
1,3-Dichlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .4	0.08	0.14	0.12	0.2	0.19	0.19
2-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .3	< .03	< .03	< .03	< .03	0.36	< .03
Benzene	0.5	< .3	0.35	0.58	0.3	0.85	0.4	0.23
Bromobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .3	0.04	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .81	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .81	< .03	0.03	< .03	< .03	< .03	< .03
Dibromochloromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	1.6	< .1	0.44	0.34	0.05	0.17	0.11	0.8
Hexachlorobutadiene	< .04	< .4	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.14	< .1	0.02	< .01	< .01	0.02	0.01	0.1
Methylene Chloride	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	0.08	< .4	0.05	0.09	< .04	0.05	< .04	0.11
Tetrachloroethene	0.02	< .2	< .02	0.02	0.15	0.24	0.27	0.02
Toluene	2	< 1.11	1.4	1.5	0.14	0.81	0.4	0.67
Total Xylenes	4.1 J	< .4	0.91	0.45	< .03	0.26	0.17	2.8
Trichloroethene	< .03	< .3	< .03	0.03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .51	< .05	< .05	< .05	0.06	5.5 J	< .05
Vinyl Chloride	< .07	< .71	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	2.1 J	< .4	0.56	0.26	0.03	0.12	0.07	1.4
n-Butylbenzene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.13	< .1	0.02	< .01	0.01	0.02	0.02	0.14
o-Xylene	2	< .1	0.35	0.19	< .01	0.14	0.1	1.4
p-Isopropyltoluene	< .02	< .2	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	0.01
t-Butylbenzene	< .01	< .1	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .51	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .3	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane			20	30		30	30	

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location:	SG168794	SG168894	SG168994	SG169094	SG169194	SG169294	SG169394	SG169394	SG169494
mple Identification Number:	SGG1687JE	SGG1688JE	SGG1689JE	SGG1690JE	SGG1691JE	SGG1692JE	SGG1693JE	SGG1912JE	SGG1694JE
te Sampled:	9/19/94	9/21/94	9/21/94	9/21/94	9/19/94	9/19/94	9/19/94	9/19/94	9/19/94
Test Group:GC/MS Units: µg/L								EB	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.03	0.02	0.02	0.02	0.15	0.07	0.02	0.01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< .01	< .01	< .01	0.11	0.06	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.08	0.06	0.09	0.17	0.04	0.16	0.25	< .04	0.07
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	0.4	0.41	< .03	< .03
Benzene	0.05	0.42	0.46	0.43	0.34	0.27	0.28	< .03	0.28
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
momethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
arbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	0.11	0.04	< .03	< .03	< .03	< .03	0.03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	0.05	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.22	0.38	0.51	0.26	0.22	0.2	0.13	< .01	0.09
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.02	0.01	0.02	< .01	0.04	0.02	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	0.06	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	0.04	0.08	0.04	< .04	0.15	0.05	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	0.05	0.13	< .02	< .02	< .02
Toluene	0.12	0.97	1.5	1.5	0.25	0.25	0.42	< .11	0.28
Total Xylenes	0.75	0.79	1.16	0.37	0.76	0.59	0.22	< .01	0.14
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	0.26	2.2 J	10 J	6.4 J	0.06	< .05	< .05	6.7 J
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.4	0.5	0.64	0.23	0.36	0.28	0.12	< .02	0.08
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	0.01	0.01	< .01	0.06	0.04	0.01	< .01	< .01
o-Xylene	0.35	0.29	0.52	0.14	0.4	0.31	0.1	0.01	0.06
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
ns-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
st Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane			20	40	40		20		30

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location:	SG169594	SG169694	SG169794	SG169794	SG169794	SG213094	SG213094	SG213194
Sample Identification Number:	SGG1695JE	SGG1696JE	SGG1697JE	SGG1697JE*R	SGG1914JE	SGG2045JE	SGG2130JE	SGG2044JE
Date Sampled:	9/20/94	9/20/94	9/20/94	12/23/94	9/20/94	3/8/95	3/8/95	3/7/95
Test Group:GC/MS Units: µg/L					EB	DUP		EB
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .51	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	0.01	0.6	< .1	< .01	0.01	0.02	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	0.47	< .1	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
2-Butanone	0.06	0.12	0.15	< .4	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.45	1.8	< .03	0.48	< .03	0.04
Benzene	0.52	0.43	0.44	< .3	0.05	0.36	0.8	< .03
Bromobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .4	< .04	< .04	0.04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .81	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Chloromethane	0.05	0.03	< .03	< .81	< .03	< .03	0.04	0.08
Dibromochloromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Ethylbenzene	0.09	0.08	2.4 J	< .1	< .01	0.06	0.03	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .4	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	0.19	< .1	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Styrene	0.05	< .04	0.08	< .4	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .2	< .02	0.09	0.06	< .02
Toluene	0.35	0.25	2.4 J	< 1.11	< .11	0.28	0.39	< .11
Total Xylenes	0.12	0.17	6.8 J	< .4	< .02	0.06	< .02	< .04
Trichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .51	< .05	0.62	0.07	< .05
Vinyl Chloride	< .07	< .07	< .07	< .71	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
m & p-Xylenes	0.06	0.1	3.2 J	< .4	< .02	0.04	< .04	< .04
n-Butylbenzene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	< .01	0.28	< .1	< .01	< .01	< .01	< .01
o-Xylene	0.06	0.07	3.6 J	< .1	< .01	0.02	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .2	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	0.01	< .1	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .51	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	20	20						

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location:	SG213194	SG213294	SG213394	SG213494	SG213594	SG213694	SG213794	SG213894	SG213994
Sample Identification Number:	SGG2131JE	SGG2132JE	SGG2133JE	SGG2134JE	SGG2135JE	SGG2136JE	SGG2137JE	SGG2138JE	SGG2139JE
Date Sampled:	3/7/95	3/7/95	3/8/95	3/8/95	3/7/95	3/7/95	3/8/95	3/8/95	3/8/95
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	< .01	< .01	< .01	< .01	0.01	< .01	0.01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.1	< .04	< .04	0.04	< .04	< .04	< .04	0.13	0.1
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	1.2	0.04	0.71	0.37	0.41	0.7	0.19	0.24	0.14
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	0.1	< .03	< .03	< .03
Carbon Disulfide	0.12	< .04	0.07	0.11	< .04	0.05	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.35	< .03	0.07	0.03	< .03	< .03	< .03	0.07	0.2
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.15	< .01	0.09	0.02	0.05	0.08	0.05	0.04	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	0.06	< .04	< .04	< .04	< .04	0.11	< .04	< .04	< .04
Tetrachloroethene	0.05	4	0.52	< .02	< .02	< .02	< .02	0.08	< .02
Toluene	0.74	< .11	0.45	0.18	0.26	0.38	0.21	0.2	0.37
Total Xylenes	0.18	< .04	0.1	< .04	0.06	0.09	0.09	0.09	0.11
Trichloroethene	0.1	0.68	0.07	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	0.1	0.09	< .05	< .05	< .05	0.07	< .05	0.3	0.07
Vinyl Chloride	< .07	0.67	< .07	< .07	0.35	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.07	0.83	< .03	< .03	0.11	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.12	< .04	0.07	< .04	0.04	0.06	0.07	0.06	0.08
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.03	< .01	0.01	< .01	0.01	0.01	< .01	< .01	< .01
o-Xylene	0.06	< .01	0.03	< .01	0.02	0.03	0.02	0.03	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SG214094 SGG2046JE 3/8/95	SG214094 SGG2140JE 3/8/95	SG216794 SGG2167JE 3/23/95	SG216794 SGG2198JE 3/23/95	SG216894 SGG2168JE* 3/23/95	SG216894 SGG2197JE* 3/23/95
Test Group:GC/MS Units: µg/L	DUP			DUP		DUP
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .2
1,1,1-Trichloroethane	< .03	< .03	0.09	0.13	< .3	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .2	< .2
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .3	< .3
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .3	< .3
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .5
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .3	< .3
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .2	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .4	< .4
1,2,4-Trimethylbenzene	0.03	0.03	0.08	0.03	< .1	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .3	< .3
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .3	< .3
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .2
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .2	< .2
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3
1,3,5-Trimethylbenzene	0.01	0.01	0.02	< .01	< .1	< .1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .1	< .1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .2	< .2
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .3	< .3
2-Butanone	0.05	0.07	0.25	0.2	< .4	< .4
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .1	< .1
Acetone	< .03	< .03	1.5	< .03	5.3	1.7
Benzene	0.62	1.2	1.2	0.94	1	0.8
Bromobenzene	< .01	< .01	< .01	< .01	< .1	< .1
Bromochloromethane	< .03	< .03	< .03	< .03	< .3	< .3
Bromodichloromethane	< .03	< .03	< .03	< .03	< .3	< .3
Bromoform	< .02	< .02	< .02	< .02	< .2	< .2
Bromomethane	< .03	< .03	< .03	< .03	< .3	< .3
Carbon Disulfide	< .04	0.04	0.07	0.06	< .4	< .4
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .3	< .3
Chlorobenzene	< .01	< .01	< .01	< .01	< .1	< .1
Chloroethane	< .08	< .08	< .08	< .08	< .81	< .81
Chloroform	< .03	< .03	< .03	< .03	< .3	< .3
Chloromethane	< .03	0.07	< .03	0.07	0.32	< .3
Dibromochloromethane	< .03	< .03	< .03	< .03	< .3	< .3
Dibromromethane	< .03	< .03	< .03	< .03	< .3	< .3
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .4	< .4
Ethylbenzene	0.08	0.07	0.1	0.06	0.39	0.37
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .4	< .4
Isopropylbenzene	< .01	< .01	0.01	< .01	< .1	< .1
Methylene Chloride	< .03	< .03	< .03	< .03	< .3	< .3
Naphthalene	< .03	< .03	0.04	< .03	< .3	< .3
Styrene	< .04	< .04	< .04	< .04	< .4	< .4
Tetrachloroethene	< .02	< .02	0.03	0.04	< .2	< .2
Toluene	0.59	0.78	0.86	0.59	14	14
Total Xylenes	0.11	0.16	0.31	0.17	1.2	1.17
Trichloroethene	< .03	< .03	< .03	< .03	< .3	< .3
Trichlorofluoromethane	0.09	0.06	1.4	1.3	67 J	11
Vinyl Chloride	< .07	< .07	< .07	< .07	< .71	< .71
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .3	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3
m & p-Xylenes	0.07	0.12	0.16	0.08	0.87	0.86
n-Butylbenzene	< .02	< .02	< .02	< .02	< .2	< .2
n-Propylbenzene	0.01	0.01	0.03	0.01	< .1	< .1
o-Xylene	0.04	0.04	0.15	0.09	0.33	0.31
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .2	< .2
s-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .1	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .5	< .5
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .3	< .3
Test Group:Gastech Units: ppm						
Hydrogen Sulfide						
Methane						

TABLE E-1
Soil-Gas Summary of Results
IHSS 148

Sample Location:	SG170794	SG170794	SG171194	SG171294	SG171394	SG171494	SG171594	SG171694	SG171794
Sample Identification Number:	SGG1707JE	SGG2015JE	SGG1711JE	SGG1712JE	SGG1713JE	SGG1714JE	SGG1715JE	SGG1716JE	SGG17[illegible]
Date Sampled:	2/5/95	2/5/95	2/5/95	2/5/95	2/5/95	2/5/95	2/5/95	2/5/95	2/5[illegible]
Test Group:GC/MS Units: µg/L		EB							
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.02	0.32	0.28	0.38	0.33	0.1	0.02	0.13
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	0.13	0.11	0.14	0.07	0.04	< .01	0.03
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.14	0.12	0.13	< .04	0.16	0.06	0.04	0.1	0.21
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.37	0.17	< .03	< .03	0.41	< .03	0.28	0.17	0.51
Benzene	0.2	0.05	1.2	0.25	0.06	0.19	0.04	0.15	0.41
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Carbon Disulfide	< .04	< .04	0.21	< .04	< .04	0.04	< .04	< .04	< .[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.04
Chloromethane	< .03	0.04	0.2	0.03	< .03	0.04	0.04	0.03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.03	< .01	0.13	0.25	0.03	0.03	0.03	0.03	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	0.02	0.03	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	0.03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.11	< .11	0.72	0.19	< .11	0.13	< .11	< .11	0.25
Total Xylenes	< .04	< .04	0.45	1.38	0.2	0.15	0.2	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	2	0.1	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	0.32	1.08	0.14	0.1	0.14	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	0.03	< .02	< .02	< .02
n-Propylbenzene	0.12	< .01	0.11	0.11	0.14	0.03	0.03	< .01	< .01
o-Xylene	0.02	< .01	0.13	0.3	0.06	0.05	0.06	0.02	0.03
p-Isopropyltoluene	0.08	< .02	0.11	0.05	0.1	0.03	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .0[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 148

Sample Location:	SG172194	SG172694	SG172894	SG172994	SG172994	SG173094	SG173094	SG173494
Sample Identification Number:	SGG1721JE	SGG1726JER	SGG1728JER	SGG1729JE	SGG2017JE	SGG1730JE	SGG2014JE	SGG1734JE
Date Sampled:	2/4/95	2/22/95	2/22/95	2/5/95	2/5/95	2/4/95	2/4/95	2/4/95
Test Group:GC/MS Units: µg/L					DUP		EB	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.37	.07 B	< .01	< .01	< .01	< .01	0.03
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	0.12	< .02	< .01	< .01	< .01	< .01	0.01
1,3-Dichlorobenzene	< .01	< .01	< .02	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.1	< .04	0.25	0.17	< .04	< .04	0.11
2-Chlorotoluene	< .01	< .01	< .02	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .02	< .01	< .01	< .01	< .01	< .01
Acetone	0.03	0.37	< .03	< .03	< .03	< .03	< .03	< .03
Benzene	< .03	0.12	0.33	1	0.48	0.16	< .03	0.52
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	0.04	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	0.15	0.07	< .04	< .04	0.1
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .02	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	0.07	0.09	0.07	< .03	< .03	< .03
Chloromethane	< .03	0.24	< .03	0.14	0.07	0.04	< .03	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	0.05	< .04	< .04	0.05	< .04	< .04	< .04
Ethylbenzene	< .01	0.25	.03 B	0.1	0.08	< .01	< .01	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	0.03	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .12	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	< .11	0.57	0.27	0.58	0.32	< .11	< .11	0.39
Total Xylenes	< .04	0.83	< .1	< .04	< .04	< .04	< .04	0.11
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	2	0.73	< .05	6.8 J	0.06	< .05	1.9
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	0.6	0.1	< 2	< 2	< 2	< 2	0.08
n-Butylbenzene	< .02	0.03	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	0.12	< .02	< .01	0.02	< .01	< .01	< .01
o-Xylene	0.01	0.23	< .02	0.03	0.04	< .01	< .01	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	0.01	< .02	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .02	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG173594	SG173694	SG173694	SG173894	SG173994	SG173994	SG174194	SG174394
Sample Identification Number:	SGG1735JER	SGG1736JER	SGG2199JE	SGG1738JE	SGG1739JE	SGG2016JE	SGG1741JE	SGG1743JE
Date Sampled:	2/4/95	3/28/95	3/28/95	2/5/95	2/5/95	2/5/95	2/4/95	2/4/95
Test Group:GC/MS Units: µg/L			EB			DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.05	< .01	< .01	0.01	0.01	0.01	0.01	0.1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.02	< .01	< .01	< .01	< .01	< .01	< .01	0.04
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.4	0.11	< .04	< .04	0.05	< .04	0.11	0.07
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	0.85	0.32	< .03	0.13	0.06	< .03	0.36
Benzene	0.57	0.63	0.09	0.15	< .03	< .03	0.29	0.19
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.12	0.14	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.04	< .03	0.06	0.4	< .03	0.11	< .03	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	0.05	< .04	< .04	< .04	< .04	< .04	0.15	< .04
Ethylbenzene	0.12	0.06	0.03	0.03	< .01	< .01	0.06	0.07
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	0.03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	0.15	< .02
Toluene	0.77	0.46	0.63	< .11	< .11	< .11	0.2	0.15
Total Xylenes	0.45	0.09	0.08	< .04	< .04	< .04	0.15	0.24
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	2.6	0.25	< .05	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.32	0.06	0.06	< 2	< 2	< 2	0.1	0.18
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	0.01	< .01	< .01	< .01	< .01	0.01	0.03
o-Xylene	0.13	0.03	0.02	0.01	< .01	< .01	0.05	0.06
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 148

Sample Location:	SG174494	SG174594	SG174594	SG174694	SG174694	SG174794	SG174894	SG174994	SG175294
Sample Identification Number:	SGG1744JE	SGG1745JE	SGG2013JE	SGG1746JE*	SGG2011JE*	SGG1747JE	SGG1748JE	SGG1749JE	SGG1752JE
Date Sampled:	2/1/95	2/3/95	2/3/95	2/1/95	2/1/95	2/3/95	2/5/95	2/4/95	2/4/95
Test Group:GC/MS Units: µg/L			EB		DUP				
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .5	< .5	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .4	< .4	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.04	0.01	< .01	< .1	< .1	0.01	< .01	0.05	0.07
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.01	< .01	< .01	< .1	< .1	< .01	< .01	0.02	0.03
1,3-Dichlorobenzene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
2-Butanone	0.31	0.07	< .04	< .4	< .4	0.05	0.27	0.23	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.05	1.2	2.9	< .03	0.52	0.49	0.12
Benzene	1.4	0.14	< .03	0.47	0.58	0.14	0.39	0.06	0.04
Bromobenzene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Carbon Disulfide	0.11	< .04	< .04	< .4	< .4	< .04	0.06	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .81	< .81	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Chloromethane	0.05	< .03	< .03	0.34	< .3	0.06	0.11	0.23	< .03
Dibromochloromethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	0.1	< .04	< .4	< .4	0.06	< .04	0.44	< .04
Ethylbenzene	0.11	0.03	< .01	7.4	8.1	0.09	0.06	0.05	0.09
Hexachlorobutadiene	< .04	< .04	< .04	< .4	< .4	< .04	< .04	< .04	< .04
Isopropylbenzene	0.01	< .01	< .01	< .1	0.11	< .01	< .01	< .01	< .01
Methylene Chloride	0.07	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .4	< .4	< .04	< .04	< .04	< .04
Tetrachloroethene	0.06	< .02	< .02	< .2	< .2	< .02	< .02	1.5	< .02
Toluene	0.78	0.19	< .11	2.2	2.2	0.23	0.26	< .11	< .11
Total Xylenes	0.16	< .04	< .04	43	48	0.35	< .04	0.26	0.46
Trichloroethene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	1.1	< .05	1.5	12	0.95	< .05	1.6	< .05
Vinyl Chloride	< .07	< .07	< .07	< .71	< .71	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
m & p-Xylenes	0.1	< 2	< 2	32	36	0.26	< 2	0.2	0.36
n-Butylbenzene	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
n-Propylbenzene	0.02	< .01	< .01	< .1	< .1	< .01	< .01	0.02	0.02
o-Xylene	0.06	0.02	< .01	11	12	0.09	0.02	0.06	0.1
p-Isopropyltoluene	< .02	< .02	< .02	< .2	< .2	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .1	< .1	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .5	< .5	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .3	< .3	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 148

Sample Location:	SG175394	SG175594	SG175594	SG175694	SG175794	SG175994	SG176094	SG215794
Sample Identification Number:	SGG1753JE	SGG1755JE	SGG2009JE	SGG1756JE	SGG1757JE	SGG1759JE	SGG1760JE	SGG2157JE
Date Sampled:	1/29/95	1/29/95	1/29/95	1/29/95	1/29/95	2/4/95	2/4/95	3/15/95
Test Group:GC/MS Units: µg/L			EB					
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	< .01	< .01	< .01	< .01	0.03	0.03	0.04
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	0.01	< .01	0.01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.07	0.04	< .04	0.05	< .04	< .04	0.05	0.15
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.03	< .03	< .03	0.76	< .03	< .03
Benzene	0.48	0.33	< .03	0.43	0.29	0.66	0.25	0.24
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.09	0.16	< .04	0.09	0.12	0.09	0.06	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	0.04	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	0.03	0.27	0.04	0.05	0.05	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	0.09	< .04	< .04
Ethylbenzene	0.05	0.02	< .01	< .01	0.05	0.09	0.04	0.05
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.07
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Toluene	0.28	0.21	< .11	0.22	0.22	0.46	0.19	0.23
Total Xylenes	< .04	< .04	< .04	< .04	< .04	0.29	0.13	0.09
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	0.38	< .05	< .05	< .05	< .05	7.9 J	0.58	1.9
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	0.24	0.1	0.06
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.02
o-Xylene	0.03	< .01	< .01	0.02	0.03	0.05	0.03	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 157.1

Sample Location:	SG176894	SG176994	SG176994	SG177094	SG177194	SG177294	SG177494	SG177594	SG177694	SG178394
Sample Identification Number:	SGG1768JE	SGG1769JE	SGG2006JE	SGG1770JE	SGG1771JE	SGG1772JE	SGG1774JE	SGG1775JE	SGG1776JE	SGG1[illegible]
Date Sampled:	1/27/95	1/27/95	1/27/95	1/29/95	1/28/95	1/28/95	1/27/95	1/27/95	1/27/95	1/2[illegible]
Test Group:GC/MS Units: µg/L			EB							
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	0.01	< .01	0.01	0.07	0.07	< .01	0.01	< .01	0.03
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	0.02	0.02	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	0.04	< .04	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.08	0.14	< .03	< .03	< .03	0.18	0.13	< .03	0.05	< .03
Benzene	0.06	0.03	0.11	0.42	0.63	< .03	0.03	0.09	< .03	0.5
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.03
Carbon Disulfide	< .04	< .04	< .04	0.15	0.1	< .04	< .04	< .04	< .04	0.07
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< [illegible]
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< [illegible]
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< [illegible]
Chloroform	0.73	0.3	< .03	< .03	< .03	< .03	0.22	0.03	< .03	< .03
Chloromethane	0.03	< .03	0.06	< .03	0.06	< .03	0.04	< .03	< .03	0.06
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.02	0.02	0.01	0.03	0.06	0.01	0.01	0.01	< .01	< .01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	0.04	< .03	< .03	< .03	< .03	0.04	< .03	0.04	< .03	< .03
Naphthalene	< .03	0.07	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.1	0.09	< .02	0.2	1.5	2.1	0.13	0.23	< .02	< .02
Toluene	< .11	0.12	0.48	0.22	0.4	< .11	< .11	< .11	< .11	0.26
Total Xylenes	< .04	< .04	< .04	< .04	0.14	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	0.36	0.1	4.7 J	< .05	0.26	0.35	2.7	0.34	0.44	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	0.1	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	0.02	0.02	< .01	< .01	< .01	< .01
o-Xylene	0.02	0.02	< .01	0.02	0.04	0.03	0.02	0.01	< .01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm										
Hydrogen Sulfide										
Methane										

TABLE E-1
Soil-Gas Summary of Results
IHSS 157.1

Sample Location:	SG178594	SG178894	SG179094	SG179094	SG179194	SG179394	SG179694	SG179794	SG180394	SG180494
Sample Identification Number:	SGG1785JE	SGG1788JE	SGG1790JE	SGG2008JE	SGG1791JE	SGG1793JE	SGG1796JE	SGG1797JE	SGG1803JE	SGG1804JE
Date Sampled:	1/28/95	1/28/95	1/29/95	1/29/95	1/28/95	1/28/95	1/27/95	1/28/95	1/28/95	1/28/95
Test Group:GC/MS Units: µg/L				DUP						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	0.02	0.01	0.02	0.02	0.01	0.01	< .01	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	0.04	< .04	< .04	< .04	< .04	< .04	0.06
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.27	< .03	< .03	0.31	0.44	< .03	< .03	< .03	< .03	< .03
Benzene	0.18	0.09	0.18	0.12	0.37	0.13	0.15	0.28	< .03	0.45
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	0.04	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	0.11	0.07	0.06	< .04	0.07	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	0.29	0.04	< .03	< .03	< .03	0.13	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	0.21	0.08	0.09	< .03	0.07	0.19	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.02	0.17	0.02	0.01	0.04	0.01	0.04	0.02	< .01	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	0.03	0.04	0.04	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.05	1.2	< .02	< .02	< .02	0.39	0.32	< .02	0.14	0.04
Toluene	0.66	0.4	< .11	< .11	0.24	< .11	0.17	0.18	< .11	0.19
Total Xylenes	< .04	0.65	< .04	< .04	< .04	< .04	0.11	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	0.31	0.4	< .05	< .05	0.06	0.3	< .05	< .05	0.24	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	0.18	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	0.5	< 2	< 2	< 2	< 2	0.08	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.02	0.15	0.01	< .01	0.02	0.01	0.03	< .01	< .01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm										
Hydrogen Sulfide										
Methane										

TABLE E-1
Soil-Gas Summary of Results
IHSS 157.1

Sample Location:	SG180494	SG180894	SG181994	SG182494	SG182594	SG182594	SG182794	SG182894
Sample Identification Number:	SGG2007JE	SGG1808JE	SGG1819JE	SGG1824JE	SGG1825JE	SGG2005JE	SGG1827JE	SGG1828JE
Date Sampled:	1/28/95	1/27/95	1/27/95	1/27/95	1/27/95	1/27/95	1/29/95	1/27/95
Test Group:GC/MS Units: µg/L	DUP					DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	0.21	< .03	< .03	< .03	0.05	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	0.06	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .03	< .03	< .03	< .03	0.13	< .03
Benzene	0.03	0.09	0.09	0.59	0.36	0.21	0.07	0.3
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	0.06	0.14	0.1	0.07	0.04	0.14
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.22	0.04	0.08	0.03	0.28	0.05	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.01	0.02	0.05	0.03	0.05	0.01	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	0.03	0.09	0.03	< .03	< .03	< .03	0.07
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	0.07	< .02	0.02	< .02	< .02	< .02	0.03
Toluene	< .11	< .11	< .11	0.37	0.31	0.25	< .11	0.17
Total Xylenes	< .04	< .04	< .04	< .04	< .04	0.1	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	0.37	0.21	< .05	0.32	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	0.08	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.01	0.02	0.03	0.01	0.02	< .01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-1
Soil-Gas Summary of Results
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Sample Location:	SG183194	SG183394	SG183694	SG183994	SG184094	SG184294	SG184594	SG184894	SG184994
Sample Identification Number:	SGG1831JE	SGG1833JE	SGG1836JE	SGG1839JE	SGG1840JE	SGG1842JER	SGG1845JE	SGG1848JE	SGG1[illegible]
Date Sampled:	1/16/95	1/17/95	1/19/95	1/16/95	1/16/95	2/16/95	1/30/95	1/17/95	1/17[illegible]
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	0.6	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	< .01	0.01	0.01	< .01	0.06	0.01	< .01	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.01	< .01	< .01	< .01	< .01	0.02	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	0.04	0.15	0.13	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.16	0.09	< .03	0.23	< .03	< .03	0.43	< .03	< .03
Benzene	< .03	0.03	0.04	0.04	0.24	0.35	0.24	0.18	0.21
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .0[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	0.84	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.03	< .03	0.09	< .03	< .03	< .03	0.05	0.07
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	0.27	< .04	< .04	< .04
Ethylbenzene	0.01	0.01	0.02	0.02	0.01	0.12	0.02	0.02	0.02
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	0.01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	0.07	0.38	< .02	< .02	< .02
Toluene	< .11	< .11	< .11	< .11	0.16	0.41	0.14	< .11	< .11
Total Xylenes	< .04	< .04	< .04	< .04	< .04	0.37	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	0.04	0.37	< .03	< .03	< .03
Trichlorofluoromethane	< .05	0.06	0.08	< .05	0.29	0.07	< .05	0.34	0.09
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	0.34	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	0.24	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	0.03	< .01	< .01	< .01
o-Xylene	0.01	< .01	0.04	0.01	< .01	0.13	0.02	0.01	0.01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 186

Sample Location:	SG184994	SG185194	SG185794	SG185894	SG185994	SG185994	SG186094	SG186094	SG186394
Sample Identification Number:	SGG1990JE	SGG1851JE	SGG1857JE	SGG1858JE	SGG1859JE	SGG1989JE	SGG1860JE	SGG1991JE	SGG1863JE
Date Sampled:	1/17/95	1/30/95	1/17/95	1/17/95	1/17/95	1/17/95	1/17/95	1/17/95	1/19/95
Test Group:GC/MS Units: µg/L	DUP					EB		EB	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.05	0.01	< .01	< .01	0.01	< .01	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.26	< .04	< .04	< .04	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.12	0.72	< .03	< .03	0.13	< .03	< .03	< .03	< .03
Benzene	0.07	0.09	0.16	0.18	0.16	< .03	0.06	< .03	0.04
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.27	0.03	0.04	< .03	< .03	0.05	< .03	0.04
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	0.04	< .04	< .04
Ethylbenzene	0.01	0.03	0.02	0.01	0.03	< .01	0.01	0.01	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	0.06	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	< .02	< .02	0.02	< .02	0.95
Toluene	< .11	0.13	< .11	< .11	0.12	< .11	< .11	< .11	< .11
Total Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .02	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	0.06	< .03	0.03
Trichlorofluoromethane	0.34	< .05	< .05	< .05	< .05	< .05	0.27	< .05	0.09
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0.02	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	0.01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.01	0.03	0.01	< .01	0.01	0.01	0.01	< .01	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide	NA					NA	NA	NA	
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 186

Sample Location:	SG186394	SG186494	SG186594	SG186694	SG186794	SG186894	SG186994	SG187094
Sample Identification Number:	SGG1995JE	SGG1864JE	SGG1865JE*	SGG1866JE**	SGG1867JE	SGG1868JE	SGG1869JE	SGG1870JE
Date Sampled:	1/19/95	1/30/95	1/13/95	1/13/95	1/13/95	1/13/95	1/16/95	1/16/95
Test Group:GC/MS Units: µg/L	EB							
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	0.03	< .3	< 2.86	0.03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .5	< 4.76	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< 3.81	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.03	< .1	< .95	0.01	0.01	0.02	0.01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .95	< .01	< .01	0.01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.05	< .4	< 3.81	< .04	< .04	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	< .3	< 2.86	0.04	0.03	0.07	0.11
Benzene	< .03	0.44	0.38	< 2.86	< .03	< .03	0.03	0.07
Bromobenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	0.11	< .4	< 3.81	< .04	< .04	< .04	< .04
Carbon Tetrachloride	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .81	< 7.62	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .3	2.9	0.39	0.04	< .03	0.03
Dibromochloromethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< 3.81	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.07	< .1	< .95	0.01	< .01	0.01	0.01
Hexachlorobutadiene	< .04	< .04	< .4	< 3.81	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .4	< 3.81	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	0.02	< 1.9	0.24	0.27	0.23	0.2
Toluene	< .11	0.34	< 1.11	< 10.48	< .11	< .11	< .11	< .11
Total Xylenes	< .04	< .04	< .4	< 3.81	< .04	< .04	< .04	< .04
Trichloroethene	< .03	0.16	11	42	2.5	1.5	0.14	0.13
Trichlorofluoromethane	< .05	0.7	< .5	< 4.76	< .05	1	< .05	< .05
Vinyl Chloride	< .07	< .07	< .71	< 6.67	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .3	< 2.86	0.04	0.04	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.02	< .1	< .95	0.01	< .01	0.01	0.01
p-Isopropyltoluene	< .02	< .02	< .2	< 1.9	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .1	< .95	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .5	< 4.76	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< 2.86	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide			NA	NA	NA	NA	NA	NA
Methane								

TABLE E-1
Soil-Gas Summary of Results
IHSS 186

Sample Location:	SG187294	SG187494	SG187594	SG187694	SG187794	SG187894	SG188294	SG188394	SG188394
Sample Identification Number:	SGG1872JE	SGG1874JE	SGG1875JE	SGG1876JE	SGG1877JE	SGG1878JE	SGG1882JE*	SGG1883JE	SGG1996JE
Date Sampled:	1/18/95	1/18/95	1/18/95	1/18/95	1/18/95	1/30/95	1/20/95	1/20/95	1/20/95
Test Group:GC/MS Units: µg/L									DUP
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	0.06	0.6	< .3	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	0.04	< .5	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	0.01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Acetone	< .03	0.16	< .03	< .03	< .03	0.04	< .3	< .03	< .03
Benzene	0.63	0.13	0.06	0.27	0.29	< .03	< .3	1.3	0.41
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	0.05	< .03	< .3	< .03	< .03
Carbon Disulfide	0.07	< .04	< .04	< .04	< .04	< .04	< .4	0.17	0.05
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .81	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Chloromethane	0.04	< .03	0.03	< .03	0.13	< .03	< .3	< .03	0.05
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Ethylbenzene	0.03	0.02	< .01	0.03	0.01	< .01	< .1	0.02	0.03
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Tetrachloroethene	0.16	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
Toluene	0.23	0.14	< .11	0.12	0.11	< .11	< 1.11	0.55	0.26
Total Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .4	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Trichlorofluoromethane	< .05	0.06	< .05	0.23	< .05	< .05	2	0.94	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .71	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	0.06	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
o-Xylene	< .01	0.01	< .01	0.01	< .01	< .01	< .1	0.02	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .2	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .1	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .5	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .3	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-1
Soil-Gas Summary of Results
IHSS 186

Sample Location:	SG188494	SG188594	SG188694	SG188794	SG188894	SG188994	SG189194	SG189194	SG189294
Sample Identification Number:	SGG1884JE	SGG1885JE	SGG1886JE	SGG1887JER	SGG1888JE	SGG1889JE	SGG1891JE	SGG1994JE	SGG1[illegible]
Date Sampled:	1/20/95	1/20/95	1/18/95	1/30/95	1/18/95	1/18/95	1/18/95	1/18/95	1/1[illegible]
								DUP	
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	NA	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	NA	< .04	< .04
1,2,4-Trimethylbenzene	0.03	< .01	< .01	0.02	< .01	0.01	NA	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
2-Butanone	0.07	< .04	< .04	0.04	< .04	< .04	NA	0.07	0.07
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
Acetone	< .03	< .03	< .03	0.15	< .03	< .03	NA	< .03	< .03
Benzene	0.53	0.22	0.49	< .03	0.11	0.5	NA	1.4	0.46
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< [illegible]
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	NA	< .04	< [illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Chloromethane	0.06	0.04	0.12	0.05	0.09	0.03	0.09	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.05	< .01	0.01	< .01	0.02	0.06	NA	0.13	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	NA	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	0.01	NA	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Naphthalene	0.05	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	NA	< .04	< .04
Tetrachloroethene	0.1	0.03	< .02	< .02	< .02	< .02	NA	0.2	0.12
Toluene	0.5	0.12	0.17	< .11	< .11	0.24	NA	0.63	0.21
Total Xylenes	0.11	< .04	< .04	< .04	< .04	< .04	NA	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	0.06	< .03	NA	< .03	< .03
Trichlorofluoromethane	0.3	< .05	< .05	< .05	< .05	< .05	< .05	0.55	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	0.06	< .03	NA	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .03
m & p-Xylenes	0.08	< 2	< 2	< 2	< 2	< 2	NA	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	0.01	NA	< .01	< .01
o-Xylene	0.03	< .01	< .01	< .01	0.02	0.02	NA	0.02	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	NA	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	NA	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	NA	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	NA	< .03	< .0[illegible]
Test Group:Gastech Units: ppm									
Hydrogen Sulfide							NA		
Methane							NA		

TABLE E-1
Soil-Gas Summary of Results
IHSS 186

Sample Location:	SG189394	SG189494	SG189594	SG189594	SG189694	SG189794	SG189894	SG189894	SG189994
Sample Identification Number:	SGQ1893JE	SGQ1894JE	SGQ1895JE	SGQ1986JE	SGQ1896JE	SGQ1897JE	SGQ1898JE	SGQ1985JE	SGQ1899JE
Date Sampled:	1/13/95	1/13/95	1/13/95	1/13/95	1/13/95	1/13/95	1/13/95	1/13/95	1/30/95
				DUP				EB	
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	0.06	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	< .04	0.05	< .04	0.09
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .03	0.06	0.03	< .03	0.06	0.17	< .03	0.2
Benzene	0.24	< .03	< .03	0.03	0.05	< .03	0.11	< .03	0.3
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.05
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	0.04	< .03	< .03	< .03	0.03	< .03	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.02	< .01	< .01	< .01	< .01	< .01	0.01	< .01	0.04
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .02	< .02	0.04	0.06	< .02	< .02	0.09
Toluene	0.21	< .11	< .11	< .11	< .11	< .11	< .11	< .11	0.25
Total Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	1.4	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	0.26	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.03
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	0.02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide				NA					
Methane									

APPENDIX E-2

Rejected Data

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG120194	SG120194	SG120294	SG120394	SG120994	SG121094	SG121094	SG121194	SG121294
Sample Identification Number:	SGG1201JE	SGG1950JE	SGG1202JE	SGG1203JE	SGG1209JE	SGG1210JE	SGG1951JE	SGG1211JE	SGG1212JE
Date Sampled:	11/21/94	11/21/94	11/21/94	11/21/94	11/21/94	11/21/94	11/21/94	11/18/94	11/1[illegible]
Test Group:GC/MS Units: µg/L		EB					DUP		
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	0.07	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	< .01	0.01	< .01	< .01	0.01	0.01	0.01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.16	< .04
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.25	< .03	< .03	0.28	< .03	< .03	0.19	0.61	0.17
Benzene	0.1	< .03	0.19	0.23	0.06	0.1	0.05	0.18	< .03
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.05	< .04	< .04	0.1	< .04	0.08	0.05	< .04	< .[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .[illegible]
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .03	< .03	< .03	0.04	< .03	< .03
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.02	< .01	0.02	< .01	< .01	0.01	< .01	0.03	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	0.04	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.07	< .02	0.06	< .02	< .02	0.05	0.05	0.02	0.13
Toluene	< .11	< .11	< .11	0.12	< .11	< .11	< .11	0.12	< .11
Total Xylenes	< .04	< .04	0.06	< .04	< .04	< .04	< .04	0.09	< .04
Trichloroethene	< .03	< .03	< .03	< .03	0.05	< .03	< .03	< .03	< .03
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	< .05	< .05	0.16	0.22
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	0.04	< .04	< .04	< .04	< .04	0.06	< .04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	< .01	0.02	< .01	< .01	< .01	< .01	0.03	< .01
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG121394	SG121394	SG121494	SG121594	SG121694	SG121794	SG121894	SG121994	SG122094
Sample Identification Number:	SGG1213JE	SGG1213JE**	SGG1214JE	SGG1215JE	SGG1216JE	SGG1217JE	SGG1218JE	SGG1219JE	SGG1220JE
Date Sampled:	11/18/94	11/18/94	11/18/94	11/18/94	11/18/94	11/18/94	11/21/94	11/21/94	11/30/94
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	0.48	< .03
1,1,2,2-Tetrachloroethane	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< 4.8	< .05	< .05	< .05	< .05	< .05	0.14	< .05
1,1-dichloropropene	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< 3.8	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.01	< 1	< .01	< .01	< .01	< .01	0.01	0.01	0.01
1,2-Dibromo-3-chloropropane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.13	< 3.8	< .04	0.05	< .04	0.06	< .04	< .04	< .04
2-Chlorotoluene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	0.42	3.7	< .03	< .03	< .03	0.63	< .03	0.27	0.5
Benzene	0.13	3.3	0.06	0.12	0.42	0.27	0.33	0.05	0.18
Bromobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< 3.8	< .04	0.09	0.08	< .04	0.07	< .04	< .04
Carbon Tetrachloride	1	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< 7.6	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	0.06	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< 2.9	0.14	< .03	< .03	< .03	0.06	< .03	0.04
Dibromochloromethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< 3.8	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.03	< 1	< .01	< .01	0.05	0.04	0.02	< .01	0.01
Hexachlorobutadiene	< .04	< 3.8	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< 3.8	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	18 J	52	2.1	0.73	0.04	0.41	0.13	0.02	< .02
Toluene	< .11	< 10.5	< .11	< .11	0.24	0.17	< .11	< .11	< .11
Total Xylenes	0.07	< 3.8	< .04	< .04	< .02	0.07	< .01	< .04	< .01
Trichloroethene	2	< 2.9	0.09	0.04	< .03	< .03	0.38	2.3	< .03
Trichlorofluoromethane	< .05	98	0.35	0.12	0.57	0.38	< .05	< .05	< .05
Vinyl Chloride	< .07	< 6.7	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.04	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.05	< 3.8	< .04	< .04	< .04	0.05	< .04	< .04	< .04
n-Butylbenzene	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.02	< 1	< .01	< .01	0.02	0.02	0.01	< .01	0.01
p-Isopropyltoluene	< .02	< 1.9	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< 4.8	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< 2.9	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG122494	SG122994	SG123194	SG123294	SG123294	SG123694	SG123794	SG123794	SG123994
Sample Identification Number:	SGG1224JE	SGG1229JE	SGG1231JE	SGG1232JE	SGG1948JE	SGG1236JE	SGG1237JE	SGG1947JE	SGG1239JE
Date Sampled:	11/28/94	11/21/94	11/18/94	11/18/94	11/18/94	11/23/94	11/18/94	11/18/94	11/23/94
Test Group:GC/MS Units: µg/L					DUP			DUP	
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	< .01	0.02	< .01	0.01	0.01	0.02	< .01	< .01	< .01
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	0.06	< .04	0.05	0.06	< .04	< .04	< .04	0.3
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	0.17	0.04	< .03	< .03	< .03	< .03	0.13	1.4
Benzene	0.07	0.08	< .03	0.1	0.1	0.27	0.14	0.08	0.08
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.07	< .04	< .04	< .04	< .04	0.06	0.08	0.06	< .0[illegible]
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.[illegible]
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	0.06
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	< .01	0.02	< .01	0.02	0.02	0.05	0.02	0.02	0.01
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.03	2.26	0.22	0.13	0.27	0.03	0.31	0.42	4.4 J
Toluene	< .11	< .11	< .11	< .11	< .11	0.16	< .11	< .11	< .11
Total Xylenes	< .06	< .01	< .04	< .01	< .01	0.17	< .04	< .04	0.06
Trichloroethene	< .03	0.29	0.04	< .03	< .03	< .03	< .03	< .03	0.45
Trichlorofluoromethane	1.5	< .05	0.24	0.05	0.24	< .05	0.09	0.29	< .05
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	< .04	< .04	< .04	0.13	< .04	< .04	0.04
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	< .01	0.01	< .01	0.01	0.01	0.04	< .01	< .01	0.02
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG124294	SG124394	SG124394	SG124494	SG124594	SG124694	SG124894	SG124994	SG124994
Sample Identification Number:	SGG1242JE	SGG1243JE	SGG1956JE	SGG1244JE	SGG1245JE	SGG1246JE	SGG1248JE	SGG1249JE	SGG1249JE*
Date Sampled:	11/28/94	11/28/94	11/28/94	11/28/94	11/22/94	11/22/94	11/22/94	11/23/94	11/23/94
Test Group:GC/MS Units: µg/L			DUP						
1,1,1,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,1-Dichloroethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,1-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .5
1,1-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
1,2,4-Trimethylbenzene	< .01	< .01	< .01	< .01	0.02	< .01	< .01	0.04	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,3,5-Trimethylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	0.01	< .1
1,3-Dichlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
2-Butanone	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
2-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Acetone	< .03	< .03	< .03	0.07	< .03	< .03	0.08	< .03	< .3
Benzene	0.25	0.17	0.1	< .03	0.1	< .03	0.06	0.24	0.36
Bromobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Bromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Bromodichloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Bromoform	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
Bromomethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Carbon Disulfide	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Carbon Tetrachloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Chlorobenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Chloroethane	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .08	< .81
Chloroform	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Chloromethane	< .03	< .03	0.08	< .03	< .03	< .03	0.04	< .03	< .3
Dibromochloromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Dibromromethane	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Ethylbenzene	0.01	0.03	0.02	< .01	0.02	< .01	0.01	0.02	< .1
Hexachlorobutadiene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Isopropylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
Methylene Chloride	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Naphthalene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Styrene	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .04	< .4
Tetrachloroethene	0.03	0.03	0.02	0.04	0.16	< .02	< .02	7.5 J	13
Toluene	0.15	< .11	< .11	< .11	< .11	< .11	< .11	0.11	< 1.11
Total Xylenes	< .1	< .17	< .01	< .04	< .02	< .04	< .01	0.07	< .4
Trichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Trichlorofluoromethane	< .05	< .05	< .05	< .05	< .05	0.21	< .05	0.1	< .5
Vinyl Chloride	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .07	< .71
cis-1,2-dichloroethene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
cis-1,3-Dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
m & p-Xylenes	< .04	< .04	< .04	< .04	< .04	< .04	< .04	0.05	< .4
n-Butylbenzene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
n-Propylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
o-Xylene	< .01	0.01	0.01	< .01	0.02	< .01	0.01	0.02	< .1
p-Isopropyltoluene	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .02	< .2
s-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
t-Butylbenzene	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .05	< .5
trans-1,3-dichloropropene	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .03	< .3
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									
Methane									

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG125094	SG125094	SG125494	SG125594	SG125794	SG125894	SG125994	SG126394
Sample Identification Number:	SGG1250JE	SGG1250JE**R	SGG1254JE	SGG1255JE	SGG1257JE	SGG1258JE	SGG1259JE	SGG1263JE
Date Sampled:	11/23/94	12/2/94	11/23/94	11/23/94	11/23/94	11/23/94	11/22/94	11/28/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	0.1
1,1,2,2-Tetrachloroethane	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< 5	< .05	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< 4	< .04	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	< 1	0.02	0.02	< .01	0.02	0.01	< .01
1,2-Dibromo-3-chloropropane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
2-Butanone	< .04	< 4	< .04	< .04	0.06	< .04	< .04	< .04
2-Chlorotoluene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< 3	< .03	< .03	0.27	0.39	0.07	0.12
Benzene	0.37	< 3	0.15	0.29	0.23	0.52	< .03	0.04
Bromobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	< .04	< 4	< .04	< .04	0.06	0.14	< .04	< .04
Carbon Tetrachloride	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< 8	< .08	< .08	< .08	< .08	< .08	< .08
Chloroform	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Chloromethane	< .03	< 3	< .03	< .03	< .03	< .03	0.68	< .03
Dibromochloromethane	< .03	< 3	0.09	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< 4	< .04	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.04	< 1	0.03	0.04	0.07	0.05	< .01	< .01
Hexachlorobutadiene	< .04	< 4	< .04	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Styrene	< .04	< 4	< .04	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	70 J	16	14 J	6.2 J	3.3	2.3	0.42	0.05
Toluene	0.22	< 11	< .11	0.16	< .11	0.24	< .11	< .11
Total Xylenes	0.1	< 4	0.07	0.08	0.25	0.11	< .01	< .15
Trichloroethene	2.5	4.5	< .03	< .03	< .03	< .03	0.03	0.28
Trichlorofluoromethane	< .05	< 5	< .05	< .05	< .05	< .05	0.22	0.05
Vinyl Chloride	< .07	< 7	< .07	< .07	< .07	< .07	< .07	< .07
cis-1,2-dichloroethene	0.27	< 3	< .03	< .03	< .03	< .03	< .03	< .03
cis-1,3-Dichloropropene	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.07	< 4	0.05	0.06	0.2	0.08	< .04	< .04
n-Butylbenzene	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
o-Xylene	0.03	< 1	0.02	0.02	0.05	0.03	0.01	0.01
p-Isopropyltoluene	< .02	< 2	< .02	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< 1	< .01	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< 5	< .05	< .05	< .05	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< 3	< .03	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG126494	SG127194	SG135194	SG139194	SG139294	SG139294	SG139394	SG140994	SG141694
Sample Identification Number:	SGG1264JE	SGG1271JE	SGG1351JE*	SGG1391JE	SGG1392JE	SGG1392JE*	SGG1393JE	SGG1409JE	SGG1416JE
Date Sampled:	12/2/94	11/17/94	12/16/94	11/29/94	11/29/94	11/29/94	11/29/94	11/29/94	10/21/94
Test Group:GC/MS Units: µg/L									
1,1,1,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethane	< .03	< .03	6.2	< .03	< .03	< .3	< .03	< .03	< .03
1,1-Dichloroethene	< .05	< .05	10	< .05	< .05	< .5	< .05	1	< .05
1,1-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.02	< .01	< .1	< .01	< .01	< .1	< .01	< .01	0.02
1,2-Dibromo-3-chloropropane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,3,5-Trimethylbenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichlorobenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
2-Butanone	< .04	0.05	< .4	< .04	< .04	< .4	< .04	0.16	0.22
2-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
Acetone	< .03	< .03	0.65	< .03	6.3 J	11	< .03	< .03	< .03
Benzene	0.35	0.46	< .3	0.65	0.54	0.55	0.33	0.72	2
Bromobenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
Bromochloromethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Bromodichloromethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Bromoform	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
Bromomethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Carbon Disulfide	0.15	0.13	< .4	0.1	< .04	< .4	< .04	< .04	0.28
Carbon Tetrachloride	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Chlorobenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
Chloroethane	< .08	< .08	< .81	< .08	< .08	< .81	< .08	< .08	< .08
Chloroform	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Chloromethane	< .03	0.07	< .3	< .03	< .03	< .3	< .03	0.45	0.15
Dibromochloromethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Dibromromethane	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04	< .04
Ethylbenzene	< .01	0.04	< .1	0.07	0.28	0.37	0.02	0.07	0.12
Hexachlorobutadiene	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04	< .04
Isopropylbenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
Methylene Chloride	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Naphthalene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Styrene	< .04	< .04	< .4	< .04	< .04	< .4	< .04	< .04	< .04
Tetrachloroethene	< .02	< .02	< .2	0.03	< .02	< .2	< .02	0.39	< .02
Toluene	< .11	0.3	< 1.11	0.78	8.1 J	39	0.89	1.3	1.23
Total Xylenes	< .04	< .04	< .4	0.16	0.65	0.96	0.05	< .02	0.17
Trichloroethene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	0.19	< .03
Trichlorofluoromethane	< .05	< .05	4.3	< .05	< .05	< .5	< .05	< .05	< .05
Vinyl Chloride	< .07	< .07	83 J	< .07	< .07	< .71	< .07	< .07	15 J
cis-1,2-dichloroethene	< .03	< .03	6.9	< .03	< .03	< .3	< .03	< .03	0.04
cis-1,3-Dichloropropene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
m & p-Xylenes	< .04	< .04	< .4	0.11	0.54	0.79	0.04	0.08	0.15
n-Butylbenzene	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
n-Propylbenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	0.01
o-Xylene	< .01	< .01	< .1	0.05	0.11	0.17	0.01	0.02	0.07
p-Isopropyltoluene	< .02	< .02	< .2	< .02	< .02	< .2	< .02	< .02	< .02
s-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
t-Butylbenzene	< .01	< .01	< .1	< .01	< .01	< .1	< .01	< .01	< .01
trans-1,2-Dichloroethene	< .05	< .05	< .5	< .05	< .05	< .5	< .05	< .05	< .05
trans-1,3-dichloropropene	< .03	< .03	< .3	< .03	< .03	< .3	< .03	< .03	< .03
Test Group:Gastech Units: ppm									
Hydrogen Sulfide									900
Methane									

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location:	SG141694	SG141794	SG142594	SG144994	SG145294	SG145294	SG145294	SG146394
Sample Identification Number:	SGG1416JE*	SGG1417JE	SGG1425JE	SGG1449JE	SGG1452JE	SGG1452JE**	SGG2095JE**R	SGG1463JE
Date Sampled:	10/21/94	10/18/94	10/21/94	11/14/94	10/18/94	10/18/94	2/17/95	11/14/94
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
1,1,1-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	0.12
1,1,2,2-Tetrachloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
1,1,2-Trichloroethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,1-Dichloroethane	< .3	< .03	< .03	< .03	0.44	< 3	< 2.9	< .03
1,1-Dichloroethene	< .51	< .05	< .05	< .05	1.5	< 5	< 4.8	0.59
1,1-dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,2,3-Trichlorobenzene	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,2,3-Trichloropropane	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
1,2,4-Trichlorobenzene	< .4	< .04	< .04	< .04	< .04	< 4	< 3.8	< .04
1,2,4-Trimethylbenzene	< .1	0.03	0.05	0.02	0.02	< 1	< 1	< .01
1,2-Dibromo-3-chloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,2-Dibromoethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,2-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
1,2-Dichloroethane	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
1,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,3,5-Trimethylbenzene	< .1	0.01	0.02	< .01	< .01	< 1	< 1	< .01
1,3-Dichlorobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
1,3-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
1,4-Dichlorobenzene	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
2,2-Dichloropropane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
2-Butanone	< .4	< .04	0.2	0.04	< .04	< 4	< 3.8	0.11
2-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
4-Chlorotoluene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
Acetone	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Benzene	1.1	0.77	0.64	0.31	0.61	4.4	< 2.9	0.62
Bromobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
Bromochloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Bromodichloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Bromoform	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
Bromomethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Carbon Disulfide	< .4	0.08	0.07	0.09	0.04	< 4	< 3.8	0.12
Carbon Tetrachloride	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	2.4
Chlorobenzene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
Chloroethane	< .81	< .08	< .08	< .08	0.11	< 8	< 7.6	< .08
Chloroform	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	1.1
Chloromethane	0.45	0.14	0.05	0.05	0.62	< 3	< 2.9	0.08
Dibromochloromethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Dibromromethane	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Dichlorodifluoromethane	< .4	0.12	< .04	< .04	< .04	< 4	< 3.8	< .04
Ethylbenzene	0.16	0.09	0.07	0.06	4.2 J	25	< 1	0.02
Hexachlorobutadiene	< .4	< .04	< .04	< .04	< .04	< 4	< 3.8	< .04
Isopropylbenzene	< .1	< .01	0.01	< .01	0.06	< 1	< 1	< .01
Methylene Chloride	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Naphthalene	< .3	< .03	0.05	< .03	< .03	< 3	< 2.9	< .03
Styrene	< .4	< .04	0.04	< .04	< .04	< 4	< 3.8	< .04
Tetrachloroethene	< .2	< .02	< .02	0.12	< .02	< 2	11	0.44
Toluene	< 1.11	0.6	0.41	0.27	0.52	< 11	< 10	0.48
Total Xylenes	0.12	0.22	0.19	0.1	0.74	< 4.1	< 3.8	0.08
Trichloroethene	< .3	< .03	< .03	0.06	< .03	< 3	10	< .03
Trichlorofluoromethane	< .51	0.36	< .05	< .05	0.24	61	< 4.8	< .05
Vinyl Chloride	5	5.6 J	3.5 J	< .07	75 J	230 J	31	< .07
cis-1,2-dichloroethene	< .3	0.08	< .03	0.09	0.26	< 3	< 2.9	< .03
cis-1,3-Dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
m & p-Xylenes	< .4	0.14	0.11	0.07	0.61	4.1	< 2	0.06
n-Butylbenzene	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
n-Propylbenzene	< .1	0.01	0.02	< .01	0.05	< 1	< 1	< .01
o-Xylene	< .1	0.05	0.06	0.03	0.13	< 1	< 1	0.02
p-Isopropyltoluene	< .2	< .02	< .02	< .02	< .02	< 2	< 1.9	< .02
s-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
t-Butylbenzene	< .1	< .01	< .01	< .01	< .01	< 1	< 1	< .01
trans-1,2-Dichloroethene	< .51	< .05	< .05	< .05	0.09	< 5	< 4.8	< .05
trans-1,3-dichloropropene	< .3	< .03	< .03	< .03	< .03	< 3	< 2.9	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane	900							

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location: Sample Identification Number: Date Sampled:	SG147594 SGG1475JE 10/17/94	SG147594 SGG1475JE* 10/17/94	SG147594 SGG1475JE**R 10/26/94	SG150894 SGG1508JE 2/20/95	SG150994 SGG1509JE 2/20/95	SG151094 SGG1510JE 2/20/95	SG151394 SGG1513JE 11/1/94	SG151894 SGG1518JE 2/20/95
Test Group:GC/MS Units: µg/L								
1,1,1,2-Tetrachloroethane	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
1,1,1-Trichloroethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,1,2,2-Tetrachloroethane	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
1,1,2-Trichloroethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,1-Dichloroethane	0.37	< .3	< 3	< .03	< .03	< .03	1.5	< .03
1,1-Dichloroethene	4.6 J	3.1	< 5	< .05	< .05	< .05	< .05	< .05
1,1-dichloropropene	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichlorobenzene	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,2,3-Trichloropropane	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
1,2,4-Trichlorobenzene	< .04	< .4	< 4	< .04	< .04	< .04	< .04	< .04
1,2,4-Trimethylbenzene	0.12	< .1	< 1	0.06	0.02	0.04	0.05	0.03
1,2-Dibromo-3-chloropropane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,2-Dibromoethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,2-Dichlorobenzene	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloroethane	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
1,2-Dichloropropane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,3,5-Trimethylbenzene	0.04	< .1	< 1	0.02	< .01	0.01	0.01	0.01
1,3-Dichlorobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
1,3-Dichloropropane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
1,4-Dichlorobenzene	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
2,2-Dichloropropane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
2-Butanone	0.16	0.83	< 4	0.15	0.07	0.07	0.16	< .04
2-Chlorotoluene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
4-Chlorotoluene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
Acetone	< .03	< .3	< 3	< .03	0.75	< .03	< .03	0.18
Benzene	1.5	1.2	< 3	0.4	0.77	0.56	0.45	0.08
Bromobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
Bromochloromethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Bromodichloromethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Bromoform	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
Bromomethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Carbon Disulfide	0.15	< .4	< 4	< .04	0.13	0.12	0.08	< .04
Carbon Tetrachloride	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Chlorobenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
Chloroethane	< .08	< .81	< 8	< .08	< .08	< .08	1.3	< .08
Chloroform	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Chloromethane	0.69	< .3	< 3	< .03	0.04	< .03	0.07	< .03
Dibromochloromethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Dibromromethane	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Dichlorodifluoromethane	< .04	< .4	< 4	< .04	< .04	< .04	< .04	< .04
Ethylbenzene	0.42	0.41	< 1	0.09	0.08	0.05	0.06	0.02
Hexachlorobutadiene	< .04	< .4	< 4	< .04	< .04	< .04	< .04	< .04
Isopropylbenzene	0.04	< .1	< 1	< .01	< .01	< .01	< .01	< .01
Methylene Chloride	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Naphthalene	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Styrene	0.07	< .4	< 4	< .04	< .04	< .04	< .04	< .04
Tetrachloroethene	0.03	< .2	< 2	0.03	< .02	0.04	0.06	0.03
Toluene	2.4 J	2.4	< 11	0.72	0.67	0.43	0.64	0.16
Total Xylenes	0.36	0.72	< 4	0.2	< .04	< .04	0.16	< .04
Trichloroethene	< .03	< .3	< 3	0.12	< .03	< .03	0.18	< .03
Trichlorofluoromethane	< .05	< .51	< 5	< .05	< .05	< .05	< .05	< .05
Vinyl Chloride	64 J	99 J	< 7	< .07	< .07	< .07	108 J	< .07
cis-1,2-dichloroethene	3 J	2.4	< 3	< .03	< .03	< .03	0.6	< .03
cis-1,3-Dichloropropene	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
m & p-Xylenes	0.24	0.52	< 4	0.14	< 2	< 2	0.1	< 2
n-Butylbenzene	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
n-Propylbenzene	0.07	< .1	< 1	0.02	< .01	0.01	< .01	< .01
o-Xylene	0.12	0.2	< 1	0.06	0.03	0.02	0.06	0.03
p-Isopropyltoluene	< .02	< .2	< 2	< .02	< .02	< .02	< .02	< .02
s-Butylbenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
t-Butylbenzene	< .01	< .1	< 1	< .01	< .01	< .01	< .01	< .01
trans-1,2-Dichloroethene	0.25	< .51	< 5	< .05	< .05	< .05	0.18	< .05
trans-1,3-dichloropropene	< .03	< .3	< 3	< .03	< .03	< .03	< .03	< .03
Test Group:Gastech Units: ppm								
Hydrogen Sulfide								
Methane								

TABLE E-2
Soil-Gas Summary of Results
Rejected Data

Sample Location: Sample Identification Number: Date Sampled:	SG151894 SGG2034JE 2/20/95	SG155594 SGG1555JE 10/24/94	SG167094 SGG1670JE**R 2/15/95	SG167294 SGG1672JE 9/16/94	SG167394 SGG1673JE 9/16/94	SG172694 SGG1726JE* 2/1/95
Test Group:GC/MS Units: µg/L	DUP					
1,1,1,2-Tetrachloroethane	< .02	< .02	< 2	< .02	< .02	< .2
1,1,1-Trichloroethane	< .03	< .03	< 3	< .03	< .03	< .3
1,1,2,2-Tetrachloroethane	< .02	< .02	< 2	< .02	< .02	< .2
1,1,2-Trichloroethane	< .03	< .03	< 3	< .03	< .03	< .3
1,1-Dichloroethane	< .03	< .03	< 3	< .03	< .03	< .3
1,1-Dichloroethene	< .05	0.18	< 5	< .05	< .05	< .5
1,1-dichloropropene	< .03	< .03	< 3	< .03	< .03	< .3
1,2,3-Trichlorobenzene	< .03	< .03	< 3	< .03	< .03	< .3
1,2,3-Trichloropropane	< .02	< .02	< 2	< .02	< .02	< .2
1,2,4-Trichlorobenzene	< .04	< .04	< 4	< .04	< .04	< .4
1,2,4-Trimethylbenzene	0.05	0.07	< 1	0.06	0.03	< .1
1,2-Dibromo-3-chloropropane	< .03	< .03	< 3	< .03	< .03	< .3
1,2-Dibromoethane	< .03	< .03	< 3	< .03	< .03	< .3
1,2-Dichlorobenzene	< .02	< .02	< 2	< .02	< .02	< .2
1,2-Dichloroethane	< .02	< .02	< 2	< .02	< .02	< .2
1,2-Dichloropropane	< .03	< .03	< 3	< .03	< .03	< .3
1,3,5-Trimethylbenzene	0.02	0.03	< 1	0.03	0.01	< .1
1,3-Dichlorobenzene	< .01	< .01	< 1	< .01	< .01	< .1
1,3-Dichloropropane	< .03	< .03	< 3	< .03	< .03	< .3
1,4-Dichlorobenzene	< .02	< .02	< 2	< .02	< .02	< .2
2,2-Dichloropropane	< .03	< .03	< 3	< .03	< .03	< .3
2-Butanone	0.06	0.34	< 4	< .04	0.25	< .4
2-Chlorotoluene	< .01	< .01	< 1	< .01	< .01	< .1
4-Chlorotoluene	< .01	< .01	< 1	< .01	< .01	< .1
Acetone	0.14	< .03	< 3	< .03	< .03	1.5
Benzene	0.04	1.2	< 3	0.27	0.78	0.69
Bromobenzene	< .01	< .01	< 1	< .01	< .01	< .1
Bromochloromethane	< .03	< .03	< 3	< .03	< .03	< .3
Bromodichloromethane	< .03	< .03	< 3	< .03	< .03	< .3
Bromoform	< .02	< .02	< 2	< .02	< .02	< .2
Bromomethane	< .03	< .03	< 3	< .03	< .03	< .3
Carbon Disulfide	< .04	0.09	< 4	< .04	0.11	< .4
Carbon Tetrachloride	< .03	< .03	< 3	< .03	< .03	< .3
Chlorobenzene	< .01	< .01	< 1	< .01	< .01	< .1
Chloroethane	< .08	< .08	< 8	< .08	< .08	< .81
Chloroform	< .03	< .03	< 3	< .03	< .03	< .3
Chloromethane	< .03	0.08	< 3	1.1	1.2	0.32
Dibromochloromethane	< .03	< .03	< 3	< .03	< .03	< .3
Dibromromethane	< .03	< .03	< 3	< .03	< .03	< .3
Dichlorodifluoromethane	< .04	< .04	< 4	< .04	< .04	< .4
Ethylbenzene	0.01	0.12	< 1	0.19	2.4 J	0.17
Hexachlorobutadiene	< .04	< .04	< 4	< .04	< .04	< .4
Isopropylbenzene	< .01	0.01	< 1	0.02	0.16	< .1
Methylene Chloride	< .03	< .03	< 3	< .03	< .03	< .3
Naphthalene	< .03	< .03	< 3	< .03	< .03	< .3
Styrene	< .04	0.04	< 4	0.04	0.72	< .4
Tetrachloroethene	0.21	< .02	96	0.16	< .02	0.55
Toluene	< .11	0.7	< 10	0.25	4.4 J	1.8
Total Xylenes	< .04	0.35	< 4	0.49	4.5 J	< .4
Trichloroethene	0.22	5.5 J	17	0.15	< .03	< .3
Trichlorofluoromethane	< .05	< .05	180	< .05	< .05	< .5
Vinyl Chloride	< .07	1.9	< 7	0.13	< .07	< .71
cis-1,2-dichloroethene	< .03	1.2	< 3	0.22	< .03	< .3
cis-1,3-Dichloropropene	< .03	< .03	< 3	< .03	< .03	< .3
m & p-Xylenes	< 2	0.25	< 2	0.25	2.3 J	< 2
n-Butylbenzene	< .02	< .02	< 2	< .02	< .02	< .2
n-Propylbenzene	< .01	0.03	< 1	0.03	0.05	< .1
o-Xylene	0.01	0.1	< 1	0.24	2.2 J	0.37
p-Isopropyltoluene	< .02	< .02	< 2	< .02	< .02	< .2
s-Butylbenzene	< .01	< .01	< 1	< .01	< .01	< .1
t-Butylbenzene	< .01	< .01	< 1	< .01	< .01	< .1
trans-1,2-Dichloroethene	< .05	0.12	< 5	< .05	< .05	< .5
trans-1,3-dichloropropene	< .03	< .03	< 3	< .03	< .03	< .3
Test Group:Gastech Units: ppm						
Hydrogen Sulfide						
Methane		150		1740	240	

APPENDIX E-3

Soil-Gas Detected Results

Order of Data by IHSS

117.1
197
117.2
158
117.3
152
134N
128
171
134S
148
157.1
186

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG120194 SGG2051JE*R 2/8/95	SG120294 SGG2052JER 2/8/95	SG120394 SGG2053JER 2/8/95	SG120494 SGG1204JE 12/1/94	SG120594 SGG1205JE 12/1/94	SG120994 SGG2054JER 2/10/95	SG121094 SGG2055JER 2/15/95	SG121194 SGG2056JER 2/8/95	SG121294 SGG2057JER 2/8/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	11	0					0.03	0.2			
1,1-Dichloroethane	1	0									
1,1-Dichloroethene	5	0						0.06			
1,2,4-Trimethylbenzene	46	0			0.01				0.02	0.01	0.01
1,3,5-Trimethylbenzene	7	0									
2-Butanone	46	0		0.16	0.34			0.08	0.09	0.08	0.14
Acetone	32	7		0.78			0.17		0.77		0.51
Benzene	88	12	0.6	.25 B	0.37	0.23	0.04	0.76	0.15	.29 B	.15 B
Bromomethane	3	0								0.03	
Carbon Disulfide	44	0		0.24	0.12	0.12		0.18	0.05	0.13	0.05
Carbon Tetrachloride	11	2									
Chlorobenzene	3	0									
Chloroform	3	1									
Chloromethane	40	1		0.04				0.05			0.35
Dichlorodifluoromethane	5	0									
Ethylbenzene	79	0		0.03	0.05	0.03	0.02	0.03	0.02	0.04	0.03
Methylene Chloride	1	0									
Naphthalene	3	0									
Tetrachloroethene	49	7	18 @	2.2 @	1.2 @			0.35	0.08	0.05	0.1
Toluene	60	6		0.16	0.2	0.18		0.26		0.15	
Total Xylenes	28	1									
Trichloroethene	22	4					0.5	0.44			
Trichlorofluoromethane	37	11									0.46
m & p-Xylenes	28	1									
n-Propylbenzene	7	0			0.02						
o-Xylene	66	0		0.02	0.02		0.01	0.01	0.02	0.03	0.02

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG121494 SGG2059JER 2/13/95	SG121594 SGG2060JE 2/8/95	SG121694 SGG2061JER 2/8/95	SG121794 SGG2062JER 2/15/95	SG121894 SGG2063JER 2/15/95	SG121994 SGG2064JER 2/15/95	SG122094 SGG2065JER 2/14/95	SG122294 SGG1222JE 11/30/94	SG122394 SGG1223JE 11/30/94	SG122494 SGG2066JE 3/22/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane					0.07	0.35	0.56			
1,1-Dichloroethane										
1,1-Dichloroethene						0.12	0.2			
1,2,4-Trimethylbenzene	0.02	0.02					0.02		0.03	0.02
1,3,5-Trimethylbenzene										
2-Butanone		0.29	0.13	0.05	0.08	0.14	0.1		0.08	0.07
Acetone	0.27	1.1 @	0.6						0.29	1.5 @
Benzene	0.1	0.28	.2 B	0.4	0.68	.39 B	0.42	0.24	0.14	0.85
Bromomethane										
Carbon Disulfide		0.08	0.11		0.26	0.19	0.08			0.06
Carbon Tetrachloride		0.04								
Chlorobenzene										
Chloroform										
Chloromethane		0.04	0.04	0.08	0.07	0.13				0.04
Dichlorodifluoromethane				0.04	0.05					
Ethylbenzene	0.02	0.03	0.01	0.07	0.01	0.03	0.03	0.04	0.03	0.08
Methylene Chloride										
Naphthalene										
Tetrachloroethene	1.5 @	3.1 @	0.59	0.13	0.36	0.03	0.04			
Toluene		0.17		0.24	0.13	0.18	0.19	0.18		0.57
Total Xylenes									0.09	0.11
Trichloroethene	0.06	0.22	0.04		1.6 @	2.6 @	0.21			
Trichlorofluoromethane	0.12		0.06	1.6 @	1.4 @	0.05			0.18	0.14
m & p-Xylenes									0.06	0.08
n-Propylbenzene										
o-Xylene	0.01	0.03		0.02		0.01	0.02	0.02	0.03	0.03

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG122594 SGG1225JE 11/30/94	SG122694 SGG1226JE 11/30/94	SG122794 SGG1227JE 11/30/94	SG122894 SGG1228JE 11/21/94	SG122994 SGG2067JER 2/13/95	SG123094 SGG1230JE 11/18/94	SG123194 SGG2068JER 2/8/95	SG123294 SGG2069JER 2/8/95	SG123394 SGG1233JE 11/18/94	SG123494 SGG1234JE 12/20/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane			0.03		0.57					
1,1-Dichloroethane										
1,1-Dichloroethene					0.21					
1,2,4-Trimethylbenzene	0.01				0.02			0.01		0.01
1,3,5-Trimethylbenzene										
2-Butanone					0.06	0.05				
Acetone				0.13			0.11		0.26	
Benzene	0.12	0.31	0.12	0.14	0.27	0.26	0.03	0.21	0.09	0.4
Bromomethane										
Carbon Disulfide		0.06			0.05					
Carbon Tetrachloride										
Chlorobenzene										
Chloroform										
Chloromethane						0.1	0.21	0.07		
Dichlorodifluoromethane										
Ethylbenzene	0.03	0.06	0.02	0.03	0.02	0.01		0.02	0.01	0.01
Methylene Chloride										
Naphthalene										
Tetrachloroethene				0.15	0.04	0.24	0.6	0.2	0.31	0.03
Toluene	0.12	0.25			0.2					0.15
Total Xylenes		0.07		0.07						
Trichloroethene					0.25	0.09	0.1	0.37	0.04	0.1
Trichlorofluoromethane					0.11	0.34	0.46	0.12		
m & p-Xylenes		0.05		0.05						
n-Propylbenzene										
o-Xylene	0.02	0.02	0.01	0.02				0.01		0.01

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG123594 SGG1235JE 11/23/94	SG123694 SGG2070JER 2/8/95	SG123794 SGG2071JER 2/8/95	SG123994 SGG1239JE*R 12/2/94	SG124094 SGG1240JE 11/21/94	SG124194 SGG1241JE 11/22/94	SG124294 SGG2072JER 2/15/95	SG124394 SGG2073JER 2/14/95	SG124494 SGG2074JER 2/14/95	SG124594 SGG2075JE*R 2/13/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene										
1,2,4-Trimethylbenzene	0.01		0.01					0.02	0.06	
1,3,5-Trimethylbenzene									0.02	
2-Butanone		0.05	0.16				0.07		0.16	
Acetone	0.06				0.44					1.3 @
Benzene		0.52	0.62	0.74	0.26		.38 B	0.05	0.54	
Bromomethane										
Carbon Disulfide		0.13	0.23		0.1		0.18		0.09	
Carbon Tetrachloride										
Chlorobenzene										
Chloroform										
Chloromethane			0.06				0.06		0.04	0.44
Dichlorodifluoromethane										
Ethylbenzene	0.01	0.03	0.06		0.02		0.05		0.11	0.1
Methylene Chloride			0.08							
Naphthalene										
Tetrachloroethene	0.45	0.02	0.32		0.09	0.72		0.05	0.59	0.83
Toluene		0.23	0.31		0.14		0.25		0.48	
Total Xylenes									0.25	
Trichloroethene	0.04									
Trichlorofluoromethane	0.05	0.34	0.39							9.6 @
m & p-Xylenes									0.18	
n-Propylbenzene			0.01						0.01	
o-Xylene	0.01	0.02	0.03		0.01		0.01		0.07	

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG124694 SGG2076JER 2/13/95	SG124794 SGG1247JE 11/22/94	SG124894 SGG2077JER 2/15/95	SG124994 SGG2078JER 2/14/95	SG125094 SGG2079JER 2/8/95	SG125294 SGG1252JE 12/20/94	SG125394 SGG1253JE 12/20/94	SG125494 SGG1254JER 12/20/94	SG125594 SGG1255JER 12/20/95	SG125594 SGG1255JE*R 12/20/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene										
1,2,4-Trimethylbenzene	0.02	0.01		0.02		0.02	0.01	0.03	0.02	
1,3,5-Trimethylbenzene										
2-Butanone	0.14			0.1				0.04		
Acetone					6.1 @	0.05				0.54
Benzene	0.55	0.25	0.22	0.41	3.4 @		0.21	0.35	0.6	0.35
Bromomethane		0.08								
Carbon Disulfide	0.16		0.15	0.16				0.05	0.07	
Carbon Tetrachloride										
Chlorobenzene									0.02	
Chloroform						0.09	0.19			
Chloromethane		0.55	0.07							
Dichlorodifluoromethane										
Ethylbenzene	0.08	0.02	0.02	0.02				0.04	0.02	
Methylene Chloride										
Naphthalene							0.03			
Tetrachloroethene	0.14	0.07	0.04	0.06	2200 J @	0.04				
Toluene	0.4	0.13	0.15	0.18				0.33		
Total Xylenes								0.11	0.07	
Trichloroethene	0.13				19 @					
Trichlorofluoromethane	0.52	0.49			47 @					
m & p-Xylenes								0.08	0.05	
n-Propylbenzene										
o-Xylene	0.03	0.01	0.01	0.01		0.01		0.03	0.02	

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location:	SG125694	SG125794	SG125894	SG125994	SG126094	SG126294	SG126394	SG126494	SG126594	SG126694
Sample Identification Number:	SGG1256JE	SGG2083JER	SGG2084JER	SGG2085JER	SGG1260JE	SGG1262JE	SGG2086JER	SGG2087JER	SGG1265JE	SGG1266JER
Date Sampled:	12/1/94	2/14/95	3/28/95	2/14/95	11/30/94	11/30/94	2/14/95	2/14/95	12/2/94	12/20/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane				0.08			0.09			
1,1-Dichloroethane						0.04				
1,1-Dichloroethene										
1,2,4-Trimethylbenzene		0.02		0.04	0.02			0.05	0.02	
1,3,5-Trimethylbenzene				0.01				0.02		
2-Butanone	0.04	0.15	0.08	0.08	0.11	0.08		0.06		0.06
Acetone			0.68			0.39			0.26	
Benzene	0.34	0.48	0.59	0.5	0.26	0.04	0.04	0.55	0.06	0.54
Bromomethane										
Carbon Disulfide		0.21	0.08	0.23	0.08			0.15		
Carbon Tetrachloride										
Chlorobenzene										0.02
Chloroform										
Chloromethane		0.04	0.56	0.15			0.05	0.33		0.06
Dichlorodifluoromethane										
Ethylbenzene	0.02	0.05	0.04	0.05	0.02	0.01		0.07	0.02	0.02
Methylene Chloride										
Naphthalene										
Tetrachloroethene	0.02	0.1	0.07	1.5 @			0.04	0.07	0.02	0.09
Toluene	0.14	0.21	0.34	0.21	0.12			0.37		0.22
Total Xylenes					0.06			0.14		
Trichloroethene				0.14			0.33			
Trichlorofluoromethane			0.33			0.29				
m & p-Xylenes					0.04			0.1		
n-Propylbenzene				0.01				0.01		
o-Xylene	0.01	0.03	0.02	0.03	0.02			0.04	0.01	

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location:	SG126794	SG126894	SG126994	SG127094	SG127194	SG127294	SG127394	SG127494	SG127594	SG127694	SG127794
Sample Identification Number:	SGG1267JE	SGG1268JE	SGG1269JE	SGG1270JE	SGG2088JER	SGG1272JE	SGG1273JE	SGG1274JE	SGG1275JE	SGG1276JE	SGG1277JE
Date Sampled:	11/16/94	11/16/94	12/1/94	12/1/94	2/15/95	12/2/94	12/2/94	12/2/94	12/2/94	12/2/94	12/1/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene						0.02	0.02	0.03	0.04	0.01	
1,3,5-Trimethylbenzene									0.01		
2-Butanone					0.08			0.18		0.09	
Acetone	0.18	0.21						0.77			
Benzene	0.11	0.13	0.32	0.46	0.77	0.26	0.18	0.69	0.68	0.52	0.19
Bromomethane											
Carbon Disulfide				0.1	0.15	0.07		0.1			
Carbon Tetrachloride											
Chlorobenzene											
Chloroform											
Chloromethane	1.2 @	0.05		0.04	0.09			0.18		0.2	
Dichlorodifluoromethane					0.05						
Ethylbenzene	0.02		0.04	0.02	0.06	0.02	0.04	0.09	0.03	0.07	0.01
Methylene Chloride											
Naphthalene						0.04	0.03				
Tetrachloroethene											
Toluene			0.17	0.24	0.42	0.15	0.11	0.4	0.17	0.3	
Total Xylenes							0.1	0.16	0.09	0.06	
Trichloroethene											
Trichlorofluoromethane	0.3	0.26			2 @						
m & p-Xylenes							0.07	0.11	0.06	0.04	
n-Propylbenzene								0.01			
o-Xylene	0.02				0.02	0.01	0.03	0.05	0.03	0.02	

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG127894 SGG1278JE 12/1/94	SG128094 SGG1280JE 12/2/94	SG128194 SGG1281JE 12/12/94	SG128194 SGG1281JE* 12/12/94	SG128294 SGG1282JE 12/12/94	SG128394 SGG1283JE 12/12/94	SG128494 SGG1284JE 12/15/94	SG128594 SGG1285JE 12/15/94	SG128594 SGG1285JE* 12/15/95	SG128694 SGG1286JE 12/15/94	SG128794 SGG1287JE 12/15/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane							0.18				
1,1-Dichloroethane											
1,1-Dichloroethene											0.08
1,2,4-Trimethylbenzene			0.07	0.11	0.02	0.03					
1,3,5-Trimethylbenzene			0.02			0.01					
2-Butanone			0.05		0.05		0.14			0.06	0.05
Acetone		1.7 @						0.1	0.5		
Benzene	0.15	0.88	0.32	0.61	0.36	0.73	0.96			1.1 @	0.31
Bromomethane											
Carbon Disulfide		0.04	0.09			0.12	0.06			0.13	
Carbon Tetrachloride			0.06		0.16	0.13					
Chlorobenzene											
Chloroform											
Chloromethane						0.39	0.06	0.04		0.04	0.03
Dichlorodifluoromethane								0.08			
Ethylbenzene	0.01	0.07	0.14	0.17	0.02	0.04	0.04			0.02	0.01
Methylene Chloride											
Naphthalene											
Tetrachloroethene					0.08	0.18	0.06				
Toluene		0.49	4.4 J	10 @	0.62	0.39	1.2 @			0.3	0.23
Total Xylenes		0.07	0.44	0.64	0.12	0.1	0.08			0.07	
Trichloroethene											0.1
Trichlorofluoromethane					0.06		0.51	17 J	4.3 @	0.22	
m & p-Xylenes		0.05	0.33	0.47	0.09	0.07	0.06			0.05	
n-Propylbenzene			0.01								
o-Xylene		0.02	0.11	0.17	0.03	0.03	0.02			0.02	

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG128894 SGG1288JE 12/15/94	SG128994 SGG1289JE 12/15/94	SG129094 SGG1290JE 12/12/94	SG129194 SGG1291JE 12/12/94	SG129394 SGG1293JE 12/12/94	SG129494 SGG1294JE 12/20/95	SG129594 SGG1295JE 12/20/95	SG129694 SGG1296JE 12/15/94	SG129794 SGG1297JE 12/15/94	SG129794 SGG1297JE* 12/15/95	SG129894 SGG1298JE 12/15/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane						0.08					
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene	0.01	0.02	0.03	0.03		0.02			0.03		0.02
1,3,5-Trimethylbenzene									0.01		
2-Butanone	0.08	0.13	0.09			0.13		0.04	0.24		0.06
Acetone										1 NC	
Benzene	1.1 @	1.4 @	0.31	0.25	0.38	1.1 @		0.33	0.47	0.34	0.25
Bromomethane											
Carbon Disulfide	0.18	0.08	0.07		0.06	0.18					
Carbon Tetrachloride	0.03	0.04	0.06	0.04		0.21					
Chlorobenzene											
Chloroform											
Chloromethane	0.12	0.12				0.05			0.06		
Dichlorodifluoromethane									0.08		
Ethylbenzene	0.08	0.06	0.04	0.02		0.06		0.02	0.04		0.04
Methylene Chloride											
Naphthalene											
Tetrachloroethene						0.04					
Toluene	0.63	0.89	1.5 @	0.17		0.63		0.14	1 @		0.16
Total Xylenes	0.15	0.17	0.14	0.11		0.12			0.12		0.13
Trichloroethene											
Trichlorofluoromethane				3.9 @	2.8 @	0.06		0.47	12 J	7 @	
m & p-Xylenes	0.11	0.13	0.1	0.08		0.09			0.08		0.09
n-Propylbenzene											
o-Xylene	0.04	0.04	0.04	0.03		0.03		0.02	0.04		0.04

TABLE E-3
Soil Gas Detected Results
IHSS 117.1

Sample Location: Sample Identification Number: Date Sampled:	SG129994 SGG1299JE 12/15/94	SG215894 SGG2158JE 3/17/95	SG215994 SGG2159JE** 3/17/95	SG216194 SGG2161JE 3/17/95	SG216294 SGG2162JE* 3/17/95
Test Group:GC/MS Units:µg/L					
1,1,1-Trichloroethane					
1,1-Dichloroethane					
1,1-Dichloroethene					
1,2,4-Trimethylbenzene		0.01			
1,3,5-Trimethylbenzene					
2-Butanone					
Acetone	0.04	0.45		0.31	2 @
Benzene		0.24		0.06	1.5 @
Bromomethane				0.04	
Carbon Disulfide					
Carbon Tetrachloride		2.7 @	930 J @		
Chlorobenzene					0.13
Chloroform			6.2 @		
Chloromethane				0.05	
Dichlorodifluoromethane					
Ethylbenzene		0.02		0.02	0.65
Methylene Chloride					
Naphthalene					
Tetrachloroethene	0.1			0.07	
Toluene		0.19		0.24	27 @
Total Xylenes					1.93 @
Trichloroethene		0.04	10 @		
Trichlorofluoromethane	0.15			0.76	
m & p-Xylenes					1.5 @
n-Propylbenzene					
o-Xylene		0.01		0.02	0.43

TABLE-3
Soil Gas Detected Results
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Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG130094 SGG1300JE 2/3/95	SG130194 SGG1301JE 2/3/95	SG130294 SGG1302JE 2/2/95	SG130394 SGG1303JE 2/3/95	SG130494 SGG1304JE 2/3/95	SG130594 SGG1305JE* 2/3/95	SG130694 SGG1306JE 2/3/95	SG130794 SGG1307JE 2/3/95	SG130894 SGG1308JE 2/3/95	SG130994 SGG1309JE 2/3/95
Test Group:GC/MS Units:µg/L												
1,1,1-Trichloroethane	3	0	0.06	0.09					0.03			
1,1-Dichloroethane	2	0			0.07				0.05			
1,1-Dichloroethene	4	0			0.08		0.31		0.16			0.59
1,2,4-Trimethylbenzene	15	0			0.02	0.01	0.02					0.02
1,3-Dichloropropane	1	0										
2-Butanone	19	0			0.53	0.19	0.13				0.11	0.12
Acetone	3	0						0.43				
Benzene	25	16	0.28	0.11	1.1 @	0.43	0.21		0.26	0.16	0.51	0.76
Bromomethane	1	0										
Carbon Disulfide	19	0	0.08		0.2	0.1	0.04		0.08	0.05	0.06	0.04
Chloroform	1	0		0.14								
Chloromethane	20	0		0.05	0.05	0.1	0.11		0.14		0.09	0.09
Ethylbenzene	27	0	0.04	0.02	0.12	0.04	0.03		0.02	0.01	0.05	0.1
Isopropylbenzene	1	0										
Tetrachloroethene	7	2	0.39	2.2	0.09			4.8 @	0.74	0.04		0.06
Toluene	23	4	0.26	0.15	1.4 @	0.33	0.2		0.12		0.36	0.77
Total Xylenes	6	1	0.13		0.26							0.2
Trichloroethene	5	1		0.37	0.19			1.1 @	0.31			0.42
Trichlorofluoromethane	9	2				0.09	1.1 @		0.1			0.84
cis-1,2-dichloroethene	5	2			0.14		0.76		0.06			3.4 @
m & p-Xylenes	6	0	0.1		0.18							0.14
n-Propylbenzene	3	0			0.02							0.01
o-Xylene	26	0	0.03	0.02	0.08	0.02	0.03		0.02	0.02	0.05	0.06
p-Isopropyltoluene	1	0						0.77				
trans-1,2-Dichloroethene	1	0										0.08

TABLE E-3
Soil Gas Detected Results
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Sample Location: Sample Identification Number: Date Sampled:	SG131094 SGG1310JE 2/3/95	SG131194 SGG1311JE 2/7/95	SG131294 SGG1312JE 2/7/95	SG131494 SGG1314JE 2/6/95	SG131594 SGG1315JE 2/7/95	SG131694 SGG1316JE 2/7/95	SG131794 SGG1317JE 2/6/95	SG131994 SGG1319JE 2/6/95	SG132094 SGG1320JE 2/6/95	SG132194 SGG1321JE* 2/6/95	SG132394 SGG1323JE 2/7/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene	0.01	0.02	0.01		0.01	0.01					0.01
1,3-Dichloropropane											
2-Butanone	0.29	0.1	0.05		0.04				0.17		0.15
Acetone							0.11				
Benzene	0.66	.59 B	.13 B					.54 B	.6 B	1 B	.56 B
Bromomethane											
Carbon Disulfide	0.07	0.07	0.05					0.14	0.11		0.1
Chloroform											
Chloromethane	0.05	0.07	0.05			0.05			0.05		0.04
Ethylbenzene	0.06	0.03	0.02	0.01	0.02	0.01		0.01	0.05	0.24	0.04
Isopropylbenzene											
Tetrachloroethene											
Toluene	0.51	0.32						0.36	0.78	5.1 @	0.28
Total Xylenes	0.15										
Trichloroethene											
Trichlorofluoromethane	1.1 @							0.29			
cis-1,2-dichloroethene	1.5 @										
m & p-Xylenes	0.1										
n-Propylbenzene											
o-Xylene	0.05	0.03	0.02	0.01	0.02	0.01			0.03	0.25	0.04
p-Isopropyltoluene											
trans-1,2-Dichloroethene											

TABLE-3
Soil Gas Detected Results
IHSS 197

Sample Location: Sample Identification Number: Date Sampled:	SG132594 SGG1325JE 2/6/95	SG132694 SGG1326JE 2/7/95	SG132794 SGG1327JE 2/7/95	SG132894 SGG1328JE 2/6/95	SG133094 SGG1330JE* 2/7/95	SG133394 SGG1333JE 2/7/95	SG133694 SGG1336JE 2/7/95	SG133894 SGG1338JE 2/6/95	SG133994 SGG1339JE 2/7/95
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1-Dichloroethane									
1,1-Dichloroethene									
1,2,4-Trimethylbenzene			0.01			0.02	0.02	0.01	0.02
1,3-Dichloropropane					0.31				
2-Butanone	0.24	0.05	0.09	0.15		0.12	0.06	0.21	0.05
Acetone			0.34						
Benzene	.28 B	.41 B	.22 B	.75 B	1.2 @	1.2 B @	.13 B	.61 B	.5 B
Bromomethane			0.1						
Carbon Disulfide		0.22		0.13		0.28		0.11	0.18
Chloroform									
Chloromethane		0.05	0.05		0.56	0.08	0.3	0.04	0.05
Ethylbenzene	0.03	0.04	0.04	0.07		0.08	0.12	0.04	0.03
Isopropylbenzene							0.01		
Tetrachloroethene									
Toluene	0.12	0.24	0.16	0.41	22 @	1.4 @	0.28	0.27	0.26
Total Xylenes						0.19	1.05 @		
Trichloroethene									
Trichlorofluoromethane				0.06	0.58		0.58		
cis-1,2-dichloroethene									
m & p-Xylenes						0.14	0.7		
n-Propylbenzene							0.01		
o-Xylene	0.02	0.02	0.02	0.02		0.05	0.35	0.02	0.02
p-Isopropyltoluene									
trans-1,2-Dichloroethene									

TABLE-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG134094 SGG1340JE 11/3/94	SG134094 SGG1340JE* 11/3/94	SG134194 SGG1341JER 11/7/94	SG134294 SGG1342JE 12/16/94	SG134394 SGG1343JE 12/16/94	SG134494 SGG1344JE 12/16/94	SG134594 SGG1345JE 12/16/94	SG134694 SGG1346JE 12/16/94	SG134794 SGG1347JE 12/16/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	20	5									
1,1-Dichloroethane	43	19									
1,1-Dichloroethene	62	39	0.21		0.33					0.06	
1,2,4-Trimethylbenzene	122	4	0.04		0.02		0.02				
1,2-Dichloroethane	1	0									
1,3,5-Trimethylbenzene	48	0	0.02								
1,3-Dichlorobenzene	1	0									
1,3-Dichloropropane	1	0									
2-Butanone	78	2	0.06		0.04		0.1	0.05	0.11		0.08
2-Chlorotoluene	1	0									
Acetone	49	25				0.09					
Benzene	161	35	0.3		0.3	0.11	0.52	0.17	0.95		0.72
Bromomethane	12	1									
Carbon Disulfide	55	0			0.05		0.1		0.18		
Carbon Tetrachloride	2	2									
Chlorobenzene	5	1									
Chloroethane	8	5									
Chloroform	8	1									
Chloromethane	81	18	0.17				0.06	0.19	0.11	0.04	0.08
Dichlorodifluoromethane	4	1									
Ethylbenzene	149	7	0.06		0.04		0.03	0.02	0.02		0.06
Isopropylbenzene	20	0									
Naphthalene	34	3									
Styrene	12	0									
Tetrachloroethene	84	42	0.04		0.21						
Toluene	125	36	0.22		0.27				0.19		0.42
Total Xylenes	116	8	0.06		0.08		0.13		0.06		0.09
Trichloroethene	69	32	16 J	15 @	0.08						
Trichlorofluoromethane	40	25			0.76	2.6 @	1.3 @	0.66		0.09	
Vinyl Chloride	114	98								0.2	2.2 @
cis-1,2-dichloroethene	100	49	16 J	16 @	0.03				0.04	0.06	0.5
m & p-Xylenes	118	8	0.04		0.06		0.1		0.05		0.06
n-Butylbenzene	2	0									
n-Propylbenzene	60	0	0.02								
o-Xylene	140	3	0.02		0.02		0.03	0.01	0.01		0.03
p-Isopropyltoluene	1	0									
s-Butylbenzene	6	0									
trans-1,2-Dichloroethene	24	14	0.09		0.21						

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG134894 SGG1348JE 12/16/95	SG134994 SGG1349JE 12/16/94	SG135094 SGG1350JE 12/16/94	SG135194 SGG1351JE*R 3/28/95	SG136394 SGG1363JE 11/7/94	SG136394 SGG1363JE* 11/3/94	SG137794 SGG1377JE 10/18/94	SG138194 SGG1381JE 10/19/94	SG138294 SGG1382JE*RR 10/19/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1-Dichloroethane			0.05	1.3	0.03				
1,1-Dichloroethene	0.09		0.07	1.6	0.49				
1,2,4-Trimethylbenzene		0.02		0.68	0.01		0.01	0.02	
1,2-Dichloroethane									
1,3,5-Trimethylbenzene				0.53					
1,3-Dichlorobenzene									
1,3-Dichloropropane									
2-Butanone									
2-Chlorotoluene									
Acetone	0.19	0.17		0.81					2.3 @
Benzene			0.2	0.65	0.05		0.35	0.7	0.51
Bromomethane									
Carbon Disulfide							0.07	0.06	
Carbon Tetrachloride									
Chlorobenzene				0.2					
Chloroethane									
Chloroform									
Chloromethane	1.1 @		0.11			0.52			3.9 @
Dichlorodifluoromethane									
Ethylbenzene		0.02		0.37	0.01		0.07	0.07	0.1
Isopropylbenzene				0.18					
Naphthalene							0.08	0.07	
Styrene									
Tetrachloroethene					0.06				
Toluene		0.14					0.32	0.62	
Total Xylenes		0.08					0.12	0.12	
Trichloroethene			0.06		0.69	2 NC			
Trichlorofluoromethane	12 J @	4.2 J @		2.8	0.56				
Vinyl Chloride	1.2 @	2.2 @	1.1 @	8.9	0.23		0.3		
cis-1,2-dichloroethene	1.6 @		2.3 @	0.77	0.79	4.1 NC	0.08		
m & p-Xylenes		0.06					0.08	0.08	
n-Butylbenzene				0.23					
n-Propylbenzene				0.32			0.01		
o-Xylene		0.02		0.65			0.04	0.04	
p-Isopropyltoluene									
s-Butylbenzene				0.18					
trans-1,2-Dichloroethene									

T[illegible]E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG138394 SGG1383JE 10/20/94	SG138394 SGG1383JE** 10/20/94	SG138494 SGG1384JE 10/20/94	SG138494 SGG1384JE** 10/20/94	SG138594 SGG1385JE 10/20/94	SG138594 SGG1385JE** 10/20/94	SG138694 SGG1386JE 10/19/94	SG138694 SGG1386JE* 10/19/94	SG138794 SGG1387JE 10/19/94	SG138794 SGG1387JE* 10/19/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane			0.27		0.07					
1,1-Dichloroethene	2.8 J @									
1,2,4-Trimethylbenzene	0.05	3.1 NC	0.06		0.05	1.7 NC			0.02	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene	0.02		0.02		0.01					
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone			0.16		0.13					
2-Chlorotoluene										
Acetone		3.5 NC		3.5 @		5.2 NC	1.2 @			1.7 NC
Benzene	0.52		0.34		0.46		0.46	0.92	0.73	0.57
Bromomethane	0.06									
Carbon Disulfide	0.12		0.05				0.04		0.07	
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane	3.8 J @									
Chloroform										
Chloromethane	0.34		0.06		0.06					
Dichlorodifluoromethane										
Ethylbenzene	0.11	2 NC	0.06		0.09		0.05		0.08	
Isopropylbenzene										
Naphthalene	0.12						0.06		0.14	
Styrene										
Tetrachloroethene										
Toluene	0.41		0.29		0.49		0.31		2.2 J	2.1 @
Total Xylenes	0.4	13.3 NC	0.18		0.28		0.1		0.18	
Trichloroethene	0.37				0.12					
Trichlorofluoromethane					0.15				5.9 J	1.2 @
Vinyl Chloride	970 J	460 J @	34 J	24 @	27 J	7 @	1.9 @			
cis-1,2-dichloroethene	130 J	320 @	0.45	3.3 NC	1.6	20 @				
m & p-Xylenes	0.28	10 NC	0.13		0.2		0.07		0.12	
n-Butylbenzene										
n-Propylbenzene	0.02		0.01		0.01					
o-Xylene	0.12	3.3 NC	0.05		0.08		0.03		0.06	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene	4.8 J @									

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG138894 SGG1388JE 10/18/94	SG138994 SGG1389JE 11/10/94	SG138994 SGG1389JE* 11/10/94	SG138994 SGG1389JE** 11/10/94	SG139194 SGG2089JER 2/17/95	SG139294 SGG2090JER 2/17/95	SG139394 SGG2091JER 2/17/95	SG139494 SGG1394JE 11/29/94	SG139494 SGG1394JE* 11/29/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1-Dichloroethane		0.49	0.62						
1,1-Dichloroethene		16 J	35	31 @					
1,2,4-Trimethylbenzene	0.02	0.02			0.09	0.08	0.02	0.02	
1,2-Dichloroethane									
1,3,5-Trimethylbenzene					0.03	0.03			
1,3-Dichlorobenzene									
1,3-Dichloropropane									
2-Butanone	0.22	0.05			0.18	0.24	0.14	0.08	
2-Chlorotoluene									
Acetone					1.1 @			2.8	2.6 @
Benzene	0.26	0.28			0.58	1.4 @	0.69	0.35	0.4
Bromomethane		0.28							
Carbon Disulfide					0.07	0.2	0.25		
Carbon Tetrachloride									
Chlorobenzene									
Chloroethane									
Chloroform									
Chloromethane			5	5.2 @	0.06	0.07	0.06		
Dichlorodifluoromethane									
Ethylbenzene	0.04	0.05			0.07	0.06	0.03	0.09	0.16
Isopropylbenzene									
Naphthalene	0.04		0.38						
Styrene									
Tetrachloroethene		0.68	1 @		0.07	0.07	0.08		
Toluene	0.24	0.27			0.33	0.66	0.24	5.1 J	20 @
Total Xylenes	0.12	0.1			0.16	0.16		0.3	
Trichloroethene		0.21			0.07	0.08	0.06		
Trichlorofluoromethane									0.62
Vinyl Chloride	0.27	31 J	50 J	47 @				1.6 @	
cis-1,2-dichloroethene		8.5 J	12	10 @				0.07	
m & p-Xylenes	0.07	0.06			0.12	0.12		0.23	
n-Butylbenzene									
n-Propylbenzene		0.01			0.02	0.01			
o-Xylene	0.05	0.04			0.04	0.04	0.02	0.07	0.12
p-Isopropyltoluene									
s-Butylbenzene									
trans-1,2-Dichloroethene			1.4 NC						

TA[illegible]E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG139594 SGG1395JE* 11/3/94	SG139594 SGG1395JE** 11/3/94	SG139694 SGG1396JE** 11/3/94	SG139794 SGG1397JE 11/10/94	SG139894 SGG1398JE 10/18/94	SG139894 SGG1398JE* 10/18/94	SG139894 SGG1398JE**R 10/26/94	SG139994 SGG1399JE 10/19/94	SG140094 SGG1400JE 10/21/94	SG140094 SGG1400JE** 10/21/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane	3.8	3.3 @	15 @		0.17					
1,1-Dichloroethene	5 @		290 @	0.05	0.56	0.6				
1,2,4-Trimethylbenzene				0.01	0.02			0.03	0.02	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene										
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone				0.08						
2-Chlorotoluene										
Acetone		2.9 NC					3.9 NC			
Benzene				0.77	0.43	0.44		1.2 @	0.5	
Bromomethane										
Carbon Disulfide				0.06	0.08			0.1		
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane		7.3 NC		0.25	0.11				0.07	
Dichlorodifluoromethane										
Ethylbenzene				0.03	0.08	0.12		0.1	0.09	
Isopropylbenzene										
Naphthalene	3.4 @				0.08			0.07	0.1	
Styrene										
Tetrachloroethene									4.6 J	4.5 @
Toluene				0.4	0.41			0.68	0.36	
Total Xylenes						0.15			0.15	0.16
Trichloroethene			3.8 @		0.07				0.96	
Trichlorofluoromethane					0.57	42 J NC				
Vinyl Chloride	150 J	170 @	9.6 @	1.3 @	25 J	14 @			18 J	28 @
cis-1,2-dichloroethene	1.6 @		51 @	0.05	0.28				0.64	
m & p-Xylenes					0.11			0.11	0.11	
n-Butylbenzene										
n-Propylbenzene					0.01					
o-Xylene				0.01	0.04			0.04	0.05	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene					0.05					

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG140194 SGG1401JE 10/20/94	SG140194 SGG1401JE* 10/20/94	SG140294 SGG1402JE 10/20/94	SG140394 SGG1403JE 10/20/94	SG140494 SGG1404JE 10/18/94	SG140594 SGG1405JE 11/29/94	SG140694 SGG1406JE 11/7/94	SG140694 SGG1406JE** 11/7/94	SG140794 SGG1407JE** 11/7/94	SG140894 SGG1408JE 10/28/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane							0.03		20 @	
1,1-Dichloroethane							21 J	49 @	20 @	
1,1-Dichloroethene							210 J	2700 J @	110 @	
1,2,4-Trimethylbenzene	0.03			0.04	0.07	0.01	0.03			0.02
1,2-Dichloroethane										
1,3,5-Trimethylbenzene				0.01	0.02					
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone				0.3	0.24		0.13			0.09
2-Chlorotoluene										
Acetone										0.36
Benzene	0.39	0.47	0.91	0.35	0.56	0.44	0.2			0.33
Bromomethane				0.12						
Carbon Disulfide	0.06		0.11	0.05		0.04				
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane	2 J	0.88					7 J @			
Chloroform					0.03		0.07			
Chloromethane	0.05		0.1	0.13		0.15	2.6 @			
Dichlorodifluoromethane										
Ethylbenzene	0.07	0.18	0.03	0.06	0.1	0.03	0.07			0.03
Isopropylbenzene										
Naphthalene	0.3				0.06					0.05
Styrene					0.06					
Tetrachloroethene	0.17	0.21					6.8 J	15 @		
Toluene	0.35		0.66	0.52	0.5	0.46	0.29			0.14
Total Xylenes		0.18	0.62	0.05	0.17	0.31	0.11	0.13		
Trichloroethene	0.18		0.11				1.4 @		3 @	
Trichlorofluoromethane		19 NC							28 @	
Vinyl Chloride	21 J	9 @	0.81	1.4 @		2.6 @	113 J	120 @		
cis-1,2-dichloroethene	0.67	0.77	0.52			0.04	15 J	34 @	12 @	
m & p-Xylenes	0.14	0.46	0.04	0.11	0.18	0.08	0.09			
n-Butylbenzene										
n-Propylbenzene				0.02	0.02		0.02			0.01
o-Xylene	0.04	0.16	0.01	0.06	0.13	0.03	0.04			0.02
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene							58 J	110 @		

TA[illegible]-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG140994 SGG2092JE*R 2/17/95	SG141094 SGG1410JE 11/10/94	SG141194 SGG1411JE 10/18/94	SG141194 SGG1411JE* 10/18/94	SG141194 SGG1411JE**R 10/26/94	SG141294 SGG1412JE 10/19/94	SG141394 SGG1413JE 10/20/94	SG141494 SGG1414JE 10/20/94	SG141594 SGG1415JE 10/20/94	SG141694 SGG2093JER 2/17/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane			0.17							
1,1-Dichloroethene			2.6 J	1.8	23 @					0.07
1,2,4-Trimethylbenzene			0.03			0.05	0.05	0.04		
1,2-Dichloroethane										
1,3,5-Trimethylbenzene						0.01	0.01	0.01		
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone		0.05		0.57		0.17	0.11	0.41	0.16	
2-Chlorotoluene										
Acetone	2 @							1.9 @		
Benzene	1.1 @	0.2	0.72	0.87		1.3 @	0.57	0.45	0.75	0.09
Bromomethane			0.09							
Carbon Disulfide						0.08	0.06		0.06	
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane		0.13	0.55			0.04	0.03			
Dichlorodifluoromethane										
Ethylbenzene	0.25	0.02	0.12	0.12		0.2	0.04	0.06	0.08	
Isopropylbenzene						0.01				
Naphthalene			0.23			0.16			0.06	
Styrene			0.04			0.08				
Tetrachloroethene		0.03	0.04							0.05
Toluene	1.4 @	0.21	0.69			1 @	0.34	0.58	0.53	
Total Xylenes	1.24 @	0.1			0.23			0.39	0.13	
Trichloroethene			0.18							0.05
Trichlorofluoromethane				2.8 NC			0.1	0.18		0.06
Vinyl Chloride		1.3 @	61 J	51 J	120 @		1.9 @	0.34		2.2 @
cis-1,2-dichloroethene		0.04	0.58	0.46			0.13	0.25	0.05	0.48
m & p-Xylenes	0.98		0.16			0.25	0.09	0.12	0.08	
n-Butylbenzene										
n-Propylbenzene			0.02			0.03				
o-Xylene	0.26	0.02	0.07			0.14	0.04	0.05	0.04	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene			0.17							

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG141794 SGG1417JE**R 10/26/94	SG141794 SGG1417JE*R 10/26/94	SG141894 SGG1418JE 11/29/94	SG141894 SGG1418JE* 11/29/94	SG141894 SGG1418JE** 11/29/94	SG141994 SGG1419JE 11/7/94	SG141994 SGG1419JE** 11/7/94	SG142094 SGG1420JE 11/7/94	SG142094 SGG1420JE** 11/7/94	SG142194 SGG1421JE 10/28/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane						0.15		0.27		
1,1-Dichloroethane						36 J	79 @	19 J	19 @	
1,1-Dichloroethene						236 J	2500 J @	102 J	280 @	
1,2,4-Trimethylbenzene			0.02			0.01		0.01		0.01
1,2-Dichloroethane										
1,3,5-Trimethylbenzene										
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone								0.18		0.05
2-Chlorotoluene										
Acetone	5.3 @	2.3								
Benzene		0.38	0.73	0.53		0.21		0.62		0.32
Bromomethane						0.09				
Carbon Disulfide								0.17		0.06
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane						2.6 @		9.5 J @		
Chloroform						0.16				
Chloromethane			0.35			1.5	3.2 @	0.61		0.05
Dichlorodifluoromethane										
Ethylbenzene			0.12	0.16		0.04		0.03		0.07
Isopropylbenzene										
Naphthalene										
Styrene										
Tetrachloroethene						8.3 J	27 @	3.2	5.7 @	
Toluene			2	2.7 @		0.29		0.58		0.18
Total Xylenes		0.19			0.43	0.7		0.08		
Trichloroethene			0.05			1.1 @		1.2 @		
Trichlorofluoromethane									59 NC	
Vinyl Chloride			30 J	14	12 @	45 J	34 @	20 J	7.4 @	
cis-1,2-dichloroethene			0.18			34 J	100 @	26 J	52 @	
m & p-Xylenes			0.31	0.5		0.05				
n-Butylbenzene										
n-Propylbenzene										0.04
o-Xylene			0.12	0.2		0.03				0.02
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene						50 J @		19 J	10 @	

TABLE-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG142294 SGG1422JE 11/10/94	SG142394 SGG1423JE 10/18/94	SG142494 SGG1424JE 10/19/94	SG142494 SGG1424JE* 10/19/94	SG142594 SGG1425JE*R 3/28/95	SG142694 SGG1426JE 10/21/94	SG142794 SGG1427JE 10/21/94	SG142794 SGG1427JE* 10/21/94	SG142794 SGG1427JE** 10/21/94	SG142894 SGG1428JE 10/25/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene										
1,2,4-Trimethylbenzene		0.02	0.01			0.02	0.02		1.4 NC	0.03
1,2-Dichloroethane										
1,3,5-Trimethylbenzene										
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone			0.23			0.07				
2-Chlorotoluene										
Acetone					0.98			0.9		0.26
Benzene	0.2		1.7	1.4 @	0.57	0.63	1 @	0.42		0.09
Bromomethane										
Carbon Disulfide			0.14				0.13			
Carbon Tetrachloride										
Chlorobenzene	0.02									
Chloroethane										
Chloroform										
Chloromethane			0.2		0.37		0.06	1.2	3.2 @	
Dichlorodifluoromethane										
Ethylbenzene	0.01	0.08	0.11	0.2		0.04	0.07	0.13		0.05
Isopropylbenzene										
Naphthalene										0.07
Styrene										
Tetrachloroethene						0.02	0.22			0.27
Toluene	0.12		1 @			0.43	0.79			
Total Xylenes				0.06		0.17	0.14			0.18
Trichloroethene					0.5		0.15			
Trichlorofluoromethane					3.7 @					
Vinyl Chloride	0.43		2.8 J	5.3 @	2.6 @		29 J	5.1	10 @	
cis-1,2-dichloroethene			0.03		0.58		0.46			
m & p-Xylenes		0.05	0.14			0.07	0.11			0.13
n-Butylbenzene										
n-Propylbenzene										0.01
o-Xylene		0.01	0.05	0.13		0.02	0.03			0.05
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene										

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG142994 SGG1429JE 10/25/94	SG143094 SGG1430JE 10/25/94	SG143194 SGG1431JE 10/19/94	SG143194 SGG1431JE* 10/19/94	SG143194 SGG1431JE** 10/19/94	SG143294 SGG1432JE 10/18/94	SG143294 SGG1432JE* 10/18/94	SG143294 SGG1432JE**R 10/26/94
Test Group:GC/MS Units:µg/L								
1,1,1-Trichloroethane			0.03			0.34		
1,1-Dichloroethane			0.16			0.3		
1,1-Dichloroethene								
1,2,4-Trimethylbenzene	0.03	0.07	0.03		3.5 NC	0.06		
1,2-Dichloroethane								
1,3,5-Trimethylbenzene		0.02	0.01			0.02		
1,3-Dichlorobenzene								
1,3-Dichloropropane								
2-Butanone								
2-Chlorotoluene								
Acetone	0.1							
Benzene	0.04	0.12	0.65	0.81		0.87	0.55	
Bromomethane								
Carbon Disulfide						0.05		
Carbon Tetrachloride								
Chlorobenzene								
Chloroethane			0.26					
Chloroform								
Chloromethane								
Dichlorodifluoromethane								
Ethylbenzene		0.06	0.15	0.17	4.5 NC	0.24	0.38	
Isopropylbenzene			0.02			0.04		
Naphthalene		0.21	0.06					
Styrene								
Tetrachloroethene		0.02	0.1			0.08		
Toluene		0.3	0.87			0.68		
Total Xylenes		0.25	0.47	0.71	16.1 NC	0.44	0.67	
Trichloroethene						0.06		
Trichlorofluoromethane						0.36	55 J NC	
Vinyl Chloride			19 J	41 J	9.3 @	29 J	23 J @	
cis-1,2-dichloroethene			0.06			0.19		
m & p-Xylenes		0.22	0.3	0.46	14 NC	0.33	0.51	
n-Butylbenzene								
n-Propylbenzene			0.01			0.03		
o-Xylene	0.01	0.03	0.17	0.25	4.1 NC	0.11	0.16	
p-Isopropyltoluene								
s-Butylbenzene								
trans-1,2-Dichloroethene								

TA[illegible]-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG143394 SGG1433JE 10/18/94	SG143394 SGG1433JE* 10/18/94	SG143394 SGG1433JE** 10/18/94	SG143494 SGG1434JE 11/10/94	SG143594 SGG1435JE 11/10/94	SG143694 SGG1436JE 11/10/94	SG143794 SGG1437JE 11/11/94	SG143794 SGG1437JE* 11/11/94	SG143894 SGG1438JE 11/11/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1-Dichloroethane	0.13								
1,1-Dichloroethene	0.24								
1,2,4-Trimethylbenzene	0.24	0.37		0.01	0.02		0.02		0.02
1,2-Dichloroethane									
1,3,5-Trimethylbenzene	0.11	0.17							
1,3-Dichlorobenzene									
1,3-Dichloropropane									
2-Butanone				0.07	0.08	0.08	0.14		0.06
2-Chlorotoluene									
Acetone			4.8 NC		0.56	0.29		2 NC	
Benzene	1.2	1.6	4.3 @	0.23	0.43	0.19	1.1 @	0.67	0.7
Bromomethane									
Carbon Disulfide	0.05				0.05	0.08	0.2		0.08
Carbon Tetrachloride									
Chlorobenzene							0.01		
Chloroethane									
Chloroform									
Chloromethane	0.35	1.3 NC		0.1			0.04		
Dichlorodifluoromethane									
Ethylbenzene	3.4 J	4.2	7.9 @	0.03	0.05	0.02	0.07		0.05
Isopropylbenzene	0.05								
Naphthalene	0.08								
Styrene	0.06								
Tetrachloroethene	0.03								
Toluene	0.93			0.32	0.63	0.19	7.3 J	9.1 @	2.4 @
Total Xylenes	1.51	1.87 @		0.06	0.11		0.19		0.07
Trichloroethene	0.15								
Trichlorofluoromethane									
Vinyl Chloride	8.4 J	9.9	31 @	1.6 @	0.16				
cis-1,2-dichloroethene	0.31	0.52		0.06	0.07				
m & p-Xylenes	1.2	1.5 @		0.04	0.06		0.15		0.05
n-Butylbenzene	0.03								
n-Propylbenzene	0.06				0.01				
o-Xylene	0.31	0.37		0.02	0.05	0.01	0.04		0.02
p-Isopropyltoluene									
s-Butylbenzene	0.03								
trans-1,2-Dichloroethene									

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location:	SG143994	SG143994	SG144094	SG144194	SG144194	SG144294	SG144394	SG144494	SG144494	SG144594
Sample Identification Number:	SGG1439JE	SGG1439JE*	SGG1440JE	SGG1441JE	SGG1441JE*	SGG1442JE	SGG1443JE	SGG1444JE	SGG1444JE*	SGG1445JE
Date Sampled:	11/11/94	11/11/94	11/11/94	11/11/94	11/11/94	11/11/94	11/14/94	11/14/94	11/14/94	10/28/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane							0.03	0.13		
1,1-Dichloroethene				0.06	0.53		0.1	1.8	2.5 @	
1,2,4-Trimethylbenzene	0.01		0.02	0.01		0.02	0.02	0.02		
1,2-Dichloroethane										
1,3,5-Trimethylbenzene										
1,3-Dichlorobenzene										
1,3-Dichloropropane	0.05									
2-Butanone	0.1		0.12	0.06		0.07	0.04	0.1		
2-Chlorotoluene										
Acetone	1.1	1.1 @								
Benzene	0.26		0.52	0.31	0.46	0.73	0.41	0.59	0.48	0.1
Bromomethane										
Carbon Disulfide			0.05					0.14		
Carbon Tetrachloride							1.4 @			
Chlorobenzene										
Chloroethane										
Chloroform							0.67	0.09		
Chloromethane							0.08	0.16		
Dichlorodifluoromethane					0.66		0.17			
Ethylbenzene	0.05		0.04	0.02		0.19	0.06	0.08		0.02
Isopropylbenzene						0.02				
Naphthalene										
Styrene						0.05				
Tetrachloroethene						0.32	1.8 @	0.5	0.73	
Toluene	4.7 J	5.4 @	1.9 @	0.26		2.8 @	0.45	1.6	1.9 @	
Total Xylenes	0.18		0.08			0.35	0.1	0.13		
Trichloroethene							0.04	0.13		
Trichlorofluoromethane					12 NC	0.08				
Vinyl Chloride	0.15			4.2 J	5.2 @			14 J	11 @	
cis-1,2-dichloroethene				0.11	0.95		0.09	0.79	1.2 NC	
m & p-Xylenes	0.14		0.06			0.24	0.07	0.09		
n-Butylbenzene										
n-Propylbenzene						0.02		0.01		
o-Xylene	0.04		0.02	0.01		0.11	0.03	0.04		0.02
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene								0.08		

TA[illegible]-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG144694 SGG1446JE 11/7/94	SG144694 SGG1446JE* 11/7/94	SG144794 SGG1447JE 11/7/94	SG144794 SGG1447JE** 11/7/94	SG144894 SGG1448JE 10/28/94	SG144894 SGG1448JE* 10/28/94	SG144894 SGG1448JE** 11/7/94	SG144994 SGG2094JER 2/17/95	SG145094 SGG1450JE 11/11/94	SG145194 SGG1451JE 11/11/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane					1.4 @	0.95				
1,1-Dichloroethane	0.21				2.2	1.6 @				0.04
1,1-Dichloroethene	2.8	2.8 @	2.1	5 @	83 J	47 J @				
1,2,4-Trimethylbenzene	0.04		0.02		0.04			0.05	0.02	0.01
1,2-Dichloroethane										
1,3,5-Trimethylbenzene	0.01				0.02			0.02		
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone	0.1		2.1	6.9 @	0.06			0.14	0.07	0.06
2-Chlorotoluene										
Acetone		0.53	2.7	4.1 @				0.92	0.37	
Benzene	0.28		0.31		0.14			0.43	0.17	0.48
Bromomethane					0.09					
Carbon Disulfide								0.06	0.05	0.05
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane	0.07	0.66	0.79		0.93	2.1 NC		0.04	0.12	
Dichlorodifluoromethane										
Ethylbenzene	0.08		0.09		0.07			0.06	0.03	0.06
Isopropylbenzene										
Naphthalene										
Styrene										
Tetrachloroethene	5.4 J	5.8 @	17 J	100 @	11 J	41 J	13 @	0.11	0.03	
Toluene	0.36		0.44		0.55			0.27	1.4 @	0.79
Total Xylenes	0.17		0.23		0.33			0.16	0.1	0.11
Trichloroethene	1.8	1.6 @	51 J	540 J @	4.5 J	4.9 @		0.06		
Trichlorofluoromethane										
Vinyl Chloride	1.6 @	0.86			6 J	1.9 @				3.1 @
cis-1,2-dichloroethene	3.9	4.3 @	42 J	130 @	44 J	42 J @				
m & p-Xylenes	0.11		0.16		0.23			0.12	0.08	0.08
n-Butylbenzene										
n-Propylbenzene	0.02		0.01		0.01			0.01		
o-Xylene	0.06		0.07		0.1			0.04	0.02	0.03
p-Isopropyltoluene										
s-Butylbenzene	0.01									
trans-1,2-Dichloroethene			0.4		3.7	2	51 @			

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG145294 SGG2095JE**R 3/13/95	SG145394 SGG1453JE 10/21/94	SG145394 SGG1453JE* 10/21/94	SG145494 SGG1454JE 10/25/94	SG145594 SGG1455JE 10/25/94	SG145694 SGG1456JE 10/26/94	SG145794 SGG1457JE 10/14/94	SG145894 SGG1458JE 10/17/94	SG145894 SGG1458JE* 10/17/94	SG145894 SGG1458JE**R 10/26/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane		0.86	0.39					0.07		
1,1-Dichloroethane		0.07								
1,1-Dichloroethene										
1,2,4-Trimethylbenzene		0.05		0.03	0.04	0.03	0.03	0.11	0.23	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene		0.02						0.07	0.14	
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone		0.17					0.09			
2-Chlorotoluene										
Acetone			0.81	0.29						
Benzene		0.47	0.41	0.14	0.33	1.1 @	0.34	1 @	0.71	
Bromomethane										
Carbon Disulfide								0.05		
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane										
Dichlorodifluoromethane										
Ethylbenzene		0.13	0.15	0.07	0.09	0.25	0.06	0.12	0.17	
Isopropylbenzene		0.01				0.02		0.03		
Naphthalene		0.28		0.17	0.15	0.19	0.04			
Styrene		0.08				0.14		0.04		
Tetrachloroethene	11 @	3.6 J	2.6 @	0.04	0.12		1.8 @	18 J	59 J @	
Toluene		0.51		0.13	0.29	0.68	0.22	0.75		
Total Xylenes		0.29		0.11	0.17	0.24	0.13	0.36	0.64	
Trichloroethene	10 @	0.56	0.39	0.17				3.2 J	3.6 @	
Trichlorofluoromethane										
Vinyl Chloride	31 @	0.51		3.7 @				0.75		
cis-1,2-dichloroethene		2.2 J	1.1 @	0.37				1.7	2 @	
m & p-Xylenes		0.19		0.07	0.12	0.16	0.1	0.22	0.42	
n-Butylbenzene										
n-Propylbenzene		0.02		0.01		0.04	0.02			
o-Xylene		0.1	0.17	0.04	0.05	0.08	0.03	0.14	0.22	
p-Isopropyltoluene										
s-Butylbenzene						0.01		0.03		
trans-1,2-Dichloroethene										

TA[illegible]-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG145994 SGG1459JE 10/17/94	SG146094 SGG1460JE 10/18/94	SG146094 SGG1460JE**R 10/26/94	SG146194 SGG1461JE 10/19/94	SG146194 SGG1461JE** 10/19/94	SG146294 SGG1462JE 11/11/94	SG146394 SGG2096JE*R 2/17/95	SG146494 SGG1464JE 10/28/94	SG146594 SGG1465JE 11/7/94	SG146594 SGG1465JE** 11/7/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane							0.54		0.54	
1,1-Dichloroethane		0.08		0.06		0.04			1.7 @	
1,1-Dichloroethene		0.06		0.77		0.14	2.7 @		63 J	72 @
1,2,4-Trimethylbenzene	0.06	0.03		0.02		0.05			0.02	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene	0.02					0.01				
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone	0.07			0.19		0.09				
2-Chlorotoluene										
Acetone	0.24					0.55				
Benzene	0.09	0.2		1.4 @		0.41	0.83	0.54	0.11	
Bromomethane									0.12	
Carbon Disulfide		0.05		0.06		0.16				
Carbon Tetrachloride							8.4 @			
Chlorobenzene										
Chloroethane										
Chloroform	0.05						2.8 @			
Chloromethane		0.06				0.04		0.05	3.4 @	
Dichlorodifluoromethane		1.1 @								
Ethylbenzene	0.03	0.04		0.1		0.08			0.66	
Isopropylbenzene										
Naphthalene		0.2								
Styrene									0.09	
Tetrachloroethene	1.9 @	0.13					1.5 @		854 J	300 @
Toluene		0.3		1.6 @		2.5 @		0.11	0.37	
Total Xylenes	0.07	0.1		0.18		0.23			1.41 @	
Trichloroethene	0.03			0.05					17 J	29 @
Trichlorofluoromethane							38 @			13 NC
Vinyl Chloride		27 J	30 @	48 J	91 @	0.13			5.9 J @	
cis-1,2-dichloroethene		0.04		1.5 @		0.04			39 J	70 @
m & p-Xylenes	0.05	0.07		0.13		0.16			1.1 @	
n-Butylbenzene										
n-Propylbenzene	0.01	0.01				0.01				
o-Xylene	0.02	0.03		0.05		0.07		0.01	0.31	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene				0.07					3 @	

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG146694 SGG1466JE 11/7/94	SG146694 SGG1466JE** 11/7/94	SG146794 SGG1467JE 10/28/94	SG146794 SGG1467JE* 10/28/94	SG146794 SGG1467JE**R 11/7/94	SG146894 SGG1468JE 10/28/94	SG146994 SGG1469JE 10/28/94	SG147094 SGG1470JE 10/28/94	SG147194 SGG1471JE 10/28/94	SG147294 SGG1472JE 10/26/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane	1.3 @		1.3 @	0.59						
1,1-Dichloroethane	2.1	3.4 @	2.3 @	0.68					0.1	
1,1-Dichloroethene	65 J	88 @	72 J	29	17 @			0.09	0.26	
1,2,4-Trimethylbenzene			0.05			0.02			0.01	0.03
1,2-Dichloroethane	0.07									
1,3,5-Trimethylbenzene			0.02							
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone			0.12	0.58		0.07	0.15		0.16	
2-Chlorotoluene										
Acetone						0.26				
Benzene	0.08		0.19			0.13	0.29	0.38	0.39	1.1 @
Bromomethane	0.05									
Carbon Disulfide									0.05	0.08
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane			0.12							
Chloroform	0.04									
Chloromethane	2.1 @		1.8	2 @						
Dichlorodifluoromethane										
Ethylbenzene	0.04		0.06	0.18		0.03	0.04	0.01	0.07	
Isopropylbenzene			0.01							
Naphthalene										
Styrene										
Tetrachloroethene	8 J	18 @	7.1 J	8.3 @		0.02				
Toluene	0.13		0.3				0.18	0.18	0.54	0.7
Total Xylenes	0.07		0.18	0.66		0.06	0.06		0.18	
Trichloroethene	1.6 @		2.3	1.6	26 @					
Trichlorofluoromethane	5 J	6.8 @								
Vinyl Chloride	16 J @		5.4 J	1.3 @					1.9 @	
cis-1,2-dichloroethene	28 J	42 @	18 J	10	4.4 @				0.11	
m & p-Xylenes	0.05		0.11	0.49		0.04	0.04		0.14	
n-Butylbenzene										
n-Propylbenzene			0.02							0.02
o-Xylene	0.02		0.07	0.17		0.02	0.02		0.04	0.01
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene			3.3	1.1 @						

TA[illegible]-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG147394 SGG1473JE 10/26/94	SG147494 SGG1474JE 10/17/94	SG147494 SGG1474JE* 10/17/94	SG147594 SGG2097JE*R 2/17/95	SG147694 SGG1476JE 10/17/94	SG147694 SGG1476JE**R 10/20/94	SG147794 SGG1477JE 10/17/94	SG147794 SGG1477JE**R 10/20/94	SG147894 SGG1478JE 10/17/94	SG147894 SGG1478JE**R 10/20/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane					0.21		0.1			
1,1-Dichloroethene				1.1 @	1.5 @					
1,2,4-Trimethylbenzene	0.04	0.09	0.14	0.3	0.21		0.06		0.04	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene		0.03		0.11			0.02		0.02	
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone		0.1			0.09		0.09		0.11	
2-Chlorotoluene										
Acetone	0.6	0.92								
Benzene	0.4	0.51	0.62	1.4 @	0.38		0.7		0.82	
Bromomethane										
Carbon Disulfide		0.05							0.24	
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane				0.9						
Dichlorodifluoromethane										
Ethylbenzene		0.08	0.16	0.21	0.07	2.5 NC	0.12	3 NC	0.1	
Isopropylbenzene					0.05		0.02			
Naphthalene						13 NC	0.03			7 NC
Styrene										
Tetrachloroethene					0.04		0.11		0.42	
Toluene	0.3	0.49		1.1 @	0.77		1.5 @		0.59	
Total Xylenes		0.19			0.31		0.17	8.4 NC	0.3	
Trichloroethene										
Trichlorofluoromethane		0.18		1.5 @						
Vinyl Chloride		5.2 J	13 @	21 @	84 J	222 J @	67 J	66 @	78 J	98 @
cis-1,2-dichloroethene					0.46		0.08		0.38	
m & p-Xylenes		0.13			0.21	5.6 NC	0.13	7.3 NC	0.24	
n-Butylbenzene										
n-Propylbenzene	0.04	0.02					0.02		0.01	
o-Xylene		0.06	0.13	0.21	0.1		0.04	1.1 NC	0.06	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene					0.11					

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG147994 SGG1479JE 10/17/94	SG147994 SGG1479JE* 10/17/94	SG148094 SGG1480JE 10/14/94	SG148094 SGG1480JE* 10/14/94	SG148194 SGG1481JE 10/14/94	SG148194 SGG1481JE* 10/14/94	SG148294 SGG1482JE 10/14/94	SG148294 SGG1482JE* 10/14/94	SG148394 SGG1483JE 10/14/94	SG148394 SGG1483JE* 10/14/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene							0.09			
1,2,4-Trimethylbenzene	0.05		0.02		0.03		0.04		0.03	
1,2-Dichloroethane										
1,3,5-Trimethylbenzene	0.02						0.01			
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone			0.15		0.22		0.14		0.09	
2-Chlorotoluene										
Acetone				0.95						
Benzene	1.4	1.1 @	0.72	1.4 NC	0.62	1.1 NC	0.77	0.49	0.41	1.1 NC
Bromomethane										
Carbon Disulfide	0.07									
Carbon Tetrachloride										
Chlorobenzene										
Chloroethane										
Chloroform										
Chloromethane			0.05	0.36	0.04		0.04			
Dichlorodifluoromethane										
Ethylbenzene	0.17	0.21	0.06	0.19	0.12	0.2	0.09		0.06	
Isopropylbenzene	0.01									
Naphthalene							0.16		0.05	
Styrene	0.06						0.04			
Tetrachloroethene	8.2 J	12 @	12 J	21 @	7.9 J	11 @	12 J	15 @	0.18	
Toluene	1 @		0.44		0.47		0.46		0.46	
Total Xylenes	0.34		0.16		0.27		0.15		0.12	
Trichloroethene	1.7	2.3 @	0.06				6.1 J	6.1 @	0.1	
Trichlorofluoromethane			0.28							
Vinyl Chloride							6.4 J	5.2 @	9.7 J	8.3 @
cis-1,2-dichloroethene	1.1	1.3 @					2.4 J	2.2 @	0.13	
m & p-Xylenes	0.2		0.12		0.18		0.1		0.07	
n-Butylbenzene										
n-Propylbenzene	0.03				0.01		0.02		0.01	
o-Xylene	0.14	0.21	0.04		0.09	0.13	0.05		0.05	
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene							0.39			

TA[illegible]E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG210194 SGG2101JE* 3/3/95	SG210294 SGG2102JE* 3/3/95	SG210394 SGG2103JE 3/3/95	SG210494 SGG2104JE*R 3/13/95	SG210594 SGG2105JE** 3/1/95	SG210694 SGG2106JE* 3/3/95	SG210794 SGG2107JE 3/3/95	SG210894 SGG2108JE 3/3/95	SG210994 SGG2109JE 3/3/95	SG211094 SGG2110JE 3/3/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene										
1,2,4-Trimethylbenzene	0.14	0.12	0.02	0.14			0.31	0.03	0.11	0.07
1,2-Dichloroethane										
1,3,5-Trimethylbenzene							0.16	0.01	0.05	0.03
1,3-Dichlorobenzene										
1,3-Dichloropropane										
2-Butanone			0.04							0.1
2-Chlorotoluene										
Acetone					3.1 @					
Benzene	0.33	0.8	0.37 B				.45 B	0.09	.31 B	.8 B
Bromomethane		1.3 @								
Carbon Disulfide										
Carbon Tetrachloride										
Chlorobenzene	1.5 @									
Chloroethane										
Chloroform										
Chloromethane	0.44									
Dichlorodifluoromethane										
Ethylbenzene	0.25	0.11	0.05				0.19	0.02	0.08	0.12
Isopropylbenzene							0.04		0.02	0.02
Naphthalene										
Styrene										
Tetrachloroethene	11 @		0.14				0.04			0.03
Toluene			0.27				3.1 @	0.11	0.33	0.72
Total Xylenes	0.94		0.09				0.77		0.27	0.25
Trichloroethene	0.9					3.9 @	1.5 @			0.09
Trichlorofluoromethane			1.7 @	76 J @	200 @					1.4 @
Vinyl Chloride		26 @		14 @	32 @	2.2 @	1.3 @			0.4
cis-1,2-dichloroethene						2.5 @	3 @			0.09
m & p-Xylenes	0.71		0.06				0.56		0.18	0.16
n-Butylbenzene										
n-Propylbenzene			0.01				0.06	0.01	0.04	0.03
o-Xylene	0.23	0.11	0.03				0.21	0.02	0.09	0.09
p-Isopropyltoluene							0.04			
s-Butylbenzene										
trans-1,2-Dichloroethene										

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location:	SG211194	SG211294	SG211394	SG211494	SG211594	SG211694	SG211994	SG212094	SG212194	SG212294	SG212394
Sample Identification Number:	SGG2111JE	SGG2112JE	SGG2113JE	SGG2114JE	SGG2115JE	SGG2116JE	SGG2119JE	SGG2120JE	SGG2121JE	SGG2122JE	SGG2123JE
Date Sampled:	3/6/95	3/6/95	3/6/95	3/6/95	3/6/95	3/1/95	2/27/95	2/27/95	2/27/95	2/27/95	2/27/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene	0.15	0.04	0.02	0.02	0.02			0.03		0.01	0.04
1,2-Dichloroethane											
1,3,5-Trimethylbenzene	0.08	0.01						0.01			0.01
1,3-Dichlorobenzene											
1,3-Dichloropropane											
2-Butanone	0.05	0.07		0.05		0.05					0.05
2-Chlorotoluene											
Acetone											
Benzene	.32 B	.53 B	.74 B	.63 B	.52 B	.51 B		0.32	0.1	0.22	0.28
Bromomethane		0.07				0.04					
Carbon Disulfide		0.04	0.09	0.15	0.09	0.07		0.04			
Carbon Tetrachloride											
Chlorobenzene											
Chloroethane											
Chloroform											
Chloromethane					.1 B		0.03	0.05	0.03	0.07	0.04
Dichlorodifluoromethane						0.04					
Ethylbenzene	0.12	0.07	0.07	0.07	0.08	0.12		0.02		0.01	0.03
Isopropylbenzene	0.04				0.01						
Naphthalene											0.04
Styrene											
Tetrachloroethene			0.07								
Toluene	0.56	0.5	1.1 @	0.43	0.36	1.3 @		0.11		0.14	0.24
Total Xylenes	0.47	0.13	0.15	0.13	0.11	0.5		0.08			0.08
Trichloroethene						0.28					
Trichlorofluoromethane						13 J @					
Vinyl Chloride	0.17	2.9 @			1.7 @						
cis-1,2-dichloroethene		0.08			0.08	0.2					
m & p-Xylenes	0.32	0.09	0.11	0.09	0.07	0.36		0.06			0.06
n-Butylbenzene											
n-Propylbenzene	0.06	0.01		0.01							
o-Xylene	0.15	0.04	0.04	0.04	0.04	0.14		0.02			0.02
p-Isopropyltoluene											
s-Butylbenzene											
trans-1,2-Dichloroethene											

TA[illegible]E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location:	SG212494	SG212594	SG212794	SG214194	SG214294	SG214394	SG214494	SG214594	SG214694	SG214794	SG214894
Sample Identification Number:	SGG2124JE	SGG2125JE	SGG2127JE	SGG2141JE	SGG2142JE	SGG2143JE	SGG2144JE	SGG2145JE*	SGG2146JE*	SGG2147JE**	SGG2148JE
Date Sampled:	2/27/95	2/27/95	2/27/95	3/9/95	3/9/95	3/9/95	3/9/95	3/8/95	3/9/95	3/9/95	3/16/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane				0.4			0.06	4.6 @	0.76		
1,1-Dichloroethane				0.23				2.2 @	1.8 @		
1,1-Dichloroethene				3.6 @	0.24	0.22	0.1	32 @	11 @	53 @	
1,2,4-Trimethylbenzene	0.03	0.02	0.02	0.04	0.03	0.06	0.06				0.07
1,2-Dichloroethane											
1,3,5-Trimethylbenzene				0.01	0.01	0.02	0.02				0.03
1,3-Dichlorobenzene											
1,3-Dichloropropane											
2-Butanone				0.06		0.07	0.1				0.16
2-Chlorotoluene											
Acetone	0.15								0.72	4.3 @	
Benzene	0.11		0.41	1 @	1 @	0.8	0.43	0.98	0.59		0.76
Bromomethane							0.06				
Carbon Disulfide					0.07	0.06					
Carbon Tetrachloride											
Chlorobenzene											
Chloroethane											
Chloroform											
Chloromethane		0.05	0.07	0.06	0.03		0.07	0.62	0.44		
Dichlorodifluoromethane											
Ethylbenzene	0.03	0.01	0.02	0.04	0.03	0.1	0.06				0.06
Isopropylbenzene											
Naphthalene							0.03				
Styrene											0.04
Tetrachloroethene				0.27	0.07	0.25	0.08	3.9 @	0.81	6.6 @	0.03
Toluene	0.11		0.22	0.42	1.1 @	2.2 @	2 @	3 @	1.5 @		1.3 @
Total Xylenes	0.06		0.05	0.12	0.11	0.27	0.22				0.18
Trichloroethene				0.51	0.11	0.1	0.07	13 @	3.3 @	5.9 @	
Trichlorofluoromethane				0.08							
Vinyl Chloride				0.09							
cis-1,2-dichloroethene				0.05				1.1 @	1 @		
m & p-Xylenes	0.04		0.04	0.09	0.08	0.2	0.16				0.13
n-Butylbenzene											
n-Propylbenzene				0.01		0.02	0.02				0.01
o-Xylene	0.02	0.01	0.01	0.03	0.03	0.07	0.06				0.05
p-Isopropyltoluene											
s-Butylbenzene											0.01
trans-1,2-Dichloroethene				0.14				1.4 @			

TABLE E-3
Soil Gas Detected Results
IHSS 117.2

Sample Location: Sample Identification Number: Date Sampled:	SG214994 SGG2149JE* 3/16/95	SG215094 SGG2150JE* 3/16/95	SG215194 SGG2151JE 3/16/95
Test Group:GC/MS Units:µg/L			
1,1,1-Trichloroethane			
1,1-Dichloroethane			
1,1-Dichloroethene			
1,2,4-Trimethylbenzene	0.14	0.14	0.03
1,2-Dichloroethane			
1,3,5-Trimethylbenzene	0.14	0.17	0.01
1,3-Dichlorobenzene		0.1	
1,3-Dichloropropane			
2-Butanone	0.42		0.19
2-Chlorotoluene	0.1		
Acetone	2.7 @	2.4 @	
Benzene	0.92	1.4 @	1.4 @
Bromomethane			
Carbon Disulfide			0.14
Carbon Tetrachloride			
Chlorobenzene		0.18	
Chloroethane			
Chloroform			
Chloromethane			0.04
Dichlorodifluoromethane			
Ethylbenzene	0.2	0.41	0.1
Isopropylbenzene	0.1	0.1	
Naphthalene			
Styrene			
Tetrachloroethene			
Toluene	8.4 @	17 @	2.9 @
Total Xylenes	0.94	1.45 @	0.24
Trichloroethene			
Trichlorofluoromethane			
Vinyl Chloride	15 @		
cis-1,2-dichloroethene	0.32		
m & p-Xylenes	0.68	1.1 @	0.18
n-Butylbenzene			
n-Propylbenzene	0.15	0.17	0.01
o-Xylene	0.26	0.35	0.06
p-Isopropyltoluene			
s-Butylbenzene			
trans-1,2-Dichloroethene			

T[illegible]E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG148494 SGG1484JE 11/2/94	SG148594 SGG1485JE 11/2/94	SG148694 SGG1486JE 11/2/94	SG148794 SGG1487JE 2/22/95	SG148894 SGG1488JE 1/25/95	SG148994 SGG1489JE 1/25/95	SG149094 SGG1490JE 1/25/95	SG149194 SGG1491JE 1/25/95	SG149294 SGG1492JE 1/23/95	SG149394 SGG1493JE 1/24/95
Test Group:GC/MS Units:µg/L												
1,1,1-Trichloroethane	16	7	0.15	0.42	0.31							
1,1,2,2-Tetrachloroethane	1	0										
1,1,2-Trichloroethane	2	0										
1,1-Dichloroethane	25	6	0.58	0.2								
1,1-Dichloroethene	19	9	3.2 @	3.1 @								
1,2,4-Trimethylbenzene	54	4	0.07	0.03	0.01		0.02	0.03	0.03	0.02		
1,3,5-Trimethylbenzene	28	2	0.03	0.01					0.01			
2-Butanone	29	0	0.07				0.09					
Acetone	18	6		0.21	0.13							
Benzene	73	7	0.31	0.07	0.05	0.49	0.61	0.04	0.39	0.21	0.12	0.46
Bromomethane	4	0				0.13						
Carbon Disulfide	25	0	0.07			0.06	0.09		0.06	0.13	0.04	
Chlorobenzene	1	1										
Chloroethane	6	2										
Chloroform	1	0										
Chloromethane	31	0			0.05	0.06	0.34	0.04		0.11		0.03
Dichlorodifluoromethane	3	1				0.06						
Ethylbenzene	61	3	0.11	0.08	0.01	0.03	0.06	0.01	0.06	0.03		0.05
Isopropylbenzene	14	0	0.02									
Methylene Chloride	1	0										
Naphthalene	14	0						0.07				0.03
Styrene	3	0										
Tetrachloroethene	40	6	0.9	1.5 @	0.11	0.02		0.08	0.14	0.04		
Toluene	56	12	0.45	0.96		0.32	0.44		0.25	0.24		0.3
Total Xylenes	40	6	0.32	0.34			0.16					
Trichloroethene	23	4	0.94	0.22								
Trichlorofluoromethane	16	8		0.23	0.33			3 @			3.6 @	
Vinyl Chloride	30	29	2 @	4 @								
cis-1,2-dichloroethene	32	10	0.25	0.06								
m & p-Xylenes	40	5	0.2	0.26			0.12					
n-Propylbenzene	26	1	0.03						0.01			
o-Xylene	57	3	0.12	0.08	0.01		0.04	0.01	0.03	0.02		0.02
p-Isopropyltoluene	4	0										
s-Butylbenzene	3	0										
trans-1,2-Dichloroethene	11	0	0.13	0.1								

TABLE E-3
Soil Gas Detected Results
IHSS 158

Sample Location:	SG149494	SG149594	SG149694	SG149794	SG149894	SG149994	SG150094	SG150194	SG150294	SG150394	SG150494
Sample Identification Number:	SGG1494JE	SGG1495JE	SGG1496JE	SGG1497JE	SGG1498JE	SGG1499JE	SGG1500JE*	SGG1501JE	SGG1502JE	SGG1503JE**	SGG1504JE
Date Sampled:	1/25/95	1/25/95	2/22/95	2/20/95	11/2/94	11/2/94	11/2/94	11/2/94	2/20/95	2/20/95	1/25/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane					0.66			0.03	0.09		
1,1,2,2-Tetrachloroethane											
1,1,2-Trichloroethane											
1,1-Dichloroethane							1.8 @				
1,1-Dichloroethene					0.69		1 @		0.07		
1,2,4-Trimethylbenzene				0.05	0.02	0.03		0.01	0.01		0.1
1,3,5-Trimethylbenzene				0.01							0.03
2-Butanone			0.04	0.1	0.09	0.13					
Acetone										5.9 @	
Benzene	0.24	0.25	0.23	0.42	0.76	0.6	0.84	0.08	0.61		0.31
Bromomethane											0.09
Carbon Disulfide				0.05	0.1				0.07		
Chlorobenzene											
Chloroethane											
Chloroform											
Chloromethane	0.04	0.04	0.08	0.11	0.44						0.09
Dichlorodifluoromethane			0.06								
Ethylbenzene	0.02	0.03	0.03	0.05	0.07	0.08		0.03	0.02		0.02
Isopropylbenzene											
Methylene Chloride									0.12		
Naphthalene											
Styrene											
Tetrachloroethene			0.02		0.69			0.02	0.03		
Toluene		0.19	0.11	0.23	0.47	0.47			0.3	140 @	0.16
Total Xylenes				0.11	0.16	0.17		0.06			
Trichloroethene					0.04						
Trichlorofluoromethane		3.4 @		4 @							
Vinyl Chloride							14 @				
cis-1,2-dichloroethene											
m & p-Xylenes				0.08	0.09	0.12		0.04			
n-Propylbenzene				0.01	0.02	0.01					0.02
o-Xylene	0.02	0.01		0.03	0.07	0.05		0.02	0.01		0.02
p-Isopropyltoluene											
s-Butylbenzene											
trans-1,2-Dichloroethene											

TABLE-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG150594 SGG1505JE 1/23/95	SG150694 SGG1506JE 1/25/95	SG150794 SGG1507JE* 2/20/95	SG150894 SGG1508JER 3/15/95	SG150994 SGG1509JER 3/15/95	SG151094 SGG1510JER 3/15/95	SG151294 SGG1512JE* 2/20/95	SG151394 SGG1513JE** 3/28/95	SG151494 SGG1514JE 11/2/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane									
1,1-Dichloroethane							0.72		
1,1-Dichloroethene									
1,2,4-Trimethylbenzene	0.02	0.01		0.04		0.02			0.02
1,3,5-Trimethylbenzene				0.02					
2-Butanone		0.05		0.04	0.09				
Acetone				0.19			1.6 @		
Benzene	0.32	0.61	0.53	0.14	0.53	0.76	0.46		0.05
Bromomethane									
Carbon Disulfide	0.04	0.05			0.08	0.09			
Chlorobenzene									
Chloroethane									
Chloroform									
Chloromethane		0.05		0.04	0.06	0.04			
Dichlorodifluoromethane									
Ethylbenzene	0.03	0.02		0.05	0.04	0.07			0.02
Isopropylbenzene				0.01					
Methylene Chloride									
Naphthalene				0.39	0.09	0.06			
Styrene									
Tetrachloroethene			0.34	0.04		0.03	0.27		0.02
Toluene	0.21	0.18		0.13	0.26	0.41			
Total Xylenes				0.1		0.06			
Trichloroethene			15 @	2.9 @			0.32		
Trichlorofluoromethane								130 @	
Vinyl Chloride							13 @	92 @	
cis-1,2-dichloroethene							0.38		
m & p-Xylenes				0.06		0.04			
n-Propylbenzene									
o-Xylene	0.02	0.02		0.04	0.01	0.02			0.01
p-Isopropyltoluene									
s-Butylbenzene									
trans-1,2-Dichloroethene									

TABLE E-3
Soil Gas Detected Results
IHSS 158

Sample Location:	SG151594	SG151594	SG151694	SG151694	SG151794	SG151894	SG151994	SG152194	SG152294	SG152394
Sample Identification Number:	SGG1515JE	SGG1515JE**	SGG1516JE	SGG1516JE**	SGG1517JE*	SGG1518JER	SGG1519JE	SGG1521JE	SGG1522JE	SGG1523JE
Date Sampled:	11/1/94	11/1/94	11/1/94	11/1/94	2/20/95	3/15/95	2/20/95	2/20/95	2/22/95	1/24/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane					4.5 @					
1,1,2,2-Tetrachloroethane										
1,1,2-Trichloroethane										
1,1-Dichloroethane	0.29		0.14		0.48					
1,1-Dichloroethene			0.13		17 @					
1,2,4-Trimethylbenzene	0.05		0.02			0.05	0.06	0.05		0.02
1,3,5-Trimethylbenzene	0.01					0.01	0.02	0.01		
2-Butanone	0.12		0.08				0.08		0.05	
Acetone					0.61	0.11		0.14	0.11	
Benzene	0.27		0.34		0.37	0.08	0.32			0.37
Bromomethane										
Carbon Disulfide			0.07				0.04			
Chlorobenzene										
Chloroethane	0.35									
Chloroform										
Chloromethane			0.06			0.06	0.04			
Dichlorodifluoromethane										
Ethylbenzene	0.05		0.04			0.04	0.05	0.02		0.02
Isopropylbenzene										
Methylene Chloride										
Naphthalene						0.03				0.17
Styrene										
Tetrachloroethene			0.44		2.7 @	0.02	0.38	0.03		
Toluene	2 @		0.39			0.35	0.26			0.18
Total Xylenes	0.12		0.09			0.15	0.16			
Trichloroethene			0.97		0.39		0.04	0.33		
Trichlorofluoromethane										0.29
Vinyl Chloride	62 J	160 @	59 J	126 @				0.12		
cis-1,2-dichloroethene	0.15		17 J	32 @				0.04		
m & p-Xylenes	0.09		0.06			0.11	0.12			
n-Propylbenzene	0.01					0.01	0.01			
o-Xylene	0.03		0.03			0.04	0.04	0.02		
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene	0.1		0.25		0.59					

TA[illegible]E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG152494 SGG1524JE 10/31/94	SG152494 SGG1524JE* 10/31/94	SG152594 SGG1525JE 10/31/94	SG152594 SGG1525JE* 10/31/94	SG152694 SGG1526JE 11/1/94	SG152794 SGG1527JE 10/31/94	SG152894 SGG1528JE 11/1/94	SG152994 SGG1529JE 11/1/94	SG153094 SGG1530JE 2/22/95	SG153194 SGG1531JE 2/22/95	SG153294 SGG1532JE 1/25/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	14 J	22 @					0.04	0.09			
1,1,2,2-Tetrachloroethane											
1,1,2-Trichloroethane											
1,1-Dichloroethane	0.44	0.42				0.34	3.6 @	0.06			
1,1-Dichloroethene	0.37	0.52	0.17			0.39	0.31				
1,2,4-Trimethylbenzene	0.02	0.13	0.03		0.05	0.06	0.03	0.05			
1,3,5-Trimethylbenzene			0.01		0.02	0.02		0.02			
2-Butanone					0.08	0.09					
Acetone		0.87									
Benzene	0.3		0.19	0.43	0.19	0.38	0.58	0.04	0.29	0.33	0.18
Bromomethane							0.09				
Carbon Disulfide	0.04										
Chlorobenzene											
Chloroethane	0.15		0.11			1.7 @	1.4 @				
Chloroform											
Chloromethane	0.03				0.24			0.38		0.05	
Dichlorodifluoromethane											
Ethylbenzene	0.04	0.29	0.03		0.05	0.05	0.06	0.02			0.03
Isopropylbenzene											
Methylene Chloride											
Naphthalene											
Styrene											
Tetrachloroethene	0.44	0.64						0.04	0.09		
Toluene	0.22		0.14		0.93	0.49	0.59		0.18	0.18	0.12
Total Xylenes	0.16	1.32 NC	0.11		0.22	0.15	0.12	0.07			
Trichloroethene	0.1								0.22	0.03	
Trichlorofluoromethane		6.2 NC	0.6			0.29					
Vinyl Chloride	4.8 J	3 @	32 J	35 @							
cis-1,2-dichloroethene	0.42	0.37	0.16			0.1			0.03		
m & p-Xylenes	0.13	1 NC	0.09		0.14	0.1	0.08	0.04			
n-Propylbenzene					0.01	0.02		0.01			
o-Xylene	0.03	0.32	0.02		0.08	0.05	0.04	0.03			0.01
p-Isopropyltoluene											
s-Butylbenzene											
trans-1,2-Dichloroethene			0.06			0.06					

TABLE E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG153394 SGG1533JE 2/22/95	SG153794 SGG1537JE 10/31/94	SG153894 SGG1538JE 11/2/94	SG153994 SGG1539JE 2/22/95	SG154094 SGG1540JE 1/25/95	SG154194 SGG1541JE 1/23/95	SG154294 SGG1542JER 2/22/95	SG154394 SGG1543JE 11/2/94	SG154494 SGG1544JE 10/31/94	SG154594 SGG1545JE 10/31/94	SG154694 SGG1546JE 11/2/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane							0.04				
1,1,2,2-Tetrachloroethane											
1,1,2-Trichloroethane											
1,1-Dichloroethane		0.05	0.11								
1,1-Dichloroethene			0.07								
1,2,4-Trimethylbenzene		0.03	0.02					0.9	0.08	0.02	0.02
1,3,5-Trimethylbenzene		0.01	0.01					0.62	0.03		
2-Butanone			0.06		0.06				0.17	0.1	0.08
Acetone	0.23			0.04							
Benzene	0.09	0.69	0.38		0.33	0.56	0.05	0.18	0.68	0.66	0.28
Bromomethane											
Carbon Disulfide			0.04						0.13		0.14
Chlorobenzene											
Chloroethane											
Chloroform											
Chloromethane				0.03		0.05				0.04	
Dichlorodifluoromethane											
Ethylbenzene		0.1	0.07		0.01	0.02		0.06	0.12	0.09	0.05
Isopropylbenzene			0.01					0.03		0.01	
Methylene Chloride											
Naphthalene			0.04			0.12				0.04	
Styrene										0.06	
Tetrachloroethene	0.1					0.04					
Toluene		1 @	0.49		0.16	0.43		0.16	0.6	0.42	0.18
Total Xylenes		0.16	0.1					0.28	0.23	0.12	0.08
Trichloroethene	0.07			0.04			0.04				
Trichlorofluoromethane						1.3 @				0.36	
Vinyl Chloride											
cis-1,2-dichloroethene		0.04	0.04					0.08	0.04	0.05	
m & p-Xylenes		0.12	0.07					0.18	0.17	0.08	0.05
n-Propylbenzene			0.09					0.09	0.02	0.02	0.01
o-Xylene		0.04	0.03		0.01			0.1	0.06	0.04	0.03
p-Isopropyltoluene								0.07			
s-Butylbenzene											
trans-1,2-Dichloroethene											

T[illegible]E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG154794 SGG1547JE 11/2/94	SG155094 SGG1550JE 1/23/95	SG155394 SGG1553JE 10/31/94	SG155394 SGG1553JE* 10/31/94	SG155494 SGG1554JE 10/31/94	SG155494 SGG1554JE* 10/31/94	SG155594 SGG1555JE*R 3/28/95	SG155694 SGG1556JE 10/24/94	SG155694 SGG1556JE** 10/24/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane			0.51						
1,1,2-Trichloroethane									
1,1-Dichloroethane			0.07		0.04			0.06	
1,1-Dichloroethene									
1,2,4-Trimethylbenzene	0.03	0.03	2.6	5.7 @	0.18	0.12		0.05	
1,3,5-Trimethylbenzene			1.5	2.8 @	0.06			0.02	
2-Butanone		0.06	0.47	0.56	0.11			0.12	
Acetone	0.14			2 NC			1.3 @		
Benzene		0.65	1.8	1.8 @	0.7	0.41	0.49	0.95	340 NC
Bromomethane									
Carbon Disulfide			0.11		0.08				
Chlorobenzene									17 NC
Chloroethane			0.14						
Chloroform									
Chloromethane		0.1	0.05					0.03	
Dichlorodifluoromethane									
Ethylbenzene		0.08	3.2	5.6 @	0.1			0.2	
Isopropylbenzene		0.01	0.84	0.97	0.02			0.02	
Methylene Chloride									
Naphthalene	0.03		0.09		0.08				
Styrene			0.12		0.05				
Tetrachloroethene	0.16	0.11	0.27	0.23					
Toluene		0.37	8.2 J	12 @	0.55			1 @	
Total Xylenes			10.2	21.2 @	0.24			0.4	
Trichloroethene									
Trichlorofluoromethane		0.46					30 @		
Vinyl Chloride			18 J	18 @	5.3 J	4.7 @		30 J	30 @
cis-1,2-dichloroethene			0.59	0.57	0.18			0.44	
m & p-Xylenes			6.8	15 @	0.16			0.28	
n-Propylbenzene		0.02	0.88	1.4 NC	0.04			0.02	
o-Xylene		0.04	3.4	6.2 @	0.08			0.12	
p-Isopropyltoluene			0.25	0.45					
s-Butylbenzene			0.33		0.02				
trans-1,2-Dichloroethene									

TABLE E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG155794 SGG1557JE 10/24/94	SG155794 SGG1557JE** 10/24/94	SG155894 SGG1558JE 10/24/94	SG156194 SGG1561JE 1/23/95	SG156294 SGG1562JE 1/23/95	SG156494 SGG1564JE 10/24/94	SG156494 SGG1564JE* 10/24/94	SG156594 SGG1565JE 10/24/94	SG156594 SGG1565JE** 10/24/94
Test Group:GC/MS Units:µg/L									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane			0.11					0.06	
1,1-Dichloroethane	0.06					0.05			
1,1-Dichloroethene									
1,2,4-Trimethylbenzene	0.06	1.5 NC	0.05	0.07		0.03		0.03	1.3 NC
1,3,5-Trimethylbenzene	0.03		0.02	0.2				0.01	
2-Butanone	0.15		0.16	0.1					
Acetone							1.7 NC		
Benzene	0.41		0.61	0.7	0.07	1.6	1.4 @	1.6 @	
Bromomethane									
Carbon Disulfide	0.05					0.09		0.25	
Chlorobenzene									
Chloroethane									
Chloroform			0.06						
Chloromethane				0.05					
Dichlorodifluoromethane							1.1 NC		
Ethylbenzene	0.09	1.7 NC	0.15	0.69	0.06	0.04		0.08	
Isopropylbenzene	0.02		0.02	0.23					
Methylene Chloride									
Naphthalene					0.05				
Styrene									
Tetrachloroethene			0.51			0.09		0.03	
Toluene	0.65		0.54	0.44	0.22	1	1.7 @	1.3 @	
Total Xylenes	0.23	7.1 NC	0.52	1.19 @	0.24	0.09		0.15	
Trichloroethene			0.03			0.05		0.11	
Trichlorofluoromethane									
Vinyl Chloride	53 J	31 @				11 J	9.7 @	36 J	21 @
cis-1,2-dichloroethene	0.46			0.04		1.7	2 @	1.7 @	
m & p-Xylenes	0.15	5.4 NC	0.35	1.1 @	0.18	0.07		0.12	
n-Propylbenzene	0.02		0.02	0.22					
o-Xylene	0.08	1.7 NC	0.17	0.09	0.06	0.02		0.03	
p-Isopropyltoluene				0.02					
s-Butylbenzene				0.06					
trans-1,2-Dichloroethene	0.05								

TA[illegible]E-3
Soil Gas Detected Results
IHSS 158

Sample Location: Sample Identification Number: Date Sampled:	SG156694 SGG1566JE 10/31/94	SG156694 SGG1566JE** 10/31/94	SG215294 SGG2152JE* 3/16/95	SG215394 SGG2153JE** 3/16/95	SG215494 SGG2154JE** 3/16/95	SG215594 SGG2155JE* 3/16/95	SG215694 SGG2156JE 3/16/95
Test Group:GC/MS Units:µg/L							
1,1,1-Trichloroethane			15 @	4.9 @	54 @	1.4 @	
1,1,2,2-Tetrachloroethane							
1,1,2-Trichloroethane							
1,1-Dichloroethane	0.04		1.5 @	4 @	12 @	3.5 @	0.11
1,1-Dichloroethene	1.8 @		25 @	37 @	9 @	2.9 @	0.12
1,2,4-Trimethylbenzene	0.05		0.12				0.03
1,3,5-Trimethylbenzene	0.02						0.01
2-Butanone	0.06						
Acetone			0.85			3.6 @	
Benzene	0.51			2.9 @		0.45	0.37
Bromomethane	0.04						
Carbon Disulfide	0.14						
Chlorobenzene							
Chloroethane							
Chloroform							
Chloromethane	0.39						
Dichlorodifluoromethane							
Ethylbenzene	0.19					0.32	0.03
Isopropylbenzene	0.04						
Methylene Chloride							
Naphthalene							
Styrene							
Tetrachloroethene	0.03		18 @	2.4 @	5.7 @	1.2 @	0.41
Toluene	2.3 @					9.5 @	1.2 @
Total Xylenes	0.35					1.3 @	0.12
Trichloroethene	0.05		19 @		6.2 @		0.13
Trichlorofluoromethane			0.81				
Vinyl Chloride	50 J	29 @			24 @	22 @	
cis-1,2-dichloroethene	4.2 J	3.1 @	0.6	7.1 @		1 @	2.2 @
m & p-Xylenes	0.23					0.87	0.09
n-Propylbenzene	0.03						
o-Xylene	0.12					0.43	0.03
p-Isopropyltoluene							
s-Butylbenzene							
trans-1,2-Dichloroethene	0.15		0.92				0.06

TABLE E-3
Soil Gas Detected Results
IHSS 117.3

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG157194 SGG1571JE 12/22/94	SG157394 SGG1573JER 1/6/95	SG157494 SGG1574JE 1/11/95	SG157994 SGG1579JER 1/6/95	SG158094 SGG1580JE 1/11/95	SG158194 SGG1581JE 12/22/94	SG158294 SGG1582JER 1/11/95	SG158394 SGG1583JER 1/11/95	SG158494 SGG1584JE 1/11/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	2	0									
1,2,4-Trimethylbenzene	17	0	0.01	0.01	0.02		0.49		0.02		0.05
1,3,5-Trimethylbenzene	4	0					0.19				0.01
2-Butanone	10	0	0.2					0.04			
Acetone	4	0									
Benzene	24	1	0.73	0.55	0.27	1.1 @	0.28	0.73	0.15	0.3	0.09
Bromomethane	2	0				0.08			0.06		
Carbon Disulfide	7	0	0.07	0.19		0.15		0.24			
Chloromethane	11	0	0.05	0.03	0.08	0.06			0.06		
Dichlorodifluoromethane	2	0							0.05		0.05
Ethylbenzene	18	0	0.07	0.03	0.02	0.02	0.33	0.01	0.02	0.02	0.02
Isopropylbenzene	2	0					0.04				
Methylene Chloride	1	0									
Naphthalene	2	0					0.16				0.04
Tetrachloroethene	5	0									
Toluene	16	0	0.43	0.22	0.16	0.41	0.55	0.16		0.19	
Total Xylenes	8	1	0.09	0.08		0.06	1.33 @				
Trichloroethene	1	0									
Trichlorofluoromethane	9	4		1.2 @	0.5	0.71			13 J @		2.1 @
cis-1,2-dichloroethene	2	0									
m & p-Xylenes	8	0	0.07	0.06		0.05	0.9				
n-Butylbenzene	1	0					0.03				
n-Propylbenzene	3	0					0.17				0.01
o-Xylene	16	0	0.02	0.02	0.01	0.01	0.43	0.01	0.02		0.02
s-Butylbenzene	2	0					0.02				

TABLE E-3
Soil Gas Detected Results
IHSS 117.3

Sample Location: Sample Identification Number: Date Sampled:	SG158694 SGG1586JER 1/5/95	SG158794 SGG1587JE 12/22/94	SG158894 SGG1588JE 12/22/94	SG158994 SGG1589JE 12/22/94	SG159094 SGG1590JE 12/22/94	SG159194 SGG1591JE 12/22/94	SG159394 SGG1593JE 12/22/94	SG159494 SGG1594JER 1/5/95	SG159594 SGG1595JER 1/5/95	SG159694 SGG1596JER 1/9/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane		0.08					0.04			
1,2,4-Trimethylbenzene	0.01				0.01	0.04	0.03	0.01	0.01	0.01
1,3,5-Trimethylbenzene						0.01				
2-Butanone	0.13	0.07		0.05	0.12	0.04	0.16			0.05
Acetone			0.24			0.21	0.53			0.31
Benzene	0.45	0.37	0.11	0.32	0.37	0.04	0.06	0.24	0.14	0.04
Bromomethane										
Carbon Disulfide					0.2			0.04		
Chloromethane	0.04					0.04	0.08		0.04	
Dichlorodifluoromethane										
Ethylbenzene	0.02	0.02				0.02	0.13		0.02	
Isopropylbenzene										
Methylene Chloride										0.04
Naphthalene										
Tetrachloroethene	0.02						0.37		0.66	0.12
Toluene	0.21	0.23		0.17			0.51	0.15	0.11	
Total Xylenes						0.08	0.4		0.05	
Trichloroethene							0.08			
Trichlorofluoromethane	8.9 J @						0.57	0.65	0.11	
cis-1,2-dichloroethene							0.03		0.11	
m & p-Xylenes						0.06	0.31		0.04	
n-Butylbenzene										
n-Propylbenzene										
o-Xylene					0.01	0.02	0.09		0.01	
s-Butylbenzene										

TABLE E-3
Soil Gas Detected Results
IHSS 117.3

Sample Location: Sample Identification Number: Date Sampled:	SG159794 SGG1597JE 1/9/95	SG159894 SGG1598JE 1/9/95	SG159994 SGG1599JE 1/9/95	SG160094 SGG1600JE 1/9/95	SG160294 SGG1602JE 1/9/95
Test Group:GC/MS Units:µg/L					
1,1,1-Trichloroethane					
1,2,4-Trimethylbenzene	0.01	0.12		0.02	0.02
1,3,5-Trimethylbenzene		0.05			
2-Butanone		0.16			
Acetone					
Benzene	0.92	0.2	0.1	0.03	0.35
Bromomethane					
Carbon Disulfide					0.05
Chloromethane		0.04	0.04		
Dichlorodifluoromethane					
Ethylbenzene	0.02	0.09		0.01	0.03
Isopropylbenzene		0.02			
Methylene Chloride					
Naphthalene					
Tetrachloroethene	0.32				
Toluene	0.17	0.41			0.14
Total Xylenes		0.4			
Trichloroethene					
Trichlorofluoromethane					
cis-1,2-dichloroethene					
m & p-Xylenes		0.3			
n-Butylbenzene					
n-Propylbenzene		0.03			
o-Xylene	0.01	0.1		0.01	0.02
s-Butylbenzene		0.01			

TABLE-3
Soil Gas Detected Results
IHSS 152

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG160694 SGG1606JE 1/21/95	SG160794 SGG1607JE 1/21/95	SG160894 SGG1608JE 1/21/95	SG160994 SGG1609JE 1/21/95	SG161194 SGG1611JE 1/10/95	SG161294 SGG1612JE 1/21/95	SG161394 SGG1613JE 1/21/95	SG161394 SGG1613JE*R 1/21/95	SG161494 SGG1614JE 1/6/95	SG161594 SGG1615JE 1/6/95
Test Group:GC/MS Units:µg/L												
1,2,4-Trimethylbenzene	8	0		0.27	0.07	0.02	0.02	0.01				
1,3,5-Trimethylbenzene	4	0		0.08	0.02							
2-Butanone	6	0			0.11		0.09	0.07				
Benzene	12	1		0.06	1.1 @	0.09	0.41	0.3	0.08	0.3	0.12	0.36
Carbon Disulfide	3	0			0.04		0.06					
Chloromethane	6	1					0.05	0.23	0.04			0.04
Dichlorodifluoromethane	2	0										0.04
Ethylbenzene	10	0		0.02	0.13	0.01	0.08	0.03	0.02		0.02	
Isopropylbenzene	1	0										
Methylene Chloride	1	0										
Naphthalene	5	0		0.5	0.44	0.2		0.04	0.05			
Tetrachloroethene	5	0					0.23	0.02	0.02			0.08
Toluene	7	0			0.69		0.33	0.2				0.16
Total Xylenes	2	0			0.22		0.12					
Trichlorofluoromethane	7	6		0.15		1.9 @			4.7 J	31 @	6.2 J @	14 J @
Vinyl Chloride	3	1			1.6 @		0.13					
cis-1,2-dichloroethene	3	0			0.33		0.05					
m & p-Xylenes	2	0			0.16		0.08					
n-Propylbenzene	2	0					0.01					
o-Xylene	9	0		0.01	0.06	0.01	0.04	0.01	0.02			

TABLE E-3
Soil Gas Detected Results
IHSS 152

Sample Location: Sample Identification Number: Date Sampled:	SG161694 SGG1616JE 1/10/95	SG161794 SGG1617JE 1/10/95	SG161994 SGG1619JE 1/21/95
Test Group:GC/MS Units:µg/L			
1,2,4-Trimethylbenzene	0.04	0.03	0.01
1,3,5-Trimethylbenzene	0.01	0.01	
2-Butanone	0.13	0.06	0.1
Benzene	0.29	0.25	0.48
Carbon Disulfide			0.09
Chloromethane	1.1 @		0.17
Dichlorodifluoromethane	0.1		
Ethylbenzene	0.04	0.03	0.08
Isopropylbenzene		0.01	
Methylene Chloride	0.03		
Naphthalene			
Tetrachloroethene		0.09	
Toluene	0.16	0.13	0.3
Total Xylenes			
Trichlorofluoromethane	2.7 @		
Vinyl Chloride			0.9
cis-1,2-dichloroethene			0.06
m & p-Xylenes			
n-Propylbenzene	0.01		
o-Xylene	0.03	0.04	0.02

TA[illegible]E-3
Soil Gas Detected Results
IHSS 134N

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG159294 SGG1592JE 8/23/94	SG160194 SGG1601JE 8/23/94	SG161094 SGG1610JE 8/23/94	SG161894 SGG1618JER 12/23/94	SG162494 SGG1624JE 9/9/94	SG162594 SGG1625JE 8/23/94	SG162694 SGG1626JE 9/9/94	SG162794 SGG1627JER 12/23/94	SG162894 SGG1628JE 9/9/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	2	0	0.49								
1,1,2-Trichloroethane	1	0	0.07								
1,1-Dichloroethane	6	0	0.11								
1,1-Dichloroethene	1	0									
1,2,4-Trimethylbenzene	13	0	0.99	0.1	0.05	0.08	0.02	0.03		0.05	
1,3,5-Trimethylbenzene	7	0	0.44	0.03	0.02	0.03		0.01		0.02	
2-Butanone	10	0	0.29		0.14				0.15	0.04	0.13
2-Chlorotoluene	2	0	0.12	0.01							
4-Chlorotoluene	1	0	0.05								
Acetone	11	4	1.9 @	0.41	0.27		0.51	1.1 @	0.64		0.35
Benzene	17	3	0.32	0.28	0.27	0.09	0.05	0.66	0.19	0.39	0.14
Bromomethane	2	0									
Carbon Disulfide	6	0							0.06	0.07	
Chlorobenzene	2	0									
Chloroethane	4	3						0.98			
Chloromethane	5	0	0.1								
Dichlorodifluoromethane	4	2	0.37								
Ethylbenzene	17	0	0.37	0.07	0.05	0.03	0.43	0.13	0.33	0.25	0.86
Isopropylbenzene	3	0	0.08	0.01							
Napthalene	3	0	0.05	0.04		0.09				NA	
Styrene	2	0						0.19			
Tetrachloroethene	7	3	1.3 @	0.15	0.02		0.09				
Toluene	13	1	0.31	0.2	0.19			0.46	0.19	0.31	0.17
Total Xylenes	15	5	1.66 @	0.21	0.11	0.14	3.3 @	0.21	1.64 @	0.3	2.86 @
Trichloroethene	7	1	1.2 @	0.08			0.07				
Trichlorofluoromethane	7	3	0.1		0.1						
Vinyl Chloride	11	5					0.58			0.46	0.58
cis-1,2-dichloroethene	12	3					0.2			0.06	0.07
m & p-Xylenes	15	2	0.99	0.1	0.06	0.11	1.7 @	0.13	0.98	0.28	2 @
n-Butylbenzene	1	0	0.04								
n-Propylbenzene	6	0	0.27	0.03	0.02	0.02		0.01			
o-Xylene	15	1	0.67	0.11	0.05	0.03	1.6 @	0.08	0.66	0.02	0.86
p-Isopropyltoluene	1	0	0.02								
s-Butylbenzene	2	0	0.02								
trans-1,2-Dichloroethene	2	0									

TABLE E-3
Soil Gas Detected Results
IHSS 134N

Sample Location:	SG162994	SG163094	SG163094	SG163094	SG163194	SG163294	SG163394	SG163394	SG212894	SG212994
Sample Identification Number:	SGG1629JE	SGG1630JE	SGG1630JE*R	SGG1630JER	SGG1631JE	SGG1632JE	SGG1633JE	SGG1633JE*	SGG2128JE	SGG2129JE*
Date Sampled:	9/9/94	9/9/94	1/4/95	1/4/95	9/12/94	9/12/94	9/12/94	9/12/94	3/22/95	3/8/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane						0.03				
1,1,2-Trichloroethane										
1,1-Dichloroethane		0.42		0.42	0.03					0.38
1,1-Dichloroethene						0.06				
1,2,4-Trimethylbenzene	0.01	0.02		0.02	0.03					
1,3,5-Trimethylbenzene										
2-Butanone	0.05	0.08		0.08						
2-Chlorotoluene										
4-Chlorotoluene										
Acetone	0.33				0.6					
Benzene	0.14	1.1 @	0.95	1.1					0.34	0.64
Bromomethane		0.09		0.09						
Carbon Disulfide		0.26		0.26						
Chlorobenzene										
Chloroethane		4.3 J @		4.3 J						1.1 @
Chloromethane		0.09		0.09					0.03	
Dichlorodifluoromethane		2.2 @		2.2						0.5
Ethylbenzene	0.04	0.02		0.02	0.01				0.01	0.12
Isopropylbenzene										
Napthalene										
Styrene										
Tetrachloroethene	0.03						1.9 @	2.5		
Toluene	0.12	0.43		0.43					0.35	
Total Xylenes	0.09	5.25 J @		0.06	0.04					
Trichloroethene	0.03	0.65		0.65			0.21			
Trichlorofluoromethane		11 J @		11 J					0.16	
Vinyl Chloride	0.7	1 @		1		7.8 J @	2.2 J @			7.9 @
cis-1,2-dichloroethene	0.13	0.11		0.11		1.7 @	5.2 J	1 @		0.62
m & p-Xylenes	0.06	0.05		0.05	0.02					
n-Butylbenzene										
n-Propylbenzene										
o-Xylene	0.03	0.01		0.01	0.02					
p-Isopropyltoluene										
s-Butylbenzene										
trans-1,2-Dichloroethene						0.07	0.16			

TA[illegible]-3
Soil Gas Detected Results
IHSS 134N

Sample Location: Sample Identification Number: Date Sampled:	SG216394 SGG2163JE 3/23/95	SG216494 SGG2164JE 3/23/95
Test Group:GC/MS Units:µg/L		
1,1,1-Trichloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane	0.03	
1,1-Dichloroethene		
1,2,4-Trimethylbenzene	0.07	0.02
1,3,5-Trimethylbenzene	0.03	
2-Butanone	0.21	0.11
2-Chlorotoluene		
4-Chlorotoluene		
Acetone	2.2 @	1.2 @
Benzene	1.6 @	0.51
Bromomethane		
Carbon Disulfide	0.13	0.06
Chlorobenzene	0.02	0.01
Chloroethane		
Chloromethane		0.04
Dichlorodifluoromethane		
Ethylbenzene	0.17	0.06
Isopropylbenzene	0.02	
Napthalene		
Styrene	0.04	
Tetrachloroethene		
Toluene	1.1 @	0.44
Total Xylenes	0.37	0.13
Trichloroethene		
Trichlorofluoromethane	0.29	2.1 @
Vinyl Chloride	0.27	0.1
cis-1,2-dichloroethene	0.06	0.05
m & p-Xylenes	0.25	0.09
n-Butylbenzene		
n-Propylbenzene	0.04	
o-Xylene	0.12	0.04
p-Isopropyltoluene		
s-Butylbenzene	0.01	
trans-1,2-Dichloroethene		

TABLE E-3
Soil Gas Detected Results
IHSS 128

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG163494 SGG1634JE 9/12/94	SG163494 SGG1634JE* 9/12/94
Test Group:GC/MS Units:µg/L				
1,1-Dichloroethane	1	0	0.44	
2-Butanone	1	0	0.04	
Acetone	1	0	0.07	
Benzene	1	0	0.05	
Tetrachloroethene	2	0	0.29	0.28
Trichlorofluoromethane	2	2	4 J	1.9 @
Vinyl Chloride	1	0	0.18	
cis-1,2-dichloroethene	1	0	0.18	
o-Xylene	1	0	0.02	

TABLE 2-3
Soil Gas Detected Results
IHSS 171

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG163594 SGG1635JE 9/12/94	SG163694 SGG1636JE 9/16/94	SG163794 SGG1637JE 9/13/94	SG163894 SGG1638JE 9/13/94	SG163994 SGG1639JE 9/12/94	SG164094 SGG1640JE 9/12/94	SG164094 SGG1640JE* 1/4/95	SG164194 SGG1641JE 9/16/94	SG164194 SGG1641JE*R 12/23/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	6	3									
1,1-Dichloroethane	5	0						0.1			
1,1-Dichloroethene	5	2									
1,2,4-Trimethylbenzene	17	0		0.03	0.04			0.02		0.04	
1,3,5-Trimethylbenzene	2	0								0.01	
2-Butanone	21	0		0.23		0.06	0.16				
Acetone	16	1				0.27	0.46				
Benzene	35	2		0.34	0.38	0.09	0.3	1 @	0.77	0.11	
Bromomethane	1	0				0.22					
Carbon Disulfide	10	0						0.48			
Carbon Tetrachloride	1	0									
Chloroform	2	0									
Chloromethane	10	1		0.05		0.03		0.04	1.9 NC		
Ethylbenzene	29	0		0.07	0.05	0.02	0.06	0.01		0.04	
Isopropylbenzene	1	0									
Napthalene	4	1						0.05			
Styrene	3	0									
Tetrachloroethene	27	9		0.06	0.05	0.38	1.1 @	0.05	0.3	6.8 J @	
Toluene	16	0		0.26	0.45		0.2	0.22			
Total Xylenes	18	0		0.09	0.08		0.07	0.1		0.09	
Trichloroethene	18	6					0.1	1.8 @	1.7	0.24	
Trichlorofluoromethane	15	6			1.2 @	0.44	1 @				
Vinyl Chloride	8	4					0.23	7.2 J	2.7 @	0.11	
cis-1,2-dichloroethene	19	8			0.04		0.13	3.5 @	2.2	0.06	
m & p-Xylenes	18	0		0.05	0.05		0.04	0.04		0.05	
n-Propylbenzene	11	0		0.01						0.01	
o-Xylene	27	0		0.04	0.03	0.01	0.03	0.01		0.04	
trans-1,2-Dichloroethene	1	0									

TABLE E-3
Soil Gas Detected Results
IHSS 171

Sample Location: Sample Identification Number: Date Sampled:	SG164294 SGG1642JE 9/16/94	SG164394 SGG1643JE 9/16/94	SG164494 SGG1644JE 9/16/94	SG164494 SGG1644JE*R 1/4/95	SG164594 SGG1645JE 9/16/94	SG164694 SGG1646JE 9/20/94	SG164794 SGG1647JE 9/20/94	SG164894 SGG1648JE 9/16/94	SG164994 SGG1649JE 9/20/94	SG165094 SGG1650JE 9/16/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1-Dichloroethane										
1,1-Dichloroethene										
1,2,4-Trimethylbenzene			0.02	0.14	0.02	0.1	0.01		0.03	
1,3,5-Trimethylbenzene						0.04				
2-Butanone		0.05	0.2		0.05		0.04	0.19		0.27
Acetone	0.11	0.21								0.48
Benzene	0.05	0.05	0.4	2.7 NC	0.06	0.08	0.07	0.53	0.39	0.33
Bromomethane										
Carbon Disulfide								0.13	0.12	0.09
Carbon Tetrachloride										
Chloroform			0.05							
Chloromethane								0.32	0.28	0.06
Ethylbenzene	0.01		0.07	0.14	0.01	0.07	0.02	0.05	0.09	0.05
Isopropylbenzene						0.01				
Napthalene					0.06					
Styrene			0.04							
Tetrachloroethene	0.02		3.8 J @		0.27			0.02		0.03
Toluene			0.23					0.28	0.29	0.2
Total Xylenes			0.07	0.55		0.25		0.04	0.06	
Trichloroethene			0.04		0.08				0.08	
Trichlorofluoromethane			0.11							
Vinyl Chloride										
cis-1,2-dichloroethene			0.03		0.1			0.08		
m & p-Xylenes			0.03	0.44		0.15		0.02	0.03	
n-Propylbenzene			0.02			0.03				
o-Xylene			0.04	0.11	0.01	0.1	0.02	0.02	0.03	0.02
trans-1,2-Dichloroethene										

TABLE E-3
Soil Gas Detected Results
IHSS 171

Sample Location: Sample Identification Number: Date Sampled:	SG165194 SGG1651JE 9/16/94	SG165194 SGG1651JE*R 12/23/94	SG165294 SGG1652JE 9/13/94	SG165294 SGG1652JE*R 2/22/95	SG165394 SGG1653JE 9/13/94	SG165494 SGG1654JE 9/13/94	SG165494 SGG1654JE*R 1/4/95	SG165594 SGG1655JE 9/13/94	SG165694 SGG1656JE 9/13/94	SG165694 SGG1656JE* 2/8/95
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane						5.5 J	1.7 @	0.21		
1,1-Dichloroethane	0.04					0.14			0.05	
1,1-Dichloroethene	0.06		0.26							
1,2,4-Trimethylbenzene	0.02	0.11				0.03			0.02	
1,3,5-Trimethylbenzene										
2-Butanone	0.06		0.09			0.11		0.08	0.1	
Acetone	0.41		0.37		0.12	0.65		0.23	0.45	1.2 NC
Benzene	0.21		0.33	0.42	0.08	0.2	0.41	0.06	0.24	0.48
Bromomethane										
Carbon Disulfide			0.05							
Carbon Tetrachloride						0.04				
Chloroform			0.08							
Chloromethane				0.5		0.14				
Ethylbenzene	0.05		0.07	0.12	0.02	0.07		0.02	0.06	
Isopropylbenzene										
Napthalene									0.04	
Styrene			0.05			0.04				
Tetrachloroethene	4.8 J @		3.9 J	3.7 @	0.7	35 J @		3.6 J @	0.27	
Toluene	0.26		0.28			0.18			0.21	
Total Xylenes	0.04		0.08			0.09			0.09	
Trichloroethene	2.9 J @		2 J	1.7 @	0.3	2 @	0.56	0.08	0.09	
Trichlorofluoromethane			0.6		1.9 @	2.3 J @		1.3 @	0.84	
Vinyl Chloride	0.42		0.18						2.4 J	3.3 @
cis-1,2-dichloroethene	8 J @		4.2 J	2.6 @	0.23	0.06		0.03	9.2 J	9.8 @
m & p-Xylenes	0.02		0.04			0.05			0.05	
n-Propylbenzene			0.01			0.01			0.01	
o-Xylene	0.02		0.04		0.01	0.04		0.01	0.04	
trans-1,2-Dichloroethene									0.08	

TABLE E-3
Soil Gas Detected Results
IHSS 171

Sample Location:	SG165794	SG165894	SG165894	SG165994	SG166094	SG166194	SG166294	SG166394	SG166394	SG166494
Sample Identification Number:	SGG1657JE	SGG1658JE	SGG1658JE*R	SGG1659JE	SGG1660JE	SGG1661JE	SGG1662JE	SGG1663JE	SGG1663JE*R	SGG1664JE
Date Sampled:	9/15/94	9/15/94	1/4/95	9/15/94	9/15/94	9/15/94	9/15/94	9/15/94	1/4/95	9/16/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane								0.96	1.3 NC	0.06
1,1-Dichloroethane								0.11		
1,1-Dichloroethene							0.06	3.9 J	4.5 @	
1,2,4-Trimethylbenzene				0.02	0.03	0.02				
1,3,5-Trimethylbenzene										
2-Butanone	0.12	0.11		0.14	0.15	0.07		0.06		0.09
Acetone					0.45		0.12	0.26		0.3
Benzene	0.13	0.26	0.41	0.32	0.16	0.29	0.03	0.11	0.45	0.1
Bromomethane										
Carbon Disulfide	0.05			0.07	0.05	0.09			0.54	
Carbon Tetrachloride										
Chloroform										
Chloromethane				0.05						
Ethylbenzene	0.02	0.07		0.05	0.06	0.08		0.03		0.02
Isopropylbenzene										
Napthalene										
Styrene										
Tetrachloroethene	0.23	13 J @		0.42	0.15	0.2	0.02	0.62		0.49
Toluene		0.27		0.23	0.16	0.26				
Total Xylenes		0.06		0.07	0.09	0.07				
Trichloroethene	0.7	0.7		0.19						
Trichlorofluoromethane				0.62	0.12	0.17	4.3 J @	0.43		0.46
Vinyl Chloride										
cis-1,2-dichloroethene	1.4 @	0.22		0.13						
m & p-Xylenes		0.03		0.04	0.05	0.04				
n-Propylbenzene		0.01		0.01	0.02	0.01				
o-Xylene	0.01	0.03		0.03	0.04	0.03		0.01		0.01
trans-1,2-Dichloroethene										

TABLE E-3
Soil Gas Detected Results
IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG166694 SGG1666JE 1/26/95	SG166794 SGG1667JE 1/26/95	SG166894 SGG1668JE* 1/26/95	SG166994 SGG1669JE*R 3/28/95	SG167094 SGG1670JE**R2 3/13/95	SG167194 SGG1671JE 9/16/94	SG167294 SGG2098JE*R 2/15/95	SG167394 SGG1673JE*R 2/22/95	SG167494 SGG1674JER 12/23/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane	1	0									
1,1,2-Trichloroethane	1	1									
1,2,4-Trimethylbenzene	28	0						0.04			0.07
1,3,5-Trimethylbenzene	13	0						0.02			0.03
2-Butanone	26	0	0.08	0.08				0.15			0.13
Acetone	9	4				0.9	10 @			0.54	
Benzene	43	9	0.79	0.59	5.5 @	0.38		0.38	0.8		0.69
Bromomethane	2	0									
Carbon Disulfide	12	0	0.16	0.15				0.08			0.09
Chlorobenzene	1	0			0.37						
Chloroethane	1	0									
Chloromethane	18	0	0.04	0.06				0.36			
Dichlorodifluoromethane	1	0									
Ethylbenzene	37	3	0.04	0.02				0.1			0.02
Isopropylbenzene	15	0						0.01			
Methylene Chloride	2	0	0.05	0.03							
Napthalene	3	0									0.05
Styrene	17	0						0.06			
Tetrachloroethene	22	5	0.21	0.49	22 @	2.3 @	28 @	0.34	1.2 @		
Toluene	36	9	0.41	0.27				0.79			0.16
Total Xylenes	31	6						0.12			0.09
Trichloroethene	5	0						0.15			
Trichlorofluoromethane	20	10			2 @	2.9 @	1100 J @				
Vinyl Chloride	4	1						1.3 @			0.2
cis-1,2-dichloroethene	4	0						0.36			
m & p-Xylenes	32	4						0.06			0.07
n-Propylbenzene	24	0						0.02			0.02
o-Xylene	35	4	0.05	0.02				0.06			0.02
s-Butylbenzene	2	0									

TABLE E-3
Soil Gas Detected Results
IHSS 134S

Sample Location:	SG167594	SG167694	SG167994	SG167994	SG168094	SG168094	SG168194	SG168194	SG168294	SG168394
Sample Identification Number:	SGG1675JE	SGG1676JE*	SGG1679JER	SGG1679JE*R	SGG1680JE	SGG1680JE*R	SGG1681JE	SGG1681JE*R	SGG1682JE	SGG1683JE
Date Sampled:	9/19/94	9/20/94	12/23/94	12/23/94	9/19/94	2/22/95	9/19/94	12/23/94	9/19/94	9/19/94
Test Group:GC/MS Units:µg/L										
1,1,1-Trichloroethane										
1,1,2-Trichloroethane		1.6 @								
1,2,4-Trimethylbenzene	0.02		0.04		0.11		0.24		0.02	
1,3,5-Trimethylbenzene			0.02		0.13		0.22		0.02	
2-Butanone									0.08	0.14
Acetone										
Benzene	0.17	14 @	1.2 @	1	0.56	1.1 NC	0.5		0.35	0.58
Bromomethane									0.04	
Carbon Disulfide					0.04					
Chlorobenzene										
Chloroethane			0.1							
Chloromethane						0.31				0.03
Dichlorodifluoromethane										
Ethylbenzene	0.27	0.12	0.03		1.7 @		1.6 @		0.44	0.34
Isopropylbenzene	0.01				0.17		0.14		0.02	
Methylene Chloride										
Napthalene										
Styrene	0.09				0.16		0.08		0.05	0.09
Tetrachloroethene	0.08				0.18		0.02			0.02
Toluene	1.1 @		0.51		2.3 J @		2 @		1.4 @	1.5 @
Total Xylenes	0.51		0.18		3.4 @		4.1 J @		0.91	0.45
Trichloroethene										0.03
Trichlorofluoromethane						1.3 NC				
Vinyl Chloride										
cis-1,2-dichloroethene										
m & p-Xylenes	0.3		0.14		1.6 @		2.1 J @		0.56	0.26
n-Propylbenzene	0.01		0.01		0.12		0.13		0.02	
o-Xylene	0.21	0.21	0.04		1.8 @		2 @		0.35	0.19
s-Butylbenzene										

TABLE E-3
Soil Gas Detected Results
IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SG168494 SGG1684JE 9/19/94	SG168594 SGG1685JE 9/19/94	SG168694 SGG1686JE 9/19/94	SG168794 SGG1687JE 9/19/94	SG168894 SGG1688JE 9/21/94	SG168994 SGG1689JE 9/21/94	SG169094 SGG1690JE 9/21/94	SG169194 SGG1691JE 9/19/94	SG169294 SGG1692JE 9/19/94	SG169394 SGG1693JE 9/19/94	SG169494 SGG1694JE 9/19/94
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
1,2,4-Trimethylbenzene	0.02	0.03	0.37	0.03	0.02	0.02	0.02	0.15	0.07	0.02	0.01
1,3,5-Trimethylbenzene			0.29	0.02				0.11	0.06		
2-Butanone	0.12	0.2	0.19	0.08	0.06	0.09	0.17	0.04	0.16	0.25	0.07
Acetone									0.4	0.41	
Benzene	0.3	0.85	0.23	0.05	0.42	0.46	0.43	0.34	0.27	0.28	0.28
Bromomethane											
Carbon Disulfide											
Chlorobenzene											
Chloroethane											
Chloromethane						0.11	0.04				0.03
Dichlorodifluoromethane							0.05				
Ethylbenzene	0.05	0.17	0.8	0.22	0.38	0.51	0.26	0.22	0.2	0.13	0.09
Isopropylbenzene		0.02	0.1	0.02	0.01	0.02		0.04	0.02		
Methylene Chloride											
Napthalene							0.06				
Styrene		0.05	0.11		0.04	0.08	0.04		0.15	0.05	
Tetrachloroethene	0.15	0.24	0.02					0.05	0.13		
Toluene	0.14	0.81	0.67	0.12	0.97	1.5 @	1.5 @	0.25	0.25	0.42	0.28
Total Xylenes		0.26	2.8 @	0.75	0.79	1.16 @	0.37	0.76	0.59	0.22	0.14
Trichloroethene											
Trichlorofluoromethane		0.06			0.26	2.2 J @	10 J @	6.4 J @	0.06		6.7 J @
Vinyl Chloride											
cis-1,2-dichloroethene											
m & p-Xylenes	0.03	0.12	1.4 @	0.4	0.5	0.64	0.23	0.36	0.28	0.12	0.08
n-Propylbenzene	0.01	0.02	0.14	0.02	0.01	0.01		0.06	0.04	0.01	
o-Xylene		0.14	1.4 @	0.35	0.29	0.52	0.14	0.4	0.31	0.1	0.06
s-Butylbenzene			0.01								

TABLE E-3
Soil Gas Detected Results
IHSS 134S

Sample Location:	SG169594	SG169694	SG169794	SG169794	SG213094	SG213194	SG213294	SG213394	SG213494	SG213594	SG213694
Sample Identification Number:	SGG1695JE	SGG1696JE	SGG1697JE	SGG1697JE*R	SGG2130JE	SGG2131JE	SGG2132JE	SGG2133JE	SGG2134JE	SGG2135JE	SGG2136JE
Date Sampled:	9/20/94	9/20/94	9/20/94	12/23/94	3/8/95	3/7/95	3/7/95	3/8/95	3/8/95	3/7/95	3/7/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
1,2,4-Trimethylbenzene	0.02	0.01	0.6		0.02	0.02					0.01
1,3,5-Trimethylbenzene			0.47								
2-Butanone	0.06	0.12	0.15			0.1			0.04		
Acetone			0.45	1.8 NC							
Benzene	0.52	0.43	0.44		0.8	1.2 @	0.04	0.71	0.37	0.41	0.7
Bromomethane											0.1
Carbon Disulfide					0.04	0.12		0.07	0.11		0.05
Chlorobenzene											
Chloroethane											
Chloromethane	0.05	0.03			0.04	0.35		0.07	0.03		
Dichlorodifluoromethane											
Ethylbenzene	0.09	0.08	2.4 J @		0.03	0.15		0.09	0.02	0.05	0.08
Isopropylbenzene			0.19			0.01					
Methylene Chloride											
Napthalene											
Styrene	0.05		0.08			0.06					0.11
Tetrachloroethene					0.06	0.05	4 @	0.52			
Toluene	0.35	0.25	2.4 J @		0.39	0.74		0.45	0.18	0.26	0.38
Total Xylenes	0.12	0.17	6.8 J @			0.18		0.1		0.06	0.09
Trichloroethene						0.1	0.68	0.07			
Trichlorofluoromethane					0.07	0.1	0.09				0.07
Vinyl Chloride							0.67			0.35	
cis-1,2-dichloroethene						0.07	0.83			0.11	
m & p-Xylenes	0.06	0.1	3.2 J @			0.12		0.07		0.04	0.06
n-Propylbenzene	0.02		0.28			0.03		0.01		0.01	0.01
o-Xylene	0.06	0.07	3.6 J @		0.02	0.06		0.03		0.02	0.03
s-Butylbenzene			0.01								

TABLE E-3
Soil Gas Detected Results
IHSS 134S

Sample Location: Sample Identification Number: Date Sampled:	SG213794 SGG2137JE 3/8/95	SG213894 SGG2138JE 3/8/95	SG213994 SGG2139JE 3/8/95	SG214094 SGG2140JE 3/8/95	SG216794 SGG2167JE 3/23/95	SG216894 SGG2168JE* 3/23/95
Test Group:GC/MS Units:µg/L						
1,1,1-Trichloroethane					0.09	
1,1,2-Trichloroethane						
1,2,4-Trimethylbenzene		0.01	0.02	0.03	0.08	
1,3,5-Trimethylbenzene				0.01	0.02	
2-Butanone		0.13	0.1	0.07	0.25	
Acetone					1.5 @	5.3 @
Benzene	0.19	0.24	0.14	1.2 @	1.2 @	1 @
Bromomethane						
Carbon Disulfide				0.04	0.07	
Chlorobenzene						
Chloroethane						
Chloromethane		0.07	0.2	0.07		0.32
Dichlorodifluoromethane						
Ethylbenzene	0.05	0.04	0.04	0.07	0.1	0.39
Isopropylbenzene					0.01	
Methylene Chloride						
Napthalene					0.04	
Styrene						
Tetrachloroethene		0.08			0.03	
Toluene	0.21	0.2	0.37	0.78	0.86	14 @
Total Xylenes	0.09	0.09	0.11	0.16	0.31	1.2 @
Trichloroethene						
Trichlorofluoromethane		0.3	0.07	0.06	1.4 @	67 J @
Vinyl Chloride						
cis-1,2-dichloroethene						
m & p-Xylenes	0.07	0.06	0.08	0.12	0.16	0.87
n-Propylbenzene				0.01	0.03	
o-Xylene	0.02	0.03	0.03	0.04	0.15	0.33
s-Butylbenzene						

TABLE E-3
Soil Gas Detected Results
IHSS 148

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG170794 SGG1707JE 2/5/95	SG171194 SGG1711JE 2/5/95	SG171294 SGG1712JE 2/5/95	SG171394 SGG1713JE 2/5/95	SG171494 SGG1714JE 2/5/95	SG171594 SGG1715JE 2/5/95	SG171694 SGG1716JE 2/5/95	SG171794 SGG1717JE 2/5/95	SG172194 SGG1721JE 2/4/95	SG172694 SGG1726JER 2/22/95
Test Group:GC/MS Units:µg/L												
1,2,4-Trimethylbenzene	24	1		0.32	0.28	0.38	0.33	0.1	0.02	0.13		0.37
1,3,5-Trimethylbenzene	15	0		0.13	0.11	0.14	0.07	0.04		0.03		0.12
2-Butanone	25	0	0.14	0.13		0.16	0.06	0.04	0.1	0.21		0.1
Acetone	15	1	0.37			0.41		0.28	0.17	0.51	0.03	0.37
Benzene	32	3	0.2	1.2 @	0.25	0.06	0.19	0.04	0.15	0.41		0.12
Bromomethane	1	0										
Carbon Disulfide	14	0		0.21			0.04					
Chloroform	4	0								0.04		
Chloromethane	22	0		0.2	0.03		0.04	0.04	0.03			0.24
Dichlorodifluoromethane	7	0										0.05
Ethylbenzene	30	2	0.03	0.13	0.25	0.03	0.03	0.03	0.03	0.04		0.25
Isopropylbenzene	5	0		0.02	0.03							0.03
Methylene Chloride	2	0										
Naphthalene	1	0										
Tetrachloroethene	3	1										
Toluene	25	1	0.11	0.72	0.19		0.13			0.25		0.57
Total Xylenes	19	2		0.45	1.38 @	0.2	0.15	0.2				0.83
Trichlorofluoromethane	16	9						2 @	0.1			2 @
m & p-Xylenes	20	2		0.32	1.08 @	0.14	0.1	0.14				0.6
n-Butylbenzene	2	0					0.03					0.03
n-Propylbenzene	15	0	0.12	0.11	0.11	0.14	0.03	0.03				0.12
o-Xylene	30	1	0.02	0.13	0.3	0.06	0.05	0.06	0.02	0.03	0.01	0.23
p-Isopropyltoluene	5	0	0.08	0.11	0.05	0.1	0.03					
s-Butylbenzene	1	0										0.01

TABLE E-3
Soil Gas Detected Results
IHSS 148

Sample Location: Sample Identification Number: Date Sampled:	SG172894 SGG1728JER 2/22/95	SG172994 SGG1729JE 2/5/95	SG173094 SGG1730JE 2/4/95	SG173494 SGG1734JE 2/4/95	SG173594 SGG1735JER 2/4/95	SG173694 SGG1736JER 3/28/95	SG173894 SGG1738JE 2/5/95	SG173994 SGG1739JE 2/5/95	SG174194 SGG1741JE 2/4/95	SG174394 SGG1743JE 2/4/95
Test Group:GC/MS Units:µg/L										
1,2,4-Trimethylbenzene	.07 B			0.03	0.05		0.01	0.01	0.01	0.1
1,3,5-Trimethylbenzene				0.01	0.02					0.04
2-Butanone		0.25		0.11	0.4	0.11		0.05	0.11	0.07
Acetone						0.85		0.13		0.36
Benzene	0.33	1 @	0.16	0.52	0.57	0.63	0.15		0.29	0.19
Bromomethane		0.04								
Carbon Disulfide		0.15		0.1	0.12	0.14				
Chloroform	0.07	0.09								
Chloromethane		0.14	0.04	0.04	0.04		0.4			0.04
Dichlorodifluoromethane					0.05				0.15	
Ethylbenzene	.03 B	0.1		0.04	0.12	0.06	0.03		0.06	0.07
Isopropylbenzene					0.01					
Methylene Chloride					0.03					
Naphthalene										
Tetrachloroethene									0.15	
Toluene	0.27	0.58		0.39	0.77	0.46			0.2	0.15
Total Xylenes				0.11	0.45	0.09			0.15	0.24
Trichlorofluoromethane	0.73		0.06	1.9 @	2.6 @	0.25				
m & p-Xylenes	0.1			0.08	0.32	0.06			0.1	0.18
n-Butylbenzene										
n-Propylbenzene					0.02	0.01			0.01	0.03
o-Xylene		0.03		0.03	0.13	0.03	0.01		0.05	0.06
p-Isopropyltoluene										
s-Butylbenzene										

TABLE E-3
Soil Gas Detected Results
IHSS 148

Sample Location:	SG174494	SG174594	SG174694	SG174794	SG174894	SG174994	SG175294	SG175394	SG175594	SG175694	SG175794
Sample Identification Number:	SGG1744JE	SGG1745JE	SGG1746JE*	SGG1747JE	SGG1748JE	SGG1749JE	SGG1752JE	SGG1753JE	SGG1755JE	SGG1756JE	SGG1757JE
Date Sampled:	2/1/95	2/3/95	2/1/95	2/3/95	2/5/95	2/4/95	2/4/95	1/29/95	1/29/95	1/29/95	1/29/95
Test Group:GC/MS Units:µg/L											
1,2,4-Trimethylbenzene	0.04	0.01		0.01		0.05	0.07	0.01			
1,3,5-Trimethylbenzene	0.01					0.02	0.03				
2-Butanone	0.31	0.07		0.05	0.27	0.23		0.07	0.04	0.05	
Acetone			1.2 @		0.52	0.49	0.12				
Benzene	1.4 @	0.14	0.47	0.14	0.39	0.06	0.04	0.48	0.33	0.43	0.29
Bromomethane											
Carbon Disulfide	0.11				0.06			0.09	0.16	0.09	0.12
Chloroform									0.04		
Chloromethane	0.05		0.34	0.06	0.11	0.23				0.27	0.04
Dichlorodifluoromethane		0.1		0.06		0.44					
Ethylbenzene	0.11	0.03	7.4 @	0.09	0.06	0.05	0.09	0.05	0.02		0.05
Isopropylbenzene	0.01										
Methylene Chloride	0.07										
Naphthalene											
Tetrachloroethene	0.06					1.5 @					
Toluene	0.78	0.19	2.2 @	0.23	0.26			0.28	0.21	0.22	0.22
Total Xylenes	0.16		43 @	0.35		0.26	0.46				
Trichlorofluoromethane		1.1 @	1.5 @	0.95		1.6 @		0.38			
m & p-Xylenes	0.1		32 @	0.26		0.2	0.36				
n-Butylbenzene											
n-Propylbenzene	0.02					0.02	0.02				
o-Xylene	0.06	0.02	11 @	0.09	0.02	0.06	0.1	0.03		0.02	0.03
p-Isopropyltoluene											
s-Butylbenzene											

TABLE E-3
Soil Gas Detected Results
IHSS 148

Sample Location: Sample Identification Number: Date Sampled:	SG175994 SGG1759JE 2/4/95	SG176094 SGG1760JE 2/4/95	SG215794 SGG2157JE 3/15/95
Test Group:GC/MS Units:µg/L			
1,2,4-Trimethylbenzene	0.03	0.03	0.04
1,3,5-Trimethylbenzene	0.01		0.01
2-Butanone		0.05	0.15
Acetone	0.76		
Benzene	0.66	0.25	0.24
Bromomethane			
Carbon Disulfide	0.09	0.06	
Chloroform			
Chloromethane	0.05	0.05	0.04
Dichlorodifluoromethane	0.09		
Ethylbenzene	0.09	0.04	0.05
Isopropylbenzene			
Methylene Chloride			
Naphthalene			0.07
Tetrachloroethene			
Toluene	0.46	0.19	0.23
Total Xylenes	0.29	0.13	0.09
Trichlorofluoromethane	7.9 J @	0.58	1.9 @
m & p-Xylenes	0.24	0.1	0.06
n-Butylbenzene			
n-Propylbenzene			0.02
o-Xylene	0.05	0.03	0.03
p-Isopropyltoluene			
s-Butylbenzene			

TABLE E-3
Soil Gas Detected Results
IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG176894 SGG1768JE 1/27/95	SG176994 SGG1769JE 1/27/95	SG177094 SGG1770JE 1/29/95	SG177194 SGG1771JE 1/28/95	SG177294 SGG1772JE 1/28/95	SG177494 SGG1774JE 1/27/95	SG177594 SGG1775JE 1/27/95	SG177694 SGG1776JE 1/27/95	SG178394 SGG1783JE 1/29/95	SG178594 SGG1785JE 1/28/95
Test Group:GC/MS Units:µg/L												
1,1,1-Trichloroethane	2	0										
1,2,4-Trimethylbenzene	14	0	0.01	0.01	0.01	0.07	0.07		0.01		0.03	0.02
1,3,5-Trimethylbenzene	2	0				0.02	0.02					
2-Butanone	3	0				0.04						
Acetone	8	0	0.08	0.14			0.18	0.13		0.05		0.27
Benzene	21	0	0.06	0.03	0.42	0.63		0.03	0.09		0.5	0.18
Bromomethane	2	0									0.03	
Carbon Disulfide	11	0			0.15	0.1					0.07	
Chloroform	7	0	0.73	0.3				0.22	0.03			0.29
Chloromethane	15	0	0.03			0.06		0.04			0.06	
Ethylbenzene	21	0	0.02	0.02	0.03	0.06	0.01	0.01	0.01			0.02
Methylene Chloride	9	0	0.04				0.04		0.04			
Naphthalene	1	0		0.07								
Tetrachloroethene	16	3	0.1	0.09	0.2	1.5 @	2.1 @	0.13	0.23			0.05
Toluene	13	0		0.12	0.22	0.4					0.26	0.66
Total Xylenes	3	0				0.14						
Trichlorofluoromethane	14	1	0.36	0.1		0.26	0.35	2.7 @	0.34	0.44		0.31
cis-1,2-dichloroethene	1	0										
m & p-Xylenes	3	0				0.1						
n-Propylbenzene	2	0				0.02	0.02					
o-Xylene	20	0	0.02	0.02	0.02	0.04	0.03	0.02	0.01		0.01	0.02

TABLE E-3
Soil Gas Detected Results
IHSS 157.1

Sample Location:	SG178894	SG179094	SG179194	SG179394	SG179694	SG179794	SG180394	SG180494	SG180894	SG181994	SG182494
Sample Identification Number:	SGG1788JE	SGG1790JE	SGG1791JE	SGG1793JE	SGG1796JE	SGG1797JE	SGG1803JE	SGG1804JE	SGG1808JE	SGG1819JE	SGG1824JE
Date Sampled:	1/28/95	1/29/95	1/28/95	1/28/95	1/27/95	1/28/95	1/28/95	1/28/95	1/27/95	1/27/95	1/27/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane										0.21	
1,2,4-Trimethylbenzene	0.02	0.01	0.02	0.01	0.01						
1,3,5-Trimethylbenzene											
2-Butanone								0.06			0.06
Acetone			0.44								
Benzene	0.09	0.18	0.37	0.13	0.15	0.28		0.45	0.09	0.09	0.59
Bromomethane			0.04								
Carbon Disulfide		0.11	0.06		0.07					0.06	0.14
Chloroform	0.04			0.13							
Chloromethane			0.08	0.09		0.07	0.19	0.04	0.22	0.04	0.08
Ethylbenzene	0.17	0.02	0.04	0.01	0.04	0.02		0.02	0.01	0.02	0.05
Methylene Chloride		0.03	0.04						0.03	0.09	0.03
Naphthalene											
Tetrachloroethene	1.2 @			0.39	0.32		0.14	0.04	0.07		0.02
Toluene	0.4		0.24		0.17	0.18		0.19			0.37
Total Xylenes	0.65				0.11						
Trichlorofluoromethane	0.4		0.06	0.3			0.24			0.37	0.21
cis-1,2-dichloroethene				0.18							
m & p-Xylenes	0.5				0.08						
n-Propylbenzene											
o-Xylene	0.15	0.01	0.02	0.01	0.03			0.01	0.01	0.02	0.03

TABLE E-3
Soil Gas Detected Results
IHSS 157.1

Sample Location: Sample Identification Number: Date Sampled:	SG182594 SGG1825JE 1/27/95	SG182794 SGG1827JE 1/29/95	SG182894 SGG1828JE 1/27/95
Test Group:GC/MS Units:µg/L			
1,1,1-Trichloroethane		0.05	
1,2,4-Trimethylbenzene			0.01
1,3,5-Trimethylbenzene			
2-Butanone			
Acetone		0.13	
Benzene	0.36	0.07	0.3
Bromomethane			
Carbon Disulfide	0.1	0.04	0.14
Chloroform			
Chloromethane	0.03	0.05	0.04
Ethylbenzene	0.03	0.01	0.02
Methylene Chloride			0.07
Naphthalene			
Tetrachloroethene			0.03
Toluene	0.31		0.17
Total Xylenes			
Trichlorofluoromethane			
cis-1,2-dichloroethene			
m & p-Xylenes			
n-Propylbenzene			
o-Xylene	0.01		0.01

TABLE E-3
Soil Gas Detected Results
IHSS 186

Sample Location: Sample Identification Number: Date Sampled:	Total Hits >0.00	Total Hits ≥ 1	SG183194 SGG1831JE 1/16/95	SG183394 SGG1833JE 1/17/95	SG183694 SGG1836JE 1/19/95	SG183994 SGG1839JE 1/16/95	SG184094 SGG1840JE 1/16/95	SG184294 SGG1842JER 2/16/95	SG184594 SGG1845JE 1/30/95	SG184894 SGG1848JE 1/17/95	SG184994 SGG1849JE 1/17/95	SG185194 SGG1851JE 1/30/95
Test Group:GC/MS Units:µg/L												
1,1,1-Trichloroethane	4	0										
1,1-Dichloroethane	2	0						0.6				
1,1-Dichloroethene	1	0										
1,2,4-Trimethylbenzene	19	0	0.02		0.01	0.01		0.06	0.01		0.01	0.05
1,3,5-Trimethylbenzene	4	0	0.01					0.02				0.01
2-Butanone	10	0					0.04	0.15	0.13			0.26
Acetone	17	0	0.16	0.09		0.23			0.43			0.72
Benzene	34	1		0.03	0.04	0.04	0.24	0.35	0.24	0.18	0.21	0.09
Bromomethane	1	0										
Carbon Disulfide	4	0										
Chloroethane	1	0						0.84				
Chloromethane	25	1		0.03		0.09				0.05	0.07	0.27
Dichlorodifluoromethane	2	0						0.27				
Ethylbenzene	32	0	0.01	0.01	0.02	0.02	0.01	0.12	0.02	0.02	0.02	0.03
Isopropylbenzene	2	0						0.01				
Methylene Chloride	1	0										0.06
Naphthalene	1	0										
Tetrachloroethene	16	0					0.07	0.38				
Toluene	18	0					0.16	0.41	0.14			0.13
Total Xylenes	2	0						0.37				
Trichloroethene	12	4					0.04	0.37				
Trichlorofluoromethane	16	3		0.06	0.08		0.29	0.07		0.34	0.09	
Vinyl Chloride	1	0										
cis-1,2-dichloroethene	5	0						0.34				
m & p-Xylenes	2	0						0.24				
n-Propylbenzene	3	0						0.03				0.01
o-Xylene	24	0	0.01		0.04	0.01		0.13	0.02	0.01	0.01	0.03
p-Isopropyltoluene	1	0										

TABLE E-3
Soil Gas Detected Results
IHSS 186

Sample Location:	SG185794	SG185894	SG185994	SG186094	SG186394	SG186494	SG186594	SG186694	SG186794	SG186894	SG186994
Sample Identification Number:	SGG1857JE	SGG1858JE	SGG1859JE	SGG1860JE	SGG1863JE	SGG1864JE	SGG1865JE*	SGG1866JE**	SGG1867JE	SGG1868JE	SGG1869JE
Date Sampled:	1/17/95	1/17/95	1/17/95	1/17/95	1/19/95	1/30/95	1/13/95	1/13/95	1/13/95	1/13/95	1/16/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane						0.03			0.03		
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene	0.01				0.02	0.03			0.01	0.01	0.02
1,3,5-Trimethylbenzene											0.01
2-Butanone						0.05					
Acetone			0.13						0.04	0.03	0.07
Benzene	0.16	0.18	0.16	0.06	0.04	0.44	0.38				0.03
Bromomethane											
Carbon Disulfide						0.11					
Chloroethane											
Chloromethane	0.03	0.04		0.05	0.04			2.9 @	0.39	0.04	
Dichlorodifluoromethane				0.04							
Ethylbenzene	0.02	0.01	0.03	0.01	0.01	0.07			0.01		0.01
Isopropylbenzene											
Methylene Chloride											
Naphthalene											
Tetrachloroethene				0.02	0.95		0.02		0.24	0.27	0.23
Toluene			0.12			0.34					
Total Xylenes											
Trichloroethene				0.06	0.03	0.16	11 @	42 @	2.5 @	1.5 @	0.14
Trichlorofluoromethane				0.27	0.09	0.7				1 @	
Vinyl Chloride											
cis-1,2-dichloroethene									0.04	0.04	
m & p-Xylenes											
n-Propylbenzene											
o-Xylene	0.01		0.01	0.01	0.02	0.02			0.01		0.01
p-Isopropyltoluene											

TABLE E-3
Soil Gas Detected Results
IHSS 186

Sample Location:	SG187094	SG187294	SG187494	SG187594	SG187694	SG187794	SG187894	SG188294	SG188394	SG188494	SG188594
Sample Identification Number:	SGG1870JE	SGG1872JE	SGG1874JE	SGG1875JE	SGG1876JE	SGG1877JE	SGG1878JE	SGG1882JE*	SGG1883JE	SGG1884JE	SGG1885JE
Date Sampled:	1/16/95	1/18/95	1/18/95	1/18/95	1/18/95	1/18/95	1/30/95	1/20/95	1/20/95	1/20/95	1/20/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane						0.06	0.6				
1,1-Dichloroethane											
1,1-Dichloroethene							0.04				
1,2,4-Trimethylbenzene	0.01								0.01	0.03	
1,3,5-Trimethylbenzene											
2-Butanone										0.07	
Acetone	0.11		0.16				0.04				
Benzene	0.07	0.63	0.13	0.06	0.27	0.29			1.3 @	0.53	0.22
Bromomethane						0.05					
Carbon Disulfide		0.07							0.17		
Chloroethane											
Chloromethane	0.03	0.04		0.03		0.13				0.06	0.04
Dichlorodifluoromethane											
Ethylbenzene	0.01	0.03	0.02		0.03	0.01			0.02	0.05	
Isopropylbenzene											
Methylene Chloride											
Naphthalene										0.05	
Tetrachloroethene	0.2	0.16								0.1	0.03
Toluene		0.23	0.14		0.12	0.11			0.55	0.5	0.12
Total Xylenes										0.11	
Trichloroethene	0.13										
Trichlorofluoromethane			0.06		0.23			2 @	0.94	0.3	
Vinyl Chloride											
cis-1,2-dichloroethene									0.06		
m & p-Xylenes										0.08	
n-Propylbenzene											
o-Xylene	0.01		0.01		0.01				0.02	0.03	
p-Isopropyltoluene											

TABLE E-3
Soil Gas Detected Results
IHSS 186

Sample Location: Sample Identification Number: Date Sampled:	SG188694 SGG1886JE 1/18/95	SG188794 SGG1887JER 1/30/95	SG188894 SGG1888JE 1/18/95	SG188994 SGG1889JE 1/18/95	SG189194 SGG1891JE 1/18/95	SG189294 SGG1892JE 1/19/95	SG189394 SGG1893JE 1/13/95	SG189494 SGG1894JE 1/13/95	SG189594 SGG1895JE 1/13/95	SG189694 SGG1896JE 1/13/95	SG189794 SGG1897JE 1/13/95
Test Group:GC/MS Units:µg/L											
1,1,1-Trichloroethane											
1,1-Dichloroethane											
1,1-Dichloroethene											
1,2,4-Trimethylbenzene		0.02		0.01							
1,3,5-Trimethylbenzene											
2-Butanone		0.04				0.07					
Acetone		0.15							0.06		0.06
Benzene	0.49		0.11	0.5		0.46	0.24			0.05	
Bromomethane											
Carbon Disulfide											
Chloroethane											
Chloromethane	0.12	0.05	0.09	0.03	0.09			0.04			0.03
Dichlorodifluoromethane											
Ethylbenzene	0.01		0.02	0.06		0.04	0.02				
Isopropylbenzene				0.01							
Methylene Chloride											
Naphthalene											
Tetrachloroethene						0.12				0.04	0.06
Toluene	0.17			0.24		0.21	0.21				
Total Xylenes											
Trichloroethene			0.06								
Trichlorofluoromethane											1.4 @
Vinyl Chloride											
cis-1,2-dichloroethene			0.06								
m & p-Xylenes											
n-Propylbenzene				0.01							
o-Xylene			0.02	0.02		0.02					
p-Isopropyltoluene											

TABLE E-3
Soil Gas Detected Results
IHSS 186

Sample Location: Sample Identification Number: Date Sampled:	SG189894 SGG1898JE 1/13/95	SG189994 SGG1899JE 1/30/95
Test Group:GC/MS Units:µg/L		
1,1,1-Trichloroethane		
1,1-Dichloroethane	0.06	
1,1-Dichloroethene		
1,2,4-Trimethylbenzene		0.02
1,3,5-Trimethylbenzene		
2-Butanone	0.05	0.09
Acetone	0.17	0.2
Benzene	0.11	0.3
Bromomethane		
Carbon Disulfide		0.05
Chloroethane		
Chloromethane		
Dichlorodifluoromethane		
Ethylbenzene	0.01	0.04
Isopropylbenzene		
Methylene Chloride		
Naphthalene		
Tetrachloroethene		0.09
Toluene		0.25
Total Xylenes		
Trichloroethene		
Trichlorofluoromethane		
Vinyl Chloride	0.26	
cis-1,2-dichloroethene		
m & p-Xylenes		
n-Propylbenzene		
o-Xylene		0.03
p-Isopropyltoluene		0.02

APPENDIX E-4

Analytes Detected by IHSS

TABLE E-4
Soil-Gas Analytes Detected by IHSS

IHSS NUMBER	117.1	117.2	117.3	128	134	148	152	157.1	158	171	186	197	134N	134S	148S	158N
1,1,1-Trichloroethane		X							X	X						X
1,1,2-Trichloroethane														X		
1,1-Dichloroethane		X							X							X
1,1-Dichloroethene		X							X	X						X
1,2,4-Trimethylbenzene		X							X							
1,3,5-Trimethylbenzene									X							
2-Butanone		X														
Acetone	X	X			X	X	X		X	X			X	X		
Benzene	X	X	X		X	X	X		X	X	X	X	X	X		X
Bromomethane		X														
Carbazole		X							X							
Carbon Tetrachloride	X	X														
Chloroethane		X			X				X				X			
Chloroform	X	X														
Chloromethane		X					X			X	X					
cis-1,2-Dichloroethene		X							X	X		X	X			X
Dichlorodifluoromethane		X							X				X			
Ethylbenzene		X				X			X					X		
m & p-Xylenes	X	X				X			X				X	X		
Methane		X							X	X			X	X		
Naphthalene		X														
o-Xylene		X				X			X				X	X		
Propylbenzene									X							
Tetrachloroethene	X	X			X	X		X	X	X		X	X	X		X
Toluene	X	X			X	X			X			X		X		X
Total Xylenes	X	X				X			X				X	X		
trans-1,2-Dichloroethene		X														
Trichloroethene	X	X							X	X	X	X	X			X
Trichlorofluoromethane	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Vinyl Chloride		X			X		X		X	X			X	X		X

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
2		169.chn	45	7.5	53	F8	7E+05	2E+06	15.0	3.2	1.4	1.11	4.8	0.16	1.65	3.6	0.18	0.0		4.1	0.19	27.6	0.16	0.25	13.0	0.10	1.2	25.4	0.9	0.0		0.0	8.0	0
2		189.chn	45	7.5	53	G8	7E+05	2E+06	13.0	3.4	1.3	0.83	5.8	0.14	1.13	4.7	0.16	0.0		4.1	0.00		0.00	0.17	16.0	0.08	0.9	34.0	0.9	0.0		0.0	7.0	0
2		204.chn	45	7.5	53	H8	7E+05	2E+06	15.1	3.2	1.4	1.07	4.7	0.15	1.27	4.4	0.17	0.0		4.1	0.00		0.00	0.18	15.6	0.08	1.3	23.9	0.9	0.0		0.0	7.6	0
2		224.chn	45	7.5	53	I8	7E+05	2E+06	11.8	3.7	1.3	1.04	5.0	0.16	1.38	4.1	0.17	0.0		4.1	0.00		0.00	0.57	6.6	0.11	5.3	6.5	1.0	0.0		0.0	7.2	0
2		234.chn	45	7.5	53	J8	7E+05	2E+06	12.0	3.6	1.3	1.28	4.2	0.16	1.28	4.5	0.17	0.0		4.1	0.00		0.00	0.50	7.4	0.11	5.5	6.2	1.0	0.0		0.0	7.7	0
2		249.chn	45	7.5	53	K8	7E+05	2E+06	11.3	3.7	1.3	1.05	4.9	0.15	1.33	4.2	0.17	0.0		4.1	0.00		0.00	0.49	7.2	0.11	3.7	8.9	1.0	0.0		0.0	7.1	0
2		266.chn	45	7.5	53	L8	7E+05	2E+06	11.7	3.7	1.3	1.01	5.2	0.16	1.63	3.7	0.18	0.0		4.1	0.00		0.00	0.51	7.3	0.11	2.7	12.2	1.0	0.0		0.0	8.3	0
2		282.chn	45	7.5	53	M8	7E+05	2E+06	13.1	3.5	1.4	1.22	4.6	0.17	1.73	3.6	0.19	0.0		4.1	0.00		0.00	0.49	7.7	0.11	2.5	13.4	1.0	0.0		0.0	9.5	0
2		307.chn	45	7.5	53	A9	7E+05	2E+06	12.0	3.6	1.3	1.19	4.6	0.16	1.36	4.2	0.17	0.0		4.1	0.21	25.0	0.16	0.24	13.1	0.10	0.0		0.0	0.0		0.0	7.4	0
2		98.chn	45	7.5	53	B9	7E+05	2E+06	12.1	3.6	1.3	0.85	5.6	0.14	1.14	4.6	0.16	0.0		4.1	0.00		0.00	0.23	13.2	0.09	0.0		0.0	0.0		0.0	6.2	0
2		131.chn	45	7.5	53	C9	7E+05	2E+06	9.9	3.9	1.2	1.11	4.5	0.15	1.07	4.8	0.15	0.0		4.1	0.00		0.00	0.60	6.3	0.11	2.4	12.7	0.9	0.0		0.0	6.7	0
2		134.chn	45	7.5	53	D9	7E+05	2E+06	8.4	4.3	1.1	1.07	4.5	0.14	1.05	4.7	0.15	0.0		4.1	0.00		0.00	0.66	5.8	0.12	5.0	6.3	0.9	0.0		0.0	6.2	0
2		148.chn	45	7.5	53	E9	7E+05	2E+06	7.6	4.6	1.0	0.87	5.3	0.14	1.13	4.5	0.15	0.0		4.1	0.00		0.00	0.78	5.3	0.12	8.0	4.1	1.0	0.0		0.0	5.8	0
2		157.chn	45	7.5	53	F9	7E+05	2E+06	8.5	4.3	1.1	0.97	5.0	0.15	1.24	4.3	0.16	0.0		4.1	0.00		0.00	0.66	5.8	0.12	6.9	4.8	1.0	0.0		0.0	6.5	0
2		168.chn	45	7.5	53	G9	7E+05	2E+06	17.3	3.0	1.6	1.18	4.7	0.17	1.67	3.8	0.19	0.0		4.1	0.00		0.00	0.23	13.9	0.10	0.0		0.0	0.0		0.0	9.7	0
2		190.chn	45	7.5	53	H9	7E+05	2E+06	14.1	3.3	1.4	0.82	5.7	0.14	1.16	4.7	0.16	0.0		4.1	0.00		0.00	0.00		0.10	0.0		0.0	0.0		0.0	6.9	0
2		203.chn	45	7.5	53	I9	7E+05	2E+06	17.5	2.9	1.5	1.18	4.7	0.17	1.48	4.1	0.18	0.0		4.1	0.00		0.00	0.08	32.0	0.08	0.0		0.0	0.0		0.0	8.2	0
2		235.chn	45	7.5	53	J9	7E+05	2E+06	11.5	3.7	1.3	1.18	4.5	0.16	1.29	4.3	0.17	0.0		4.1	0.00		0.00	0.37	9.2	0.10	3.2	10.2	1.0	0.0		0.0	7.4	0
2		248.chn	45	7.5	53	K9	7E+05	2E+06	10.8	3.8	1.2	0.90	5.6	0.15	1.31	4.1	0.16	0.0		4.1	0.18	29.4	0.16	0.54	7.0	0.11	3.9	8.3	1.0	0.0		0.0	7.0	0
2		270.chn	45	7.5	53	L9	7E+05	2E+06	9.9	4.0	1.2	0.87	5.6	0.15	1.40	4.0	0.17	0.0		4.1	0.00		0.00	0.50	7.2	0.11	2.9	11.0	1.0	0.0		0.0	6.7	0
2		281.chn	45	7.5	53	M9	7E+05	2E+06	12.4	3.6	1.3	1.13	4.8	0.16	1.61	3.7	0.18	6.2	23.6	4.4	0.19	28.4	0.16	0.58	6.7	0.12	2.4	13.7	1.0	0.0		0.0	8.5	0
2		308.chn	45	7.5	53	A10	7E+05	2E+06	11.1	3.8	1.3	1.20	4.4	0.16	1.31	4.3	0.17	0.0		4.1	0.20	25.7	0.15	0.23	13.8	0.09	0.8	42.0	1.0	0.0		0.0	7.7	0
2		118.chn	45	7.5	53	B10	7E+05	2E+06	17.8	2.9	1.5	0.91	5.8	0.16	1.33	4.3	0.17	0.0		4.1	0.00		0.00	0.29	11.1	0.10	1.0	29.7	0.9	0.0		0.0	8.3	0
2		130.chn	45	7.5	53	C10	7E+05	2E+06	7.9	4.5	1.1	1.10	4.5	0.15	1.07	4.6	0.15	0.0		4.1	0.00		0.00	0.82	4.9	0.12	3.7	8.2	0.9	0.0		0.0	6.0	0
2		135.chn	45	7.5	53	D10	7E+05	2E+06	8.3	4.4	1.1	0.84	5.3	0.13	1.11	4.5	0.15	0.0		4.1	0.23	21.7	0.15	0.55	6.8	0.11	3.2	9.2	0.9	0.0		0.0	5.4	0
2		147.chn	45	7.5	53	E10	7E+05	2E+06	7.4	4.6	1.0	0.82	5.5	0.14	1.18	4.3	0.15	0.0		4.1	0.00		0.00	0.76	5.1	0.12	6.1	5.2	1.0	0.0		0.0	6.1	0
2		158.chn	45	7.5	53	F10	7E+05	2E+06	7.9	4.5	1.1	0.91	5.1	0.14	1.02	4.8	0.15	0.0		4.1	0.00		0.00	0.83	5.0	0.12	8.5	4.0	1.0	0.0		0.0	6.1	0
2		165.chn	45	7.5	53	G10	7E+05	2E+06	16.0	3.1	1.5	1.14	4.8	0.16	1.67	3.6	0.18	4.9	29.0	4.3	0.33	18.1	0.18	0.25	13.9	0.10	2.0	15.2	0.9	0.0		0.0	9.2	0
2		191.chn	45	7.5	53	H10	7E+05	2E+06	12.4	3.5	1.3	0.71	6.5	0.14	1.12	4.7	0.16	0.0		4.1	0.00		0.00	0.14	18.0	0.08	0.0		0.0	0.0		0.0	6.0	0
2		202.chn	45	7.5	53	I10	7E+05	2E+06	12.1	3.6	1.3	0.96	5.3	0.15	1.27	4.3	0.16	5.5	25.3	4.2	0.00		0.00	0.25	11.9	0.09	1.3	23.4	0.9	0.0		0.0	7.4	0
2		236.chn	45	7.5	53	J10	7E+05	2E+06	11.4	3.7	1.3	1.17	4.5	0.16	1.26	4.5	0.17	0.0		4.1	0.00		0.00	0.54	7.0	0.11	4.4	7.6	1.0	0.0		0.0	7.4	0
2		247.chn	45	7.5	53	K10	7E+05	2E+06	10.1	3.9	1.2	0.82	5.7	0.14	1.25	4.3	0.16	0.0		4.1	0.00		0.00	0.58	6.3	0.11	3.2	9.9	0.9	0.0		0.0	6.3	0
2		271.chn	45	7.5	53	L10	7E+05	2E+06	8.4	4.3	1.1	0.89	5.2	0.14	1.23	4.2	0.15	0.0		4.1	0.00		0.00	0.51	6.8	0.10	2.9	10.8	0.9	0.0		0.0	5.8	0
2		280.chn	45	7.5	53	M10	7E+05	2E+06	9.4	4.1	1.2	0.98	5.0	0.15	1.32	4.1	0.16	0.0		4.1	0.00		0.00	0.52	6.9	0.11	2.3	13.4	0.9	0.0		0.0	6.8	0
2		309.chn	45	7.5	53	A11	7E+05	2E+06	15.6	3.2	1.5	1.41	4.0	0.17	1.39	4.2	0.18	0.0		4.1	0.18	27.7	0.15	0.16	18.4	0.09	0.0		0.0	0.0		0.0	8.8	0
2		119.chn	45	7.5	53	B11	7E+05	2E+06	11.4	3.7	1.3	0.95	5.1	0.14	1.12	4.7	0.16	0.0		4.1	0.00		0.00	0.45	7.7	0.10	1.0	29.5	0.9	0.0		0.0	6.5	0
2		129.chn	45	7.5	53	C11	7E+05	2E+06	8.2	4.4	1.1	1.09	4.5	0.15	1.15	4.4	0.15	8.4	30.0	7.6	0.00		0.00	0.67	5.7	0.11	2.5	12.0	0.9	0.0		0.0	6.2	0
2		136.chn	45	7.5	53	D11	7E+05	2E+06	8.1	4.4	1.1	0.93	5.0	0.14	1.15	4.4	0.15	3.9	33.0	3.9	0.00		0.00	0.64	6.1	0.12	2.4	12.3	0.9	0.0		0.0	5.9	0
2		143.chn	45	7.5	53	E11	7E+05	2E+06	8.1	4.4	1.1	1.13	4.5	0.15	1.17	4.4	0.15	0.0		4.1	0.17	27.2	0.13	0.76	5.3	0.12	4.3	7.4	0.9	0.0		0.0	6.4	0
2		159.chn	45	7.5	53	F11	7E+05	2E+06	8.1	4.4	1.1	0.86	5.4	0.14	1.19	4.3	0.15	0.0		4.1	0.00		0.00	0.81	5.2	0.13	6.9	4.7	1.0	0.0		0.0	6.1	0
2		164.chn	45	7.5	53	G11	7E+05	2E+06	14.1	3.3	1.4	1.03	5.0	0.15	1.58	3.7	0.18	5.0	27.4	4.1	0.19	27.3	0.16	0.34	10.3	0.10	1.0	30.6	0.9	0.0		0.0	7.7	0
2		192.chn	45	7.5	53	H11	7E+05	2E+06	13.2	3.4	1.3	0.84	5.6	0.14	1.30	4.1	0.16	0.0		4.1	0.00		0.00	0.16	16.5	0.08	0.0		0.0	0.0		0.0	6.6	0
2		201.chn	45	7.5	53	I11	7E+05	2E+06	13.6	3.4	1.4	1.09	4.8	0.16	1.44	4.0	0.17	0.0		4.1	0.00		0.00	0.48	7.6	0.11	5.9	5.8	1.0	0.0		0.0	8.1	0
2		237.chn	45	7.5	53	J11	7E+05	2E+06	12.9	3.5	1.4	1.27	4.5	0.17	1.60	3.8	0.18	0.0		4.1	0.00		0.00	0.67	6.3	0.13	4.9	7.0	1.0	0.0		0.0	8.9	0
2		244.chn	45	7.5	53	K11	7E+05	2E+06	11.3	3.7	1.3	1.06	4.9	0.16	1.44	4.0	0.17	0.0		4.1	0.00		0.00	0.65	6.2	0.12	3.5	9.5	1.0	0.0		0.0	7.7	0
2		272.chn	45	7.5	53	L11	7E+05	2E+06	10.4	3.9	1.2	0.97	5.1	0.15	1.44	3.9	0.17	0.0		4.1	0.15	32.5	0.15	0.67	5.8	0.12	3.2	10.0	1.0	0.0		0.0	7.1	0
2		279.chn	45	7.5	53	M11	7E+05	2E+06	9.3	4.1	1.1	1.02	4.8	0.15	1.34	4.1	0.16	0.0		4.1	0.00		0.00	0.44	7.8	0.10	1.7	18.3	0.9	0.0		0.0	6.8	0
2		313.chn	45	7.5	53	A12	7E+05	2E+06	12.9	3.5	1.4	1.04	5.1	0.16	1.38	4.1	0.17	4.7	30.2	4.2	0.00		0.00	0.17	17.0	0.09	0.0		0.0	0.0		0.0	7.8	0
2		120.chn	45	7.5	53	B12	7E+05	2E+06	9.3	4.1	1.1	0.97	5.0	0.15	1.18	4.4	0.16	0.0		4.1	0.00		0.00	0.62	6.1	0.11	1.8	15.7	0.9	0.0		0.0	5.7	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
2		286.chn	45	7.5	53	L4	7E+05	2E+06	11.3	3.8	1.3	1.13	4.8	0.16	1.65	3.8	0.19	0.0		4.1	0.00		0.00	0.53	7.3	0.12	5.1	6.9	1.0	0.0		0.0	8.5	0
2		303.chn	45	7.5	53	M4	7E+05	2E+06	12.7	3.5	1.3	1.62	3.8	0.18	1.67	3.8	0.19	0.0		4.1	0.00		0.00	0.38	9.7	0.11	2.6	13.2	1.0	0.0		0.0	9.4	0
2		94.chn	45	7.5	53	A5	7E+05	2E+06	7.2	4.8	1.0	0.86	5.3	0.14	1.03	4.8	0.15	0.0		4.1	0.00		0.00	0.67	5.7	0.11	2.2	13.4	0.9	0.0		0.0	5.4	0
2		88.chn	45	7.5	53	B5	7E+05	2E+06	8.9	4.1	1.1	0.69	6.2	0.13	1.01	4.7	0.14	0.0		4.1	0.00		0.00	0.37	8.8	0.10	1.2	22.9	0.9	0.0		0.0	5.4	0
2		107.chn	45	7.5	53	C5	7E+05	2E+06	15.6	3.1	1.5	0.91	5.4	0.15	1.24	4.3	0.16	0.0		4.1	0.00		0.00	0.23	12.2	0.08	1.5	19.1	0.9	0.0		0.0	7.1	0
2		116.chn	45	7.5	53	D5	7E+05	2E+06	11.7	3.6	1.3	0.87	5.3	0.14	1.01	5.0	0.15	0.0		4.1	0.00		0.00	0.34	9.3	0.09	5.9	5.4	1.0	0.0		0.0	6.0	0
2		153.chn	45	7.5	53	E5	7E+05	2E+06	8.3	4.4	1.1	1.02	4.7	0.14	1.15	4.4	0.15	4.5	28.2	3.8	0.00		0.00	0.65	5.8	0.11	18.5	2.1	1.2	0.0		0.0	6.2	0
2		174.chn	45	7.5	53	F5	7E+05	2E+06	9.4	4.1	1.2	0.99	4.9	0.15	1.22	4.4	0.16	0.0		4.1	0.00		0.00	0.61	6.2	0.11	19.7	2.1	1.2	0.0		0.0	6.4	0
2		186.chn	45	7.5	53	G5	7E+05	2E+06	10.3	3.8	1.2	0.93	5.4	0.15	1.34	4.2	0.17	0.0		4.1	0.00		0.00	0.47	7.4	0.10	18.1	2.2	1.2	0.0		0.0	7.0	0
2		207.chn	45	7.5	53	H5	7E+05	2E+06	17.2	3.0	1.5	1.20	4.7	0.17	1.69	3.8	0.19	0.0		4.1	0.18	30.2	0.16	0.28	12.0	0.10	4.1	8.3	1.0	0.0		0.0	9.8	0
2		221.chn	45	7.5	53	I5	7E+05	2E+06	14.7	3.3	1.5	1.28	4.5	0.17	1.57	4.0	0.19	0.0		4.1	0.18	29.9	0.16	0.47	8.3	0.12	6.1	6.0	1.1	0.0		0.0	8.5	0
2		231.chn	45	7.5	53	I5	7E+05	2E+06	14.9	3.3	1.5	1.46	4.1	0.18	1.65	3.8	0.19	0.0		4.1	0.25	22.8	0.17	0.49	7.8	0.11	6.0	6.0	1.1	0.0		0.0	9.8	0
2		252.chn	45	7.5	53	J5	7E+05	2E+06	13.8	3.4	1.4	1.27	4.7	0.18	1.84	3.6	0.20	0.0		4.1	0.00		0.00	0.59	6.8	0.12	5.6	6.4	1.1	0.0		0.0	9.6	0
2		263.chn	45	7.5	53	K5	7E+05	2E+06	10.0	4.0	1.2	1.02	4.9	0.15	1.40	4.1	0.17	0.0		4.1	0.00		0.00	0.55	7.0	0.12	5.7	6.0	1.0	0.0		0.0	6.8	0
2		285.chn	45	7.5	53	L5	7E+05	2E+06	11.9	3.6	1.3	1.22	4.6	0.17	1.78	3.5	0.19	0.0		4.1	0.00		0.00	0.62	6.5	0.12	4.7	7.4	1.1	0.0		0.0	9.0	0
2		304.chn	45	7.5	53	M5	7E+05	2E+06	13.3	3.5	1.4	1.60	3.8	0.18	1.93	3.4	0.20	0.0		4.1	0.16	30.2	0.14	0.38	9.8	0.11	2.8	12.2	1.0	0.0		0.0	10.2	0
2		95.chn	45	7.5	53	A6	7E+05	2E+06	9.1	4.1	1.1	0.79	5.7	0.13	1.04	4.8	0.15	0.0		4.1	0.00		0.00	0.54	6.6	0.11	1.6	18.1	0.9	0.0		0.0	5.7	0
2		89.chn	45	7.5	53	B6	7E+05	2E+06	11.2	3.7	1.2	0.85	5.4	0.14	1.04	4.9	0.15	0.0		4.1	0.00		0.00	0.33	9.4	0.09	1.3	21.7	0.8	0.0		0.0	6.3	0
2		108.chn	45	7.5	53	C6	7E+05	2E+06	19.1	2.9	1.7	1.01	5.1	0.15	1.24	4.5	0.17	0.0		4.1	0.00		0.00	0.12	23.4	0.09	0.0		0.0	0.0		0.0	8.5	0
2		151.chn	45	7.5	53	D6	7E+05	2E+06	8.9	4.2	1.1	0.90	5.1	0.14	1.07	4.6	0.15	0.0		4.1	0.20	25.3	0.15	0.67	5.8	0.12	10.4	3.3	1.0	0.0		0.0	5.8	0
2		154.chn	45	7.5	53	E6	7E+05	2E+06	7.4	4.7	1.0	0.99	4.8	0.14	1.08	4.6	0.15	0.0		4.1	0.00		0.00	0.78	5.1	0.12	13.7	2.7	1.1	0.0		0.0	5.9	0
2		171.chn	45	7.5	53	F6	7E+05	2E+06	8.8	4.3	1.1	0.89	5.4	0.14	1.12	4.7	0.16	0.0		4.1	0.00		0.00	0.51	7.3	0.11	10.8	3.4	1.1	0.0		0.0	5.6	0
2		187.chn	45	7.5	53	G6	7E+05	2E+06	11.0	3.8	1.3	0.92	5.2	0.14	1.21	4.3	0.16	0.0		4.1	0.00		0.00	0.62	6.1	0.11	19.3	2.1	1.2	0.0		0.0	6.6	0
2		206.chn	45	7.5	53	H6	7E+05	2E+06	12.6	3.5	1.3	1.22	4.5	0.16	1.43	4.1	0.18	0.0		4.1	0.17	30.4	0.15	0.51	7.2	0.11	10.6	3.5	1.1	0.0		0.0	8.2	0
2		222.chn	45	7.5	53	I6	7E+05	2E+06	12.9	3.5	1.4	1.17	4.8	0.17	1.41	4.1	0.17	0.0		4.1	0.16	31.2	0.15	0.55	7.0	0.12	6.5	5.5	1.1	0.0		0.0	7.9	0
2		232.chn	45	7.5	53	I6	7E+05	2E+06	12.1	3.6	1.3	1.42	4.1	0.17	1.38	4.2	0.17	0.0		4.1	0.00		0.00	0.52	7.4	0.12	6.4	5.5	1.1	0.0		0.0	8.6	0
2		251.chn	45	7.5	53	J6	7E+05	2E+06	13.5	3.4	1.4	1.31	4.4	0.17	1.77	3.6	0.19	1.3	4.4	0.2	0.24	24.2	0.17	0.53	7.3	0.12	4.9	7.1	1.0	0.0		0.0	9.3	0
2		264.chn	45	7.5	53	K6	7E+05	2E+06	11.1	3.7	1.2	1.02	5.1	0.16	1.64	3.7	0.18	0.0		4.1	0.00		0.00	0.49	7.6	0.11	3.9	8.9	1.0	0.0		0.0	8.1	0
2		284.chn	45	7.5	53	L6	7E+05	2E+06	12.1	3.6	1.3	1.10	5.0	0.17	1.73	3.7	0.19	0.0		4.1	0.16	33.0	0.16	0.53	7.4	0.12	3.3	10.3	1.0	0.0		0.0	9.0	0
2		305.chn	45	7.5	53	M6	7E+05	2E+06	12.1	3.6	1.3	1.39	4.2	0.18	1.71	3.6	0.18	0.0		4.1	0.00		0.00	0.32	10.1	0.10	2.0	16.6	1.0	0.0		0.0	9.5	0
2		96.chn	45	7.5	53	A7	7E+05	2E+06	9.1	4.1	1.1	0.84	5.4	0.14	1.12	4.5	0.15	0.0		4.1	0.00		0.00	0.65	5.9	0.12	1.7	16.7	0.9	0.0		0.0	6.1	0
2		99.chn	45	7.5	53	B7	7E+05	2E+06	11.2	3.8	1.3	0.83	5.9	0.15	1.07	4.7	0.15	0.0		4.1	0.00		0.00	0.38	8.9	0.10	1.4	20.1	0.9	0.0		0.0	6.4	0
2		132.chn	45	7.5	53	C7	7E+05	2E+06	11.2	3.7	1.2	1.22	4.2	0.15	1.00	5.1	0.15	0.0		4.1	0.00		0.00	0.30	10.4	0.09	1.5	19.1	0.9	0.0		0.0	6.1	0
2		150.chn	45	7.5	53	D7	7E+05	2E+06	8.4	4.3	1.1	0.98	4.8	0.14	1.09	4.5	0.15	0.0		4.1	0.00		0.00	0.59	6.3	0.11	6.2	5.3	1.0	0.0		0.0	6.1	0
2		155.chn	45	7.5	53	E7	7E+05	2E+06	8.6	4.2	1.1	0.98	4.7	0.14	1.12	4.6	0.15	0.0		4.1	0.00		0.00	0.64	6.0	0.11	8.4	4.1	1.0	0.0		0.0	6.0	0
2		170.chn	45	7.5	53	F7	7E+05	2E+06	12.1	3.6	1.3	1.01	4.9	0.15	1.35	4.1	0.17	0.0		4.1	0.00		0.00	0.33	10.3	0.10	4.3	7.5	1.0	0.0		0.0	7.1	0
2		188.chn	45	7.5	53	G7	7E+05	2E+06	9.9	3.9	1.2	0.92	5.2	0.14	1.27	4.3	0.16	0.0		4.1	0.00		0.00	0.74	5.3	0.12	18.9	2.1	1.2	0.0		0.0	6.5	0
2		205.chn	45	7.5	53	H7	7E+05	2E+06	11.3	3.8	1.3	1.19	4.5	0.16	1.39	4.1	0.17	0.0		4.1	0.00		0.00	0.67	6.0	0.12	14.2	2.7	1.2	0.0		0.0	7.9	0
2		223.chn	45	7.5	53	I7	7E+05	2E+06	10.6	3.8	1.2	1.03	5.1	0.16	1.27	4.4	0.17	0.0		4.1	0.00		0.00	0.58	7.0	0.12	8.0	4.5	1.1	0.0		0.0	7.0	0
2		233.chn	45	7.5	53	I7	7E+05	2E+06	11.2	3.8	1.3	1.31	4.2	0.17	1.16	4.8	0.17	0.0		4.1	0.00		0.00	0.62	6.4	0.12	7.8	4.6	1.1	0.0		0.0	8.0	0
2		250.chn	45	7.5	53	J7	7E+05	2E+06	11.3	3.7	1.3	1.20	4.5	0.16	1.56	3.8	0.18	0.0		4.1	0.00		0.00	0.59	6.5	0.12	4.6	7.5	1.0	0.0		0.0	8.5	0
2		265.chn	45	7.5	53	K7	7E+05	2E+06	12.7	3.5	1.3	1.14	4.6	0.16	1.72	3.6	0.19	0.0		4.1	0.00		0.00	0.31	10.8	0.10	1.5	20.8	1.0	0.0		0.0	8.6	0
2		283.chn	45	7.5	53	L7	7E+05	2E+06	13.8	3.4	1.4	1.19	4.7	0.17	1.66	3.8	0.19	0.0		4.1	0.00		0.00	0.26	12.3	0.09	1.1	29.0	1.0	0.0		0.0	8.9	0
2		306.chn	45	7.5	53	M7	7E+05	2E+06	13.7	3.4	1.4	1.30	4.4	0.17	1.46	4.2	0.18	0.0		4.1	0.00		0.00	0.18	16.4	0.09	0.0		0.0	0.0		0.0	8.6	0
2		97.chn	45	7.5	53	A8	7E+05	2E+06	8.4	4.4	1.1	0.75	5.9	0.13	0.96	5.0	0.14	0.0		4.1	0.00		0.00	0.48	6.9	0.10	1.1	25.4	0.8	0.0		0.0	5.4	0
2		117.chn	45	7.5	53	B8	7E+05	2E+06	17.8	2.9	1.5	0.86	6.0	0.16	1.31	4.4	0.17	0.0		4.1	0.00		0.00	0.19	15.9	0.09	0.0		0.0	0.0		0.0	8.6	0
2		133.chn	45	7.5	53	C8	7E+05	2E+06	9.0	4.1	1.1	1.18	4.2	0.15	1.08	4.7	0.15	0.0		4.1	0.00		0.00	0.62	6.1	0.11	5.4	6.0	1.0	0.0		0.0	6.3	0
2		149.chn	45	7.5	53	D8	7E+05	2E+06	8.6	4.3	1.1	0.93	5.0	0.14	1.13	4.5	0.15	0.0		4.1	0.00		0.00	0.72	5.5	0.12	10.3	3.3	1.0	0.0		0.0	5.9	0
2		156.chn	45	7.5	53	E8	7E+05	2E+06	10.2	3.9	1.2	0.94	5.1	0.14	1.19	4.3	0.15	0.0		4.1	0.00		0.00	0.54	6.7	0.11	6.3	5.1	1.0	0.0		0.0	6.4	0

TABLE A

HPGe DETECTOR RESULTS FOR ALL ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE OPERABLE UNITS

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
1	130	35.chn	1A66F	6.5	44	D03	7E+05	2E+06	12.4	0.4	0.1	1.37	0.5	0.02	1.19	0.6	0.02	1.9	11.2	0.6	0.04	9.0	0.01	0.11	2.9	0.01	0.0		0.0	0.0		0.0	8.0	0
1	130	32chn	1A66F	6.5	44	E03	7E+05	2E+06	14.5	0.4	0.2	1.09	0.6	0.02	1.36	0.6	0.02	1.4	15.3	0.6	0.07	8.0	0.02	0.10	3.4	0.01	0.0		0.0	0.7	29.5	0.6	8.4	0
1	130	36.chn	1A66F	6.5	44	F03	7E+05	2E+06	12.0	0.4	0.1	0.99	0.6	0.02	1.05	0.7	0.02	1.5	13.2	0.6	0.05	9.0	0.01	0.22	1.6	0.01	0.0		0.0	0.0		0.0	7.2	0
1	130	31.chn	1A66F	6.5	44	D04	7E+05	2E+06	9.2	0.5	0.1	1.01	0.6	0.02	0.96	0.7	0.02	1.6	11.6	0.6	0.06	8.0	0.01	0.18	1.8	0.01	0.2	23.4	0.1	0.0		0.0	6.3	0
1	130	30.chn	1A66F	6.5	44	E04	7E+05	2E+06	12.7	0.4	0.2	1.20	0.6	0.02	1.26	0.6	0.02	1.5	13.5	0.6	0.05	8.0	0.01	0.08	3.8	0.01	0.4	10.9	0.1	0.0		0.0	8.2	0
1	130	39.chn	1A66F	6.5	44	F04	7E+05	2E+06	11.7	0.4	0.1	0.85	0.7	0.02	1.16	0.6	0.02	1.6	12.7	0.6	0.08	8.0	0.02	0.33	1.2	0.01	0.1	31.8	0.1	0.0		0.0	7.0	0
1	130	42.chn	1A66F	6.5	44	D05	7E+05	2E+06	8.0	0.5	0.1	0.87	0.7	0.02	0.89	0.7	0.02	1.8	7.3	0.4	0.06	8.0	0.01	0.19	1.7	0.01	0.2	20.6	0.1	0.0		0.0	5.7	0
1	119.1	14.chn	1A66F	6.5	44	E05	7E+05	2E+06	10.9	0.5	0.2	0.69	0.9	0.02	1.03	0.7	0.02	1.7	11.4	0.6	0.06	10.0	0.02	0.16	2.1	0.01	0.3	12.9	0.1	0.0		0.0	8.2	0
1	119.1	8.chn	1A66F	6.5	44	F05	7E+05	2E+06	11.1	0.4	0.1	0.70	0.8	0.02	1.10	0.6	0.02	1.7	11.3	0.6	0.07	8.0	0.02	0.32	1.2	0.01	0.0		0.0	0.0		0.0	6.6	0
1	119.1	43.chn	1A66F	6.5	44	D06	7E+05	2E+06	10.3	0.5	0.2	0.93	0.7	0.02	1.00	0.7	0.02	1.5	12.4	0.6	0.08	7.0	0.02	0.30	1.3	0.01	0.0		0.0	0.0		0.0	6.6	0
1	119.1	10.chn	1A66F	6.5	44	E06	7E+05	2E+06	11.2	0.4	0.1	0.92	0.7	0.02	1.29	0.6	0.02	3.5	5.9	0.6	0.11	6.0	0.02	0.17	2.0	0.01	0.0		0.0	0.0		0.0	7.5	0
1	119.1	9.chn	1A66F	6.5	44	F06	7E+05	2E+06	13.4	0.4	0.2	0.84	0.7	0.02	1.31	0.6	0.02	2.0	10.4	0.6	0.10	7.0	0.02	0.18	2.0	0.01	0.2	17.2	0.1	0.0		0.0	7.8	0
1	119.1	47.chn	1A66F	6.5	44	D07	7E+05	2E+06	11.0	0.4	0.1	1.07	0.6	0.02	1.08	0.6	0.02	1.8	11.0	0.6	0.08	7.0	0.02	0.28	1.3	0.01	0.1	32.1	0.1	0.0		0.0	7.0	0
1	119.1	11.chn	1A66F	6.5	44	E07	7E+05	2E+06	12.6	0.4	0.2	0.84	0.7	0.02	1.45	0.5	0.02	2.1	9.7	0.6	0.11	6.0	0.02	0.22	1.7	0.01	0.1	33.0	0.1	0.0		0.0	9.9	0
1	119.1	17.chn	1A66F	6.5	44	D08	7E+05	2E+06	10.8	0.5	0.2	0.78	0.8	0.02	0.96	1.2	0.03	1.2	15.5	0.6	0.08	8.0	0.02	0.34	1.2	0.01	0.2	17.1	0.1	0.0		0.0	6.3	0
1	119.1	15.chn	1A66F	6.5	44	E08	7E+05	2E+06	13.4	0.4	0.2	0.94	0.7	0.02	1.51	0.5	0.02	2.0	10.3	0.6	0.10	7.0	0.02	0.26	1.5	0.01	0.0	19.2	0.0	0.0		0.0	8.3	0
1	119.2	44.chn	1A66F	6.5	44	D09	7E+05	2E+06	12.5	0.4	0.2	0.98	0.7	0.02	1.28	0.6	0.02	1.6	12.7	0.6	0.09	7.0	0.02	0.43	1.0	0.01	0.5	8.9	0.1	0.0		0.0	7.8	0
1	119.1	48.chn	1A66F	6.5	44	E09	7E+05	2E+06	12.8	0.4	0.2	1.10	0.6	0.02	1.28	0.6	0.02	1.8	11.3	0.6	0.06	8.0	0.01	0.30	1.3	0.01	0.3	16.9	0.1	0.0		0.0	8.0	0
1	119.2	21.chn	1A66F	6.5	44	D10	7E+05	2E+06	11.1	0.4	0.1	0.78	0.8	0.02	1.16	0.6	0.02	1.4	13.4	0.6	0.06	9.0	0.02	0.35	1.1	0.01	0.5	8.6	0.1	0.0		0.0	6.7	0
1	119.2	22.chn	1A66F	6.5	44	C11	7E+05	2E+06	17.3	0.4	0.2	0.75	0.8	0.02	0.92	0.7	0.02	1.5	13.8	0.6	0.05	11.0	0.02	0.10	3.3	0.01	0.0		0.0	0.0		0.0	10.1	0
1	119.2	24.chn	1A66F	6.5	44	D11	7E+05	2E+06	16.0	0.4	0.2	0.96	0.7	0.02	1.28	0.6	0.02	1.5	14.2	0.6	0.08	8.0	0.02	0.35	1.2	0.01	0.3	14.2	0.1	0.0		0.0	12.6	0
1	119.2	23.chn	1A66F	6.5	44	C12	7E+05	2E+06	14.6	0.4	0.2	0.79	0.8	0.02	1.09	0.7	0.02	1.3	15.5	0.6	0.07	9.0	0.02	0.22	1.7	0.01	0.7	6.7	0.1	0.0		0.0	10.7	0
1	119.1	201.chn	6A6	0.8493	11	10A	7E+05	2E+06	11.5	0.4	0.1	0.81	0.6	0.01	1.18	0.4	0.01	1.7	8.6	0.4	0.10	3.9	0.01	0.17	1.7	0.01	47.6	0.1	0.1	0.0			7.9	0
1	119.1	202.chn	6A6	0.7223	11	10B	7E+05	2E+06	12.0	0.4	0.1	0.84	0.6	0.02	1.26	0.4	0.02	9.7	1.7	0.5	0.83	0.8	0.02	0.13	2.1	0.01	0.1	48.0	0.1	0.0			7.9	0
1	119.1	203.chn	6A6	0.925	11	10C	7E+05	2E+06	13.2	0.3	0.1	0.86	0.6	0.02	1.36	0.4	0.02	3.0	3.7	0.3	0.44	1.4	0.02	0.12	2.3	0.01	0.2	11.8	0.1	0.0			8.2	0
1	119.2	206.chn	6A6	0.937	11	10D	7E+05	2E+06	13.2	0.3	0.1	0.76	0.6	0.01	1.00	0.5	0.01	1.3	11.5	0.4	0.04	6.3	0.01	0.40	0.8	0.01	2.2	1.3	0.1	0.0			6.9	0
2	153	120.chn	4A6	6.5	44	1	7E+05	2E+06	9.9	0.4	0.1	0.66	0.7	0.01	0.95	0.6	0.02	3.9	3.2	0.4	0.10	6.0	0.02	0.15	1.9	0.01	0.7	5.4	0.1	0.0		0.0	5.8	0
2	113	122.chn	4A6	6.5	44	3	7E+05	2E+06	9.0	0.5	0.1	0.58	0.8	0.01	0.81	0.7	0.02	5.0	2.5	0.4	0.14	5.0	0.02	0.17	1.6	0.01	1.4	2.6	0.1	0.0		0.0	5.3	0
2	113	121.chn	4A6	6.5	44	2	7E+05	2E+06	9.5	0.4	0.1	0.66	0.7	0.01	0.82	0.7	0.02	1.7	6.7	0.3	0.06	8.0	0.01	0.18	1.6	0.01	0.4	8.1	0.1	0.0		0.0	5.6	0
2		267.chn	45	7.5	53	K-2	7E+05	2E+06	13.9	3.4	1.4	1.13	4.9	0.17	1.74	3.7	0.19	0.0		4.1	0.00		0.00	0.41	9.0	0.11	8.5	4.4	1.1	0.0		0.0	8.9	0
2		292.chn	45	7.5	53	L-2	7E+05	2E+06	12.9	3.5	1.4	1.11	4.9	0.16	1.73	3.7	0.19	0.0		4.1	0.21	27.1	0.17	0.52	7.4	0.12	3.0	11.7	1.0	0.0		0.0	9.1	0
2		293.chn	45	7.5	53	M-2	7E+05	2E+06	14.4	3.3	1.4	1.07	5.0	0.16	1.44	4.1	0.18	0.0		4.1	0.26	23.3	0.18	0.33	10.2	0.10	1.7	18.6	1.0	0.0		0.0	8.4	0
2	108	123.chn	4A6	6.5	44	4	7E+05	2E+06	11.3	0.4	0.1	0.60	0.8	0.01	0.90	0.6	0.02	1.6	7.7	0.4	0.07	8.0	0.02	0.11	2.4	0.01	5.3	0.8	0.1	0.0		0.0	6.0	0
2		227.chn	45	7.5	53	I-1	7E+05	2E+06	13.4	3.4	1.4	1.13	4.9	0.17	1.67	3.8	0.19	0.0		0.0	0.21	27.8	0.18	0.56	7.2	0.12	30.2	1.6	1.4	0.0		0.0	9.1	0
2		257.chn	45	7.5	53	J-1	7E+05	2E+06	11.4	3.6	1.2	1.20	4.5	0.16	1.52	3.8	0.17	0.0		0.0	0.00		0.00	0.54	6.9	0.11	24.9	1.8	1.3	0.0		0.0	8.4	0
2		258.chn	45	7.5	53	K-1	7E+05	2E+06	11.7	3.7	1.3	1.16	4.8	0.17	1.63	3.7	0.18	0.0		0.0	0.00		0.00	0.62	6.5	0.12	15.0	2.7	1.2	0.0		0.0	8.8	0
2		298.chn	45	7.5	53	L-1	7E+05	2E+06	10.6	3.9	1.2	1.01	5.1	0.15	1.56	3.8	0.18	0.0		0.0	0.00		0.00	0.51	7.4	0.11	4.3	8.0	1.0	0.0		0.0	8.2	0
2		299.chn	45	7.5	53	M-1	7E+05	2E+06	10.8	3.8	1.2	1.31	4.2	0.17	1.70	3.6	0.18	0.0		0.0	0.00		0.00	0.47	8.2	0.11	2.0	16.6	1.0	0.0		0.0	9.3	0
2		124.chn	4A6	6.5	44	5	7E+05	2E+06	20.2	0.3	0.2	0.75	0.8	0.02	1.20	0.6	0.02	2.1	7.1	0.4	0.06	9.0	0.02	0.05	6.2	0.01	1.4	2.9	0.1	0.0		0.0	8.9	0
2		90.chn	45	7.5	53	A1	7E+05	2E+06	13.1	3.4	1.3	0.82	6.1	0.15	1.18	4.6	0.16	0.0		4.1	0.00		0.00	0.28	11.4	0.10	0.9	32.3	0.9	0.0		0.0	7.2	0
2		82.chn	45	7.5	53	B1	7E+05	2E+06	15.9	3.1	1.5	0.92	5.6	0.15	1.14	4.7	0.16	0.0		4.1	0.00		0.00	0.15	18.3	0.08	1.0	28.2	0.9	0.0		0.0	7.9	0
2		100.chn	45	7.5	53	C1	7E+05	2E+06	18.5	2.9	1.6	1.06	5.1	0.16	1.39	4.2	0.18	0.0		4.1	0.00		0.00	0.08	32.5	0.08	0.0		0.0	0.0		0.0	8.1	0
2		101.chn	45	7.5	53	C1	7E+05	2E+06	23.7	3.4	2.4	1.30	6.8	0.27	1.63	5.6	0.27	0.0		4.1	0.00		0.00	0.00		0.10	0.0		0.0	0.0		0.0	8.1	0
2		109.chn	45	7.5	53	D1	7E+05	2E+06	22.9	2.6	1.8	1.08	5.2	0.17	1.66	3.8	0.19	0.0		4.1	0.00		0.00	0.00		0.10	0.0		0.0	0.0		0.0	10.3	0
2		113.chn	45	7.5	53	E1	7E+05	2E+06	21.5	2.7	1.7	1.15	5.1	0.18	1.53	4.1	0.19	0.0		4.1	0.00		0.00	0.00		0.10	0.0		0.0	0.0		0.0	10.1	0
2		178.chn	45	7.5	53	F1	7E+05	2E+06	14.6	3.3	1.4	1.20	4.5	0.16	1.20	4.7	0.17	0.0		4.1	0.14	33.0	0.13	0.24	13.0	0.09	17.1	2.4	1.2	0.0		0.0	8.0	0
2		179.chn	45	7.5	19.4	F1	7E+05	2E+06	14.1	4.4	1.9	1.35	5.6	0.23	1.24	6.3	0.23	0.0		4.1	0.00		0.00	0.41	12.2	0.15	20.6	2.5	1.5	0.0		0.0	8.0	0
2		183.chn	45	7.5	53	G1	7E+05	2E+06	7.7	4.5	1.0	0.77	5.7	0.13	1.01	4.9	0.15	0.0		4.1	0.16	31.5	0.15	0.54	6.7	0.11	84.7	0.8	2.0	0.0		0.0	6.1	0
2		213.chn	45	7.5	19.4	G1	7E+05	2E+06	6.4	6.7	1.3	0.73	8.0	0.18	1.02	6.6	0.20	0.0		4.1	0.00		0.00	0.58	8.4	0.15	105.0	0.9	2.8	0.0		0.0	6.1	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
2		320.chn	45	7.5	53	G1	7E+05	2E+06	8.1	1.3	0.3	0.82	1.7	0.04	1.00	1.5	0.04	2.1	15.5	1.0	0.07	15.7	0.03	0.56	1.9	0.03	78.4	0.2	0.5	0.0		0.0	6.9	0
2		211.chn	45	7.5	53	H1	7E+05	2E+06	12.8	3.5	1.3	1.04	5.0	0.16	1.42	4.0	0.17	5.1	28.5	4.3	0.00		0.00	0.49	7.7	0.11	40.1	1.3	1.6	0.0		0.0	7.7	0
2		212.chn	45	7.5	19.4	H1	7E+05	2E+06	12.2	4.7	1.7	0.88	7.8	0.21	1.30	6.1	0.24	0.0		4.1	0.00		0.00	0.47	11.0	0.15	36.4	1.8	2.0	0.0		0.0	7.7	0
2		215.chn	45	7.5	53	I1	7E+05	2E+06	12.2	3.6	1.3	0.96	5.5	0.16	1.69	3.5	0.18	0.0		4.1	0.00		0.00	0.60	6.5	0.12	26.1	1.8	1.4	0.0		0.0	8.7	0
2		214.chn	45	7.5	19.4	I1	7E+05	2E+06	11.2	4.9	1.6	0.89	8.2	0.22	1.67	5.2	0.26	0.0		4.1	0.00		0.00	0.52	10.5	0.16	22.3	2.5	1.7	0.0		0.0	8.7	0
2		256.chn	45	7.5	53	J1	7E+05	2E+06	12.4	3.6	1.3	1.30	4.4	0.17	1.76	3.6	0.19	0.0		4.1	0.00		0.00	0.60	6.8	0.12	18.7	2.3	1.3	0.0		0.0	9.0	0
2		259.chn	45	7.5	53	K1	7E+05	2E+06	10.5	3.9	1.2	1.08	4.9	0.16	1.65	3.6	0.18	0.0		4.1	0.00		0.00	0.56	6.6	0.11	11.7	3.3	1.2	0.0		0.0	8.1	0
2		297.chn	45	7.5	53	L1	7E+05	2E+06	13.6	3.4	1.4	1.23	4.7	0.17	2.19	3.1	0.20	0.0		4.1	0.00		0.00	0.54	7.7	0.13	5.5	6.8	1.1	0.0		0.0	10.9	0
2		300.chn	45	7.5	53	M1	7E+05	2E+06	13.4	3.4	1.4	1.63	3.8	0.19	2.11	3.3	0.21	0.0		4.1	0.21	25.5	0.16	0.47	8.0	0.11	3.0	11.8	1.1	0.0		0.0	10.9	0
2		91.chn	45	7.5	53	A2	7E+05	2E+06	9.4	4.1	1.2	0.94	5.1	0.14	1.20	4.5	0.16	0.0		4.1	0.00		0.00	0.50	7.0	0.10	1.4	21.5	0.9	0.0		0.0	6.3	0
2		83.chn	45	7.5	53	B2	7E+05	2E+06	9.9	4.0	1.2	0.71	6.4	0.14	1.04	4.7	0.15	0.0		4.1	0.00		0.00	0.53	6.9	0.11	2.9	10.5	0.9	0.0		0.0	5.9	0
2		102.chn	45	7.5	53	C2	7E+05	2E+06	12.0	3.6	1.3	0.82	5.9	0.15	1.10	4.7	0.16	0.0		4.1	0.00		0.00	0.25	11.8	0.09	1.4	20.8	0.9	0.0		0.0	6.3	0
2		110.chn	45	7.5	53	D2	7E+05	2E+06	14.4	3.2	1.4	1.03	4.9	0.15	1.11	4.7	0.16	0.0		4.1	0.00		0.00	0.41	8.4	0.10	7.4	4.6	1.0	0.0		0.0	7.2	0
2		114.chn	45	7.5	53	E2	7E+05	2E+06	19.8	2.8	1.7	1.15	4.9	0.17	1.36	4.3	0.18	0.0		4.1	0.00		0.00	0.17	18.2	0.10	2.0	16.2	1.0	0.0		0.0	9.1	0
2		177.chn	45	7.5	53	F2	7E+05	2E+06	10.8	3.7	1.2	0.99	5.0	0.15	1.25	4.3	0.16	0.0		4.1	0.00		0.00	0.51	7.0	0.11	33.2	1.4	1.4	0.0		0.0	7.3	0
2		182.chn	45	7.5	53	G2	7E+05	2E+06	10.8	3.8	1.2	0.80	5.8	0.14	1.25	4.3	0.16	0.0		4.1	0.00		0.00	0.40	8.1	0.10	28.3	1.6	1.4	0.0		0.0	6.7	0
2		210.chn	45	7.5	53	H2	7E+05	2E+06	13.8	3.3	1.4	1.05	5.1	0.16	1.52	3.9	0.18	0.0		4.1	0.00		0.00	0.52	7.4	0.12	28.7	1.6	1.4	0.0		0.0	8.9	0
2		218.chn	45	7.5	53	I2	7E+05	2E+06	11.6	3.7	1.3	1.11	4.8	0.16	1.37	4.3	0.18	0.0		4.1	0.00		0.00	0.54	7.2	0.12	15.9	2.6	1.2	0.0		0.0	7.2	0
2		228.chn	45	7.5	53	I2	7E+05	2E+06	12.0	3.6	1.3	1.23	4.4	0.16	1.46	4.0	0.18	6.2	23.7	4.4	0.00		0.00	0.59	6.6	0.12	16.2	2.6	1.3	0.0		0.0	8.6	0
2		255.chn	45	7.5	53	J2	7E+05	2E+06	12.0	3.6	1.3	1.19	4.6	0.16	1.47	4.1	0.18	0.0		4.1	0.00		0.00	0.61	6.7	0.12	16.7	2.5	1.3	0.0		0.0	8.7	0
2		260.chn	45	7.5	53	K2	7E+05	2E+06	11.0	3.8	1.3	1.09	4.8	0.16	1.45	4.1	0.18	0.0		4.1	0.00		0.00	0.57	6.8	0.12	12.0	3.2	1.2	0.0		0.0	8.1	0
2		296.chn	45	7.5	53	L2	7E+05	2E+06	9.9	4.0	1.2	0.87	5.7	0.15	1.38	4.0	0.17	0.0		4.1	0.00		0.00	0.52	6.7	0.11	4.6	7.5	1.0	0.0		0.0	6.8	0
2		301.chn	45	7.5	53	M2	7E+05	2E+06	10.5	3.9	1.2	1.36	4.1	0.17	1.36	4.1	0.17	0.0		4.1	0.00		0.00	0.45	8.0	0.11	3.1	10.9	1.0	0.0		0.0	8.2	0
2		92.chn	45	7.5	53	A3	7E+05	2E+06	9.2	4.2	1.2	0.86	5.5	0.14	1.19	4.4	0.16	0.0		4.1	0.23	22.8	0.16	0.55	6.4	0.11	1.9	15.8	0.9	0.0		0.0	6.0	0
2		84.chn	45	7.5	53	B3	7E+05	2E+06	8.3	4.4	1.1	0.68	6.4	0.13	1.01	4.7	0.14	0.0		4.1	0.00		0.00	0.35	8.9	0.09	2.9	10.1	0.9	0.0		0.0	5.0	0
2		103.chn	45	7.5	53	C3	7E+05	2E+06	10.8	3.8	1.2	0.83	5.6	0.14	1.03	4.9	0.15	0.0		4.1	0.00		0.00	0.39	8.2	0.10	2.7	11.3	0.9	0.0		0.0	6.0	0
2		111.chn	45	7.5	53	D3	7E+05	2E+06	9.7	4.0	1.2	0.99	4.9	0.15	1.07	4.8	0.15	0.0		4.1	0.00		0.00	0.63	6.0	0.11	14.3	2.7	1.2	0.0		0.0	6.3	0
2		115.chn	45	7.5	53	E3	7E+05	2E+06	14.8	3.2	1.4	0.97	5.2	0.15	1.20	4.4	0.16	0.0		4.1	0.17	28.3	0.15	0.31	10.3	0.10	10.5	3.5	1.1	0.0		0.0	7.5	0
2		176.chn	45	7.5	53	F3	7E+05	2E+06	8.8	4.2	1.1	1.01	4.8	0.15	1.20	4.3	0.15	0.0		4.1	0.00		0.00	0.60	6.2	0.11	19.9	2.0	1.2	0.0		0.0	6.2	0
2		184.chn	45	7.5	53	G3	7E+05	2E+06	17.1	3.0	1.5	1.31	4.6	0.18	2.05	3.3	0.20	0.0		4.1	0.00		0.00	0.25	13.8	0.10	8.5	4.4	1.1	0.0		0.0	10.8	0
2		209.chn	45	7.5	53	H3	7E+05	2E+06	13.1	3.4	1.3	1.10	4.8	0.16	1.41	4.1	0.17	0.0		4.1	0.00		0.00	0.41	8.7	0.11	14.2	2.8	1.2	0.0		0.0	7.7	0
2		219.chn	45	7.5	53	I3	7E+05	2E+06	13.8	3.4	1.4	1.25	4.5	0.17	1.63	3.8	0.19	0.0		4.1	0.00		0.00	0.57	7.1	0.12	14.0	2.9	1.2	0.0		0.0	8.8	0
2		229.chn	45	7.5	53	I3	7E+05	2E+06	12.8	3.5	1.3	1.24	4.5	0.17	1.64	3.8	0.19	0.0		4.1	0.00		0.00	0.60	6.6	0.12	13.5	3.0	1.2	0.0		0.0	8.3	0
2		254.chn	45	7.5	53	J3	7E+05	2E+06	11.0	3.8	1.3	1.15	4.7	0.16	1.43	4.0	0.17	0.0		4.1	0.00		0.00	0.68	6.0	0.12	12.1	3.2	1.2	0.0		0.0	7.8	0
2		261.chn	45	7.5	53	K3	7E+05	2E+06	11.4	3.8	1.3	1.26	4.5	0.17	1.78	3.5	0.19	0.0		4.1	0.00		0.00	0.57	6.9	0.12	9.0	4.2	1.1	0.0		0.0	8.9	0
2		287.chn	45	7.5	53	L3	7E+05	2E+06	12.0	3.6	1.3	1.23	4.6	0.17	1.71	3.6	0.18	0.0		4.1	0.20	27.8	0.16	0.54	7.2	0.12	5.4	6.7	1.1	0.0		0.0	8.6	0
2		302.chn	45	7.5	53	M3	7E+05	2E+06	11.6	3.7	1.3	1.43	4.1	0.18	1.48	4.0	0.18	0.0		4.1	0.18	27.2	0.15	0.47	7.7	0.11	2.9	11.7	1.0	0.0		0.0	8.2	0
2		93.chn	45	7.5	53	A4	7E+05	2E+06	7.6	4.5	1.0	0.89	5.0	0.13	1.09	4.6	0.15	0.0		4.1	0.00		0.00	0.65	5.8	0.11	2.2	13.5	0.9	0.0		0.0	5.6	0
2		85.chn	45	7.5	53	B4	7E+05	2E+06	8.4	4.3	1.1	0.75	5.8	0.13	0.97	4.9	0.14	0.0		4.1	0.00		0.00	0.54	6.3	0.10	2.4	12.2	0.9	0.0		0.0	4.8	0
2		104.chn	45	7.5	53	C4	7E+05	2E+06	12.8	3.5	1.3	0.85	5.5	0.14	1.02	5.1	0.16	4.2	27.5	3.5	0.00		0.00	0.35	9.0	0.09	1.7	17.2	0.9	0.0		0.0	6.3	0
2		112.chn	45	7.5	53	D4	7E+05	2E+06	12.9	3.5	1.4	1.24	4.3	0.16	1.20	4.5	0.16	0.0		4.1	0.00		0.00	0.37	8.9	0.10	5.1	6.4	1.0	0.0		0.0	7.6	0
2		152.chn	45	7.5	53	E4	7E+05	2E+06	9.3	4.1	1.1	0.94	5.0	0.14	1.09	4.6	0.15	0.0		4.1	0.00		0.00	0.64	5.9	0.11	20.4	2.0	1.2	0.0		0.0	5.9	0
2		175.chn	45	7.5	53	F4	7E+05	2E+06	10.0	3.9	1.2	1.04	4.7	0.15	1.24	4.2	0.16	0.0		4.1	0.21	23.4	0.15	0.53	6.7	0.11	19.7	2.1	1.2	0.0		0.0	6.6	0
2		185.chn	45	7.5	53	G4	7E+05	2E+06	12.1	3.6	1.3	0.99	5.2	0.15	1.42	4.0	0.17	0.0		4.1	0.00		0.00	0.65	6.2	0.12	35.4	1.4	1.5	0.0		0.0	7.9	0
2		208.chn	45	7.5	53	H4	7E+05	2E+06	16.8	3.0	1.5	1.13	4.9	0.17	1.69	3.8	0.19	0.0		4.1	0.00		0.00	0.30	11.2	0.10	7.9	4.6	1.1	0.0		0.0	9.2	0
2		220.chn	45	7.5	53	I4	7E+05	2E+06	17.7	3.0	1.6	1.32	4.5	0.18	1.55	4.1	0.19	0.0		4.1	0.00		0.00	0.23	14.0	0.10	2.1	15.8	1.0	0.0		0.0	9.3	0
2		230.chn	45	7.5	53	I4	7E+05	2E+06	18.9	2.8	1.6	1.55	4.0	0.19	1.57	4.0	0.19	5.0	30.4	4.5	0.00		0.00	0.25	13.4	0.10	2.0	16.5	1.0	0.0		0.0	9.9	0
2		253.chn	45	7.5	53	J4	7E+05	2E+06	13.3	3.4	1.4	1.17	4.8	0.17	1.76	3.6	0.19	0.0		4.1	0.00		0.00	0.62	6.7	0.13	8.3	4.5	1.1	0.0		0.0	9.2	0
2		262.chn	45	7.5	53	K4	7E+05	2E+06	11.9	3.6	1.3	1.03	5.1	0.16	1.75	3.5	0.18	0.0		4.1	0.00		0.00	0.52	7.5	0.12	6.2	5.8	1.1	0.0		0.0	8.2	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
RFP		59.chn	6A6	6.5	44	7J	8E+05	2E+06	10.6	0.4	0.1	0.78	0.7	0.02	0.96	0.6	0.02	1.8	9.4	0.5	0.09	6.1	0.02	0.07	3.6	0.01	0.0		0.0	0.0		0.0	6.0	0
RFP		60.chn	6A6	6.5	44	7K	8E+05	2E+06	11.1	0.4	0.1	0.87	0.6	0.02	1.17	0.5	0.02	2.0	8.9	0.5	0.09	5.9	0.02	0.52	0.8	0.01	0.0		0.0	0.0		0.0	7.2	0
RFP		61.chn	6A6	6.5	44	7L	8E+05	2E+06	10.6	0.4	0.1	0.90	0.6	0.02	1.20	0.5	0.02	1.8	9.8	0.5	0.07	6.8	0.01	0.31	1.1	0.01	0.0		0.0	0.0		0.0	7.1	0
RFP		103.chn	6A6	1	10	8D	8E+05	2E+06	5.3	1.1	0.2	0.57	1.4	0.02	0.65	1.2	0.02	1.2	18.0	0.7	0.06	9.8	0.02	0.69	1.1	0.02	0.0		0.0	0.0		0.0	4.4	0
RFP		117.chn	6A6	6.5	44	8K	8E+05	2E+06	11.3	0.4	0.1	1.02	0.6	0.02	1.45	0.5	0.02	1.7	10.5	0.5	0.11	5.5	0.02	0.67	0.7	0.01	0.3	13.7	0.1	0.0		0.0	8.2	0
RFP		118.chn	6A6	6.5	44	8L	8E+05	2E+06	10.7	0.4	0.1	0.92	0.6	0.02	1.30	0.5	0.02	1.8	9.8	0.5	0.11	5.4	0.02	0.65	0.7	0.01	0.3	12.8	0.1	0.0		0.0	7.4	0
RFP		119.chn	6A6	6.5	44	8M	8E+05	2E+06	12.0	0.4	0.1	0.95	0.6	0.02	1.41	0.5	0.02	1.6	11.2	0.5	0.10	5.9	0.02	0.57	0.7	0.01	0.3	13.4	0.1	0.0		0.0	8.0	0
RFP		120.chn	6A6	6.5	44	8N	8E+05	2E+06	11.7	0.4	0.1	0.84	0.7	0.02	1.20	0.5	0.02	1.6	11.0	0.5	0.08	6.5	0.02	0.72	0.6	0.01	0.2	16.3	0.1	0.0		0.0	7.3	0
RFP		123.chn	6A6	6.5	44	8O	8E+05	2E+06	10.9	0.4	0.1	1.00	0.6	0.02	1.18	0.5	0.02	1.9	9.5	0.5	0.09	5.9	0.02	0.69	0.6	0.01	0.3	14.2	0.1	0.0		0.0	7.4	0
RFP		124.chn	6A6	6.5	44	8P	8E+05	2E+06	10.1	0.4	0.1	1.00	0.6	0.02	1.05	0.6	0.02	1.8	9.5	0.5	0.09	5.8	0.02	0.48	0.8	0.01	0.1	27.9	0.1	0.0		0.0	6.7	0
RFP		125.chn	6A6	6.5	44	8Q	8E+05	2E+06	8.4	0.5	0.1	0.96	0.6	0.02	0.96	0.6	0.02	1.9	6.3	0.4	0.08	5.9	0.01	0.69	0.6	0.01	0.3	14.1	0.1	0.0		0.0	6.2	0
RFP		126.chn	6A6	6.5	44	8R	8E+05	2E+06	11.2	0.4	0.1	1.07	0.6	0.02	1.30	0.5	0.02	2.1	6.2	0.4	0.08	6.0	0.02	0.78	0.6	0.01	0.2	16.1	0.1	0.0		0.0	7.9	0
RFP		129.chn	6A6	6.5	44	8S	8E+05	2E+06	11.8	0.4	0.1	1.10	0.6	0.02	1.37	0.5	0.02	1.5	12.2	0.6	0.09	6.0	0.02	0.75	0.6	0.01	0.3	12.2	0.1	0.0		0.0	8.4	0
RFP		130.chn	6A6	6.5	44	8T	8E+05	2E+06	10.2	0.4	0.1	1.14	0.5	0.02	1.19	0.5	0.02	1.5	11.7	0.5	0.09	5.6	0.02	0.56	0.7	0.01	0.0		0.0	0.0		0.0	7.4	0
RFP		131.chn	6A6	6.5	44	8U	8E+05	2E+06	11.3	0.4	0.1	1.17	0.5	0.02	1.31	0.5	0.02	2.0	9.1	0.5	0.11	5.1	0.02	0.61	0.7	0.01	0.1	32.7	0.1	0.0		0.0	8.1	0
RFP		132.chn	6A6	6.5	44	8V	8E+05	2E+06	10.5	0.4	0.1	1.07	0.5	0.02	1.13	0.6	0.02	1.6	11.2	0.5	0.08	6.2	0.01	0.61	0.7	0.01	0.2	20.7	0.1	0.0		0.0	7.4	0
RFP		135.chn	6A6	6.5	44	8W	7E+05	2E+06	11.2	0.4	0.1	1.00	0.6	0.02	1.48	0.5	0.02	1.5	11.8	0.5	0.09	6.0	0.02	0.57	0.7	0.01	0.3	11.7	0.1	0.0		0.0	7.9	0
RFP		136.chn	6A6	6.5	44	8X	7E+05	2E+06	12.4	0.4	0.1	1.08	0.6	0.02	1.60	0.4	0.02	1.6	11.5	0.6	0.08	6.3	0.02	0.74	0.6	0.01	0.5	8.8	0.1	0.0		0.0	8.8	0
RFP		137.chn	6A6	6.5	44	8Y	7E+05	2E+06	10.6	0.4	0.1	1.02	0.6	0.02	1.47	0.5	0.02	1.8	10.0	0.5	0.07	7.0	0.01	0.76	0.6	0.01	0.5	7.8	0.1	0.0		0.0	8.2	0
RFP		138.chn	6A6	6.5	44	8Z	7E+05	2E+06	9.2	0.4	0.1	0.92	0.6	0.02	1.37	0.5	0.02	2.2	5.7	0.4	0.07	7.0	0.01	0.75	0.6	0.01	0.3	11.9	0.1	0.0		0.0	7.4	0
RFP		141.chn	6A6	6.5	44	9A	7E+05	2E+06	11.1	0.4	0.1	1.18	0.5	0.02	1.55	0.5	0.02	1.5	12.7	0.6	0.09	5.9	0.02	0.82	0.6	0.01	0.4	10.1	0.1	0.0		0.0	8.6	0
RFP		142.chn	6A6	6.5	44	9B	7E+05	2E+06	9.7	0.4	0.1	1.21	0.5	0.02	1.40	0.5	0.02	1.6	10.9	0.5	0.09	5.7	0.01	0.77	0.6	0.01	0.3	12.2	0.1	0.0		0.0	8.0	0
RFP		143.chn	6A6	6.5	44	9C	7E+05	2E+06	10.8	0.4	0.1	1.26	0.5	0.02	1.54	0.5	0.02	1.8	10.2	0.6	0.08	6.1	0.01	0.71	0.7	0.01	0.3	14.0	0.1	0.0		0.0	8.7	0
IA		165.chn	6A6	6.5	44	9M	8E+05	2E+06	16.8	0.3	0.2	0.95	0.6	0.02	1.21	0.5	0.02	2.6	7.4	0.6	0.07	7.3	0.01	0.02	12.8	0.01	0.2	17.8	0.1	0.0		0.0	8.0	10
IA		166.chn	6A6	6.5	44	9N	8E+05	2E+06	17.4	0.3	0.2	0.94	0.6	0.02	1.23	0.5	0.02	1.9	10.3	0.6	0.06	7.4	0.01	0.02	13.7	0.01	0.3	14.2	0.1	0.0		0.0	8.3	0
IA		169.chn	6A6	6.5	44	9O	8E+05	2E+06	15.0	0.3	0.1	0.84	0.7	0.02	1.17	0.5	0.02	1.8	10.3	0.6	0.07	6.9	0.02	0.06	5.0	0.01	1.2	3.1	0.1	0.0		0.0	7.5	20
IA		170.chn	6A6	6.5	44	9P	8E+05	2E+06	14.2	0.3	0.1	0.79	0.7	0.02	1.11	0.6	0.02	1.8	10.0	0.5	0.07	7.3	0.02	0.08	3.6	0.01	1.5	2.4	0.1	0.0		0.0	7.1	20
IA		171.chn	6A6	6.5	44	9Q	8E+05	2E+06	14.3	0.3	0.1	0.78	0.7	0.02	1.11	0.6	0.02	1.9	9.6	0.5	0.07	7.0	0.02	0.08	3.5	0.01	1.5	2.5	0.1	0.0		0.0	7.0	20
IA		174.chn	6A6	6.5	44	9R	7E+05	2E+06	21.0	0.3	0.2	1.06	0.6	0.02	1.72	0.4	0.02	1.8	11.7	0.6	0.07	7.3	0.02	0.01	23.0	0.01	1.6	2.6	0.1	0.5	41.0	0.6	10.2	20
IA		175.chn	6A6	6.5	44	9S	7E+05	2E+06	18.7	0.3	0.2	1.11	0.6	0.02	1.16	0.6	0.02	2.0	9.7	0.6	0.06	7.4	0.01	0.03	9.3	0.01	0.2	19.9	0.1	0.0		0.0	8.4	10
IA		178.chn	6A6	6.5	44	9T	7E+05	2E+06	18.1	0.3	0.2	0.88	0.7	0.02	1.16	0.6	0.02	2.1	6.5	0.4	0.06	7.9	0.01	0.06	4.7	0.01	0.0		0.0	0.0		0.0	8.2	10
IA		179.chn	6A6	6.5	44	9U	7E+05	2E+06	14.4	0.3	0.1	0.79	0.7	0.02	1.00	0.6	0.02	1.6	11.4	0.5	0.08	6.8	0.02	0.06	4.9	0.01	0.0		0.0	0.0		0.0	6.9	10
IA		180.chn	6A6	6.5	44	9V	7E+05	2E+06	16.7	0.3	0.2	0.82	0.7	0.02	1.24	0.5	0.02	1.8	10.5	0.6	0.09	6.7	0.02	0.07	3.9	0.01	0.0		0.0	0.0		0.0	7.9	5
IA		181.chn	6A6	6.5	44	9W	7E+05	2E+06	13.6	0.4	0.2	0.75	0.7	0.02	1.11	0.6	0.02	1.7	10.5	0.5	0.07	7.4	0.02	0.09	3.0	0.01	0.0		0.0	0.0		0.0	6.9	0

Am-241 = americium-241 Cs-137 = cesium-137 FOV = field of view K-40 = potassium-40 m = meter MDA = maximum detectable activity pCi/g = picocuries per gram

Pu-239 = plutonium-239 Ra-226 = radium-226 Th-232 = thorium-232 U-235 = uranium-235 U-238 = uranium-238 μR/h = micro Roentgens per hour

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
13	186	47.chn	4A6	6.5	44	I	8E+05	2E+06	16.6	0.7	0.3	0.83	1.3	0.03	1.04	1.2	0.04	2.0	12.7	0.8	0.09	13.0	0.04	0.00		0.02	0.2	45.0	0.2	0.0		1.2	7.7	70
13	152	287.chn	4A6	6.5	44	5B	7E+05	2E+06	19.7	0.3	0.2	0.77	0.7	0.02	1.12	0.6	0.02	1.8	7.5	0.4	0.05	9.0	0.01	0.04	7.2	0.01	0.2	15.3	0.1	0.0		1.2	8.4	0
13	158	64.chn	4A6	6.5	44	U	7E+05	2E+06	15.4	0.7	0.3	1.02	1.1	0.03	1.11	1.2	0.04	2.0	13.1	0.8	0.04	18.0	0.02	0.03	17.3	0.02	0.0		0.2	0.0		1.2	7.9	30
13	117.3	49.chn	4A6	6.5	44	K	7E+05	2E+06	13.8	0.7	0.3	0.82	1.3	0.03	1.18	1.1	0.04	2.7	11.4	0.9	0.09	13.0	0.03	0.07	7.0	0.02	0.3	23.7	0.2	0.0		1.2	7.5	5
13	117.1	33.chn	6A6	6.5	44	6W	8E+05	2E+06	20.5	0.3	0.2	0.80	0.7	0.02	1.25	0.5	0.02	2.2	6.3	0.4	0.08	7.4	0.02	0.09	31.6	0.08	0.0		0.2	0.0		0.4	8.7	0
13	152	286.chn	4A6	6.5	44	5A	7E+05	2E+06	14.0	0.4	0.2	0.71	0.7	0.01	0.98	0.6	0.02	1.8	6.8	0.4	0.07	8.0	0.02	0.06	4.4	0.01	0.3	11.0	0.1	0.0		0.4	6.8	0
13	117.3	51.chn	4A6	6.5	44	N	7E+05	2E+06	13.7	0.7	0.3	0.70	1.4	0.03	0.99	1.2	0.04	2.2	11.3	0.7	0.04	19.0	0.03	0.06	9.0	0.02	0.2	29.0	0.2	0.0		1.2	6.9	0
13	158	63.chn	4A6	6.5	44	T	7E+05	2E+06	20.1	0.6	0.4	1.12	1.1	0.04	1.31	1.1	0.04	2.3	13.0	0.9	0.03	18.0	0.02	0.00		0.02	0.5	15.0	0.2	0.0		1.2	9.6	0
13	158	62.chn	4A6	6.5	44	S	7E+05	2E+06	20.9	0.6	0.4	0.99	1.2	0.04	1.23	1.1	0.04	1.9	14.7	0.8	0.07	15.0	0.03	0.00		0.02	0.3	23.5	0.2	0.0		1.2	9.6	0
13	117.2	58.chn	4A6	6.5	44	R	7E+05	2E+06	21.7	0.6	0.4	0.91	1.3	0.04	1.27	1.1	0.04	1.9	14.5	0.8	0.05	19.0	0.03	0.02	26.4	0.02	0.8	9.2	0.2	0.0		1.2	9.5	0
13	117.1	38.chn	4A6	6.5	44	C	8E+05	2E+06	16.2	0.7	0.3	0.82	1.4	0.03	1.50	0.9	0.04	2.8	9.4	0.8	0.09	13.0	0.04	0.03	20.6	0.02	0.5	13.7	0.2	0.0		1.2	8.5	25
13	117.2	65.chn	4A6	6.5	44	W	7E+05	2E+06	20.6	0.6	0.4	1.10	1.1	0.04	1.51	1.0	0.05	2.3	13.2	0.9	0.08	13.0	0.03	0.01	46.0	0.02	0.9	8.9	0.2	0.0		1.2	10.2	20
13	117.3	50.chn	4A6	6.5	44	L	7E+05	2E+06	15.7	0.7	0.3	0.82	1.3	0.03	1.11	1.1	0.04	2.2	11.5	0.8	0.08	14.0	0.03	0.03	17.4	0.02	0.6	13.1	0.2	0.0		1.2	7.8	0
13	117.1	39.chn	4A6	6.5	44	A	8E+05	2E+06	16.3	0.7	0.3	0.81	1.4	0.03	1.39	1.0	0.04	2.2	12.1	0.8	0.08	13.0	0.03	0.02	25.6	0.02	1.2	6.7	0.2	0.0		1.2	8.4	25
13	117.1	37.chn	4A6	6.5	44	D	8E+05	2E+06	11.7	0.8	0.3	0.67	1.5	0.03	0.94	1.3	0.04	2.1	12.9	0.8	0.07	15.0	0.03	0.02	21.1	0.01	2.0	3.9	0.2	0.0		1.2	6.4	10
13	117.1	44.chn	4A6	6.5	44	H	7E+05	2E+06	17.0	0.7	0.4	1.04	1.2	0.04	1.60	0.9	0.04	2.5	10.7	0.8	0.08	13.0	0.03	0.02	34.0	0.02	3.6	2.4	0.3	0.0		1.2	9.4	25
13	117.3	52.chn	4A6	6.5	44	M	7E+05	2E+06	18.8	0.6	0.3	0.74	1.5	0.03	1.12	1.2	0.04	2.4	11.1	0.8	0.06	18.0	0.03	0.04	13.7	0.02	0.8	10.1	0.2	0.0		1.2	8.3	0
13	117.2	57.chn	4A6	6.5	44	Q	7E+05	2E+06	18.5	0.6	0.3	1.00	1.2	0.04	1.74	0.8	0.04	2.4	11.5	0.8	0.10	12.0	0.03	0.02	22.9	0.02	6.3	1.5	0.3	0.0		1.2	10.0	0
13	117.2	56.chn	4A6	6.5	44	P	7E+05	2E+06	19.8	0.6	0.4	0.88	1.3	0.03	1.40	1.0	0.04	2.4	12.5	0.9	0.06	17.0	0.03	0.02	38.0	0.02	3.6	2.4	0.3	0.0		1.2	9.4	0
13	117.2	55.chn	4A6	6.5	44	O	7E+05	2E+06	21.8	0.6	0.4	0.93	1.3	0.04	1.44	1.0	0.04	2.8	12.0	1.0	0.06	17.0	0.03	0.02	24.5	0.02	1.7	4.9	0.2	0.0		1.2	10.0	0
13	117.1	32.chn	6A6	6.5	44	6V	8E+05	2E+06	22.2	0.3	0.2	1.07	0.6	0.02	1.46	0.5	0.02	2.3	6.2	0.4	0.09	6.3	0.02	0.01	22.2	0.01	0.0		0.1	0.0		0.4	9.9	20
13		82.chn	4A6	6.5	44	H	7E+05	2E+06	18.8	0.7	0.4	0.90	1.3	0.04	1.15	1.2	0.04	2.1	16.7	1.1	0.06	17.0	0.03	0.02	29.3	0.02	0.5	15.5	0.2	0.0		1.2	8.7	15
13	117.1	42.chn	4A6	6.5	44	B	8E+05	2E+06	13.6	0.7	0.3	0.91	1.2	0.03	1.08	1.2	0.04	2.0	14.0	0.8	0.12	10.0	0.04	0.03	19.0	0.01	1.5	5.4	0.2	0.0		1.2	7.5	5
13	117.1	43.chn	4A6	6.5	44	E	8E+05	2E+06	13.5	0.7	0.3	0.94	1.2	0.03	1.05	1.2	0.04	2.1	12.0	0.8	0.08	13.0	0.03	0.02	26.0	0.01	3.9	2.2	0.3	0.0		1.2	7.4	25
13	197	359.chn	4A6	6.5	44	5E	8E+05	2E+06	20.7	0.3	0.2	0.99	0.6	0.02	1.38	0.5	0.02	1.9	7.5	0.4	0.05	8.3	0.01	0.09	28.4	0.08	0.3	11.8	0.1	0.4	41.0	0.5	9.7	10
13	197	45.chn	4A6	6.5	44	F	7E+05	2E+06	21.3	0.6	0.4	1.21	1.1	0.04	1.50	1.0	0.05	3.4	9.5	1.0	0.10	12.0	0.04	0.01	40.0	0.02	22.3	0.6	0.4	1.1	35.0	1.2	10.7	5
13	197	59.chn	4A6	6.5	44	F	7E+05	2E+06	20.6	0.3	0.2	1.04	0.6	0.02	1.43	0.5	0.02	2.7	5.5	0.4	0.08	7.0	0.02	0.01	20.5	0.01	20.5	0.3	0.2	0.6	30.4	0.6	10.1	0
13	197	46.chn	4A6	6.5	44	G	7E+05	2E+06	18.3	0.6	0.3	0.99	1.2	0.04	1.18	1.1	0.04	2.7	11.5	0.9	0.08	13.0	0.03	0.02	25.6	0.02	47.7	0.4	0.6	0.0		1.2	9.3	20
13	197	357.chn	4A6	6.5	44	5C	8E+05	2E+06	23.4	0.3	0.2	1.05	0.6	0.02	1.52	0.5	0.02	2.6	5.7	0.4	0.06	8.2	0.01	0.10	28.9	0.09	2.0	2.2	0.1	0.8	16.7	0.4	10.8	15
13		83.chn	4A6	6.5	44	JJ	7E+05	2E+06	18.4	0.6	0.3	1.01	1.2	0.04	1.23	1.1	0.04	2.5	11.1	0.8	0.08	13.0	0.03	0.04	13.1	0.02	1.9	4.3	0.3	0.0		1.2	8.8	20
13	197	358.chn	4A6	6.5	44	5D	7E+05	2E+06	23.1	0.3	0.2	1.11	0.6	0.02	1.52	0.5	0.02	5.6	3.0	0.5	0.13	5.5	0.02	0.02	15.8	0.01	82.6	0.1	0.2	3.4	4.4	0.5	12.2	5
13		84.chn	4A6	6.5	44	KK	7E+05	2E+06	20.6	0.6	0.4	1.00	1.2	0.04	1.08	1.2	0.04	3.8	7.6	0.9	0.09	13.0	0.04	0.00		0.01	1.6	5.2	0.2	0.0		1.2	9.0	30
13		85.chn	4A6	6.5	44	LL	7E+05	2E+06	19.0	0.6	0.3	1.09	1.2	0.04	1.11	1.3	0.04	6.5	5.0	1.0	0.09	14.0	0.04	0.02	37.0	0.02	0.0		0.2	0.0		1.2	9.4	25
13		86.chn	4A6	6.5	44	MM	7E+05	2E+06	20.7	0.6	0.4	1.21	1.2	0.04	1.67	1.0	0.05	13.1	2.8	1.1	0.12	13.0	0.05	0.00		0.02	0.0		0.2	0.0		1.2	12.2	30
13		87.chn	4A6	6.5	44	NN	7E+05	2E+06	21.6	0.6	0.4	1.09	1.2	0.04	1.31	1.1	0.04	5.4	6.0	1.0	0.06	17.0	0.03	0.01	47.0	0.02	0.0		0.2	0.0		1.2	10.2	0
13		88.chn	4A6	6.5	44	OO	7E+05	2E+06	20.4	0.6	0.4	1.26	1.0	0.04	1.49	1.0	0.04	2.5	12.4	0.9	0.07	15.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	10.8	0
13		89.chn	4A6	6.5	44	PP	7E+05	2E+06	16.7	0.7	0.4	1.02	1.2	0.04	1.15	1.2	0.04	2.0	15.4	0.9	0.09	13.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	8.8	15
13		92.chn	4A6	6.5	44	QQ	7E+05	2E+06	19.8	0.6	0.4	1.01	1.2	0.04	1.42	1.0	0.04	2.7	11.5	0.9	0.06	17.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	9.9	40
13		93.chn	4A6	6.5	44	RR	7E+05	2E+06	20.7	0.6	0.4	1.00	1.2	0.04	1.40	1.0	0.04	3.7	8.7	1.0	0.07	15.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	9.7	60
13		94.chn	4A6	6.5	44	SS	7E+05	2E+06	19.0	0.6	0.3	1.10	1.1	0.04	1.14	1.2	0.04	8.8	3.8	1.0	0.10	13.0	0.04	0.05	11.1	0.02	0.3	32.0	0.3	0.0		1.2	9.3	10
13		96.chn	4A6	6.5	44	TT	7E+05	2E+06	15.0	0.7	0.3	0.85	2.5	0.06	1.09	2.2	0.07	49.9	1.3	1.9	0.60	6.0	0.11	0.10	13.0	0.04	1.8	6.4	0.4	0.0		1.2	23.0	40
13		97.chn	4A6	6.5	44	UU	7E+05	2E+06	22.0	0.6	0.4	0.96	1.3	0.04	1.22	1.2	0.04	4.4	7.2	0.9	0.07	16.0	0.04	0.03	21.6	0.02	0.3	26.8	0.3	0.0		1.2	9.8	0
13		98.chn	4A6	6.5	44	VV	7E+05	2E+06	17.8	0.7	0.4	0.93	1.3	0.04	1.26	1.1	0.04	1.8	16.6	0.9	0.06	18.0	0.03	0.06	9.4	0.02	1.4	6.5	0.3	0.0		1.2	8.9	0
13		100.chn	4A6	6.5	44	WW	7E+05	2E+06	15.9	0.8	0.4	0.81	1.5	0.04	1.09	1.3	0.04	2.2	13.2	0.9	0.05	20.0	0.03	0.05	11.7	0.02	1.4	6.1	0.3	0.0		1.2	7.8	0
13		99.chn	4A6	6.5	44	WW	7E+05	2E+06	15.4	0.7	0.3	0.84	1.4	0.04	1.08	1.2	0.04	2.0	13.5	0.8	0.06	17.0	0.03	0.04	12.7	0.02	1.4	5.7	0.2	0.0		1.2	7.8	0
13		101.chn	4A6	6.5	44	XX	7E+05	2E+06	16.9	0.7	0.4	0.80	1.4	0.03	1.27	1.1	0.04	0.0		0.8	0.09	14.0	0.04	0.06	9.4	0.02	3.4	2.6	0.3	0.0		1.2	8.6	0
13	197	196.chn	6A6	6.5	44	9X	7E+05	2E+06	15.5	0.3	0.1	0.93	0.6	0.02	1.12	0.6	0.02	3.3	6.2	0.6	0.11	5.8	0.02	0.05	6.2	0.01	127.0	0.1	0.4	2.2	6.2	0.4	9.4	40
13	197	197.chn	6A6	6.5	44	9Y	7E+05	2E+06	18.2	0.3	0.2	1.09	0.6	0.02	1.33	0.5	0.02	3.4	6.2	0.6	0.09	6.3	0.02	0.03	10.3	0.01	79.6	0.1	0.2	1.8	7.9	0.4	9.9	5
13	117.2	198.chn	6A6	6.5	44	9Z	7E+05	2E+06	21.2	0.3	0.2	1.21	0.5	0.02	1.76	0.4	0.02	2.3	9.5	0.6	0.07	6.9	0.02	0.02	16.7	0.01	14.6	0.4	0.2	0.7	29.9	0.6	10.7	20

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
13		207.chn	6A6	6.5	44	10E	8E+05	2E+06	11.5	0.4	0.1	0.70	0.7	0.01	0.93	0.6	0.02	1.7	10.1	0.5	0.06	2.5	0.01	0.02	10.1	0.01	2.2	1.8	0.1	0.0		0.4	5.9	30
13		210.chn	6A6	6.5	44	10F	7E+05	2E+06	34.1	0.3	0.3	1.52	0.7	0.03	2.42	0.5	0.04	10.3	4.1	1.3	1.18	1.6	0.06	0.64	1.0	0.02	468.0	0.0	0.2	27.2	1.1	0.9	70.6	0
13		213.chn	6A6	6.5	44	10G	7E+05	2E+06	20.9	0.3	0.2	0.87	0.7	0.02	1.46	0.5	0.02	5.4	4.1	0.7	0.09	7.0	0.02	0.01	35.0	0.01	5.2	1.0	0.2	1.0	15.2	0.4	9.6	10
13		214.chn	6A6	6.5	44	10H	7E+05	2E+06	21.2	0.3	0.2	0.88	0.7	0.02	1.55	0.5	0.02	4.9	5.6	0.8	0.20	4.5	0.03	0.08	4.2	0.01	452.0	0.0	0.2	8.9	1.9	0.5	15.5	10
13		215.chn	6A6	6.5	44	10I	8E+05	2E+06	18.9	0.3	0.2	0.76	0.8	0.02	1.24	0.5	0.02	1.5	13.4	0.6	0.08	7.5	0.17	0.00		0.01	0.0		0.1	0.0		0.4	8.0	30
14	161	158.chn	4A6	6.5	44	4G	7E+05	2E+06	16.2	0.4	0.2	0.74	0.8	0.02	1.04	0.6	0.02	1.7	8.3	0.4	0.06	9.0	0.02	0.05	6.1	0.01	7.1	0.7	0.1	0.0		0.0	7.7	15
14	161	159.chn	4A6	6.5	44	4H	7E+05	2E+06	16.5	0.3	0.1	0.64	0.9	0.02	1.11	0.6	0.02	1.7	8.0	0.4	0.05	10.0	0.02	0.02	12.1	0.01	11.8	0.4	0.1	1.3	10.5	0.4	7.9	0
14	161	164.chn	4A6	6.5	44	4K	7E+05	2E+06	14.6	0.4	0.2	0.78	0.7	0.02	0.86	0.7	0.02	2.3	5.8	0.4	0.06	8.0	0.02	0.03	8.9	0.01	8.5	0.6	0.2	1.8	6.8	0.4	7.2	50
14	160	163.chn	4A6	6.5	44	4J	7E+05	2E+06	20.2	0.3	0.2	1.09	0.6	0.02	1.25	0.5	0.02	2.0	6.9	0.4	0.05	8.0	0.01	0.02	12.4	0.01	1.5	2.7	0.1	0.0		0.0	9.4	0
14	160	162.chn	4A6	6.5	44	4I	7E+05	2E+06	20.1	0.3	0.2	1.01	0.6	0.02	1.17	0.6	0.02	2.1	6.8	0.4	0.05	8.0	0.01	0.03	9.5	0.01	12.4	0.4	0.1	0.5	36.0	0.5	9.1	25
14	162	140.chn	4A6	6.5	44	3U	7E+05	2E+06	20.1	0.3	0.2	1.14	0.6	0.02	1.86	0.4	0.02	3.1	4.8	0.4	0.08	7.0	0.02	0.01	35.0	0.01	0.0		0.0	0.0		0.0	11.0	50
14	162	141.chn	4A6	6.5	44	3V	7E+05	2E+06	16.3	0.3	0.1	1.09	0.6	0.02	0.92	0.7	0.02	4.9	3.0	0.4	0.05	8.0	0.01	0.00		0.00	1.3	3.3	0.1	0.0		0.0	8.3	60
14	162	143.chn	4A6	6.5	44	3X	7E+05	2E+06	18.3	0.3	0.2	0.88	0.7	0.02	0.95	0.7	0.02	6.7	2.2	0.4	0.10	6.0	0.02	0.00		0.00	0.0		0.0	0.0		0.0	8.3	60
14	162	17.chn	6A6	6.5	44	6M	7E+05	2E+06	10.6	0.4	0.1	0.72	0.7	0.02	0.84	0.7	0.02	2.6	5.4	0.4	0.16	4.8	0.02	0.03	7.5	0.01	28.2	0.3	0.3	8.0	1.7	0.4	6.5	60
14	162	18.chn	6A6	6.5	44	6N	7E+05	2E+06	24.3	0.3	0.2	1.26	0.6	0.02	2.02	0.4	0.02	4.8	5.5	0.8	0.14	6.3	0.03	0.12	3.1	0.01	1070.0	0.0	0.0	45.9	0.5	0.7	26.3	5
14	162	142.chn	4A6	6.5	44	3W	7E+05	2E+06	19.6	0.3	0.2	1.01	0.6	0.02	0.97	0.7	0.02	5.6	2.7	0.5	0.06	8.0	0.01	0.01	48.0	0.01	0.0		0.0	0.0		0.0	8.8	60
14	162	24.chn	6A6	6.5	44	6R	8E+05	2E+06	18.9	0.3	0.2	0.99	0.7	0.02	1.59	0.5	0.02	2.3	7.6	0.5	0.08	9.1	0.02	0.05	7.3	0.01	0.7	5.9	0.1	5.7	3.4	0.6	10.9	10
14	162	27.chn	6A6	6.5	44	6S	8E+05	2E+06	16.0	0.3	0.1	0.82	0.7	0.02	1.45	0.5	0.02	2.3	5.8	0.4	0.07	7.7	0.02	0.01	21.9	0.01	1.7	2.1	0.1	1.4	9.8	0.4	8.1	50
14	162	28.chn	6A6	6.5	44	6T	8E+05	2E+06	17.0	0.3	0.2	0.88	0.7	0.02	1.33	0.5	0.02	2.4	5.5	0.4	0.06	7.9	0.01	0.01	21.3	0.01	0.0		0.0	0.0		0.0	8.2	20
14	162	22.chn	6A6	6.5	44	6P	8E+05	2E+06	19.5	0.3	0.2	0.87	0.7	0.02	1.42	0.5	0.02	2.2	7.1	0.5	0.08	7.8	0.02	0.02	18.2	0.01	8.6	0.6	0.2	7.2	2.2	0.5	9.6	30
14	162	19.chn	6A6	6.5	44	6O	7E+05	2E+06	19.9	0.3	0.2	1.06	0.6	0.02	1.63	0.5	0.02	2.6	6.1	0.5	0.07	8.0	0.02	0.03	12.0	0.01	91.5	0.1	0.3	5.0	3.2	0.5	11.2	5
14	162	144.chn	4A6	6.5	44	3Y	7E+05	2E+06	18.0	0.3	0.2	0.87	0.7	0.02	1.03	0.6	0.02	8.3	1.9	0.5	0.10	7.0	0.02	0.02	16.4	0.01	0.0		0.0	0.0		0.0	8.8	50
14	162	23.chn	6A6	6.5	44	6Q	8E+05	2E+06	19.1	0.3	0.2	0.95	0.7	0.02	1.68	0.4	0.02	2.8	5.2	0.4	0.09	6.9	0.02	0.01	23.7	0.01	0.4	10.7	0.1	1.5	9.6	0.4	9.6	30
14	164.3	112.chn	4A6	6.5	44	3G	7E+05	2E+06	18.9	0.3	0.2	0.76	1.0	0.02	1.22	0.7	0.03	21.9	0.9	0.6	0.34	3.0	0.03	0.04	10.8	0.01	0.3	16.1	0.1	0.0		0.0	13.0	0
14	131	29.chn	6A6	6.5	44	6U	8E+05	2E+06	12.8	0.4	0.2	0.73	0.7	0.02	0.79	0.7	0.02	1.6	7.7	0.4	0.05	8.9	0.01	0.01	28.5	0.01	0.9	3.8	0.1	0.0		0.0	6.2	25
14	164.3	127.chn	4A6	6.5	44	3L	7E+05	2E+06	16.3	0.3	0.1	0.81	0.9	0.02	1.09	0.8	0.03	26.0	0.8	0.6	0.31	4.0	0.04	0.05	9.1	0.01	0.0		0.0	0.0		0.0	12.7	0
14	164.3	113.chn	4A6	6.5	44	3H	7E+05	2E+06	18.4	0.3	0.2	0.92	0.9	0.02	1.20	3.0	0.11	29.3	0.8	0.7	0.44	3.0	0.04	0.02	29.6	0.01	0.0		0.0	0.0		0.0	15.5	0
14	164.2	137.chn	4A6	6.5	44	3T	7E+05	2E+06	19.3	0.3	0.2	1.05	0.6	0.02	1.35	0.5	0.02	4.5	3.4	0.5	1.74	1.0	0.05	0.02	13.6	0.01	0.0		0.0	0.0		0.0	9.8	0
14	164.2	136.chn	4A6	6.5	44	3S	7E+05	2E+06	20.9	0.3	0.2	1.14	0.6	0.02	1.39	0.5	0.02	4.8	3.3	0.5	0.06	8.0	0.01	0.02	18.3	0.01	0.0		0.0	0.0		0.0	10.1	50
14	164.2	135.chn	4A6	6.5	44	3R	7E+05	2E+06	18.5	0.3	0.2	1.16	0.6	0.02	1.68	0.4	0.02	3.7	4.1	0.5	0.05	8.0	0.01	0.03	11.0	0.01	0.0		0.0	0.0		0.0	10.4	60
14	164.2	134.chn	4A6	6.5	44	3Q	7E+05	2E+06	15.2	0.3	0.1	1.15	0.5	0.02	1.26	0.5	0.02	2.2	6.4	0.4	0.07	7.0	0.01	0.05	5.3	0.01	0.1	27.7	0.1	0.0		0.0	8.5	50
14	164.2	133.chn	4A6	6.5	44	3P	7E+05	2E+06	10.8	0.4	0.1	0.96	0.6	0.02	0.93	0.6	0.02	1.9	6.9	0.4	0.04	9.0	0.01	0.07	3.9	0.01	0.0		0.0	0.0		0.0	6.6	75
14	161	96.chn	6A6	6.5	44	664E	7E+05	2E+06	24.2	0.5	0.4	0.82	1.7	0.04	1.25	1.3	0.05	16.5	2.4	1.2	0.12	13.9	0.05	0.00		0.00	30.5	0.5	0.5	4.4	8.5	1.1	11.6	40
14	161	99.chn	6A6	6.5	44	664H	7E+05	2E+06	13.8	0.6	0.2	0.62	1.4	0.03	0.54	1.5	0.02	1.7	12.3	0.6	0.03	14.9	0.01	0.00		0.00	19.7	0.5	0.3	3.5	5.9	0.6	6.1	35
BKG		12.chn	5A6	6.5	44	5W	8E+05	2E+06	6.8	0.5	0.1	0.92	0.6	0.02	1.04	0.6	0.02	1.8	6.3	0.3	0.06	6.4	0.01	0.84	0.5	0.01	0.0		0.0	0.0		0.0	6.1	0
BKG		13.chn	5A6	6.5	44	5X	8E+05	2E+06	12.4	0.4	0.1	1.13	0.5	0.02	1.25	0.5	0.02	2.3	5.8	0.4	0.10	5.5	0.02	0.78	0.6	0.01	0.0		0.0	0.0		0.0	8.3	0
BKG		4.chn	5A6	6.5	44	5S	8E+05	2E+06	8.2	0.5	0.1	0.68	0.7	0.01	1.02	0.6	0.02	1.8	6.0	0.3	0.08	6.2	0.01	0.78	0.6	0.01	0.0		0.0	0.0		0.0	6.0	0
BKG		16.chn	5A6	6.5	44	5Y	7E+05	2E+06	5.2	0.6	0.1	0.79	0.6	0.01	1.04	0.5	0.02	1.9	5.5	0.3	0.07	6.5	0.01	0.64	0.6	0.01	0.1	33.0	0.1	0.0		0.0	5.5	0
BKG		22.chn	5A6	6.5	44	5Y	7E+05	2E+06	5.3	0.6	0.1	0.74	0.7	0.02	1.06	0.5	0.02	1.8	5.7	0.3	0.07	6.1	0.01	0.65	0.6	0.01	0.0		0.0	0.0		0.0	5.5	0
BKG		21.chn	5A6	6.5	44	6B	7E+05	2E+06	5.1	0.6	0.1	0.72	0.7	0.02	1.11	0.5	0.02	2.0	5.2	0.3	0.08	5.8	0.01	0.56	0.7	0.01	0.0		0.0	0.0		0.0	5.5	0
BKG		17.chn	5A6	6.5	44	5Z	7E+05	2E+06	6.2	0.5	0.1	0.80	0.6	0.01	0.88	0.6	0.02	1.7	6.4	0.3	0.05	7.8	0.01	0.63	0.7	0.01	0.1	42.0	0.1	0.0		0.0	5.4	0
BKG		23.chn	5A6	6.5	44	5Z	7E+05	2E+06	6.2	0.6	0.1	0.70	0.7	0.01	0.90	0.6	0.02	1.6	6.8	0.3	0.06	7.2	0.01	0.63	0.6	0.01	0.0		0.0	0.0		0.0	5.2	0
BKG		9.chn	5A6	6.5	44	5V	8E+05	2E+06	11.5	0.4	0.1	0.67	0.8	0.02	0.90	0.6	0.02	1.9	6.2	0.4	0.08	6.8	0.02	0.35	1.0	0.01	0.0		0.0	0.0		0.0	6.1	0
BKG		18.chn	5A6	6.5	44	6A	8E+05	2E+06	9.5	0.4	0.1	0.87	0.6	0.02	1.00	0.6	0.02	1.8	6.4	0.3	0.07	6.3	0.01	0.65	0.6	0.01	0.0		0.0	0.0		0.0	6.4	0
BKG		8.chn	5A6	6.5	44	5U	7E+05	2E+06	12.3	0.4	0.1	0.88	0.6	0.02	1.25	0.5	0.02	1.9	6.9	0.4	0.10	5.9	0.02	0.21	1.5	0.01	0.0		0.0	0.0		0.0	7.6	0
BKG		3.chn	5A6	6.5	44	5R	8E+05	2E+06	11.6	0.4	0.1	0.75	0.7	0.02	1.08	0.6	0.02	2.0	6.1	0.4	0.08	6.6	0.02	0.35	1.0	0.01	0.0		0.0	0.0		0.0	6.8	0
BKG		7.chn	5A6	6.5	44	5T	7E+05	2E+06	12.8	0.4	0.2	0.93	0.6	0.02	1.21	0.5	0.02	2.3	5.8	0.4	0.10	5.7	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	7.8	0
CnY		388.chn	4A6	6.5	44	5P	7E+05	2E+06	10.0	0.4	0.1	0.75	0.7	0.02	0.77	0.7	0.02	1.7	6.7	0.3	0.05	8.2	0.01	0.07	3.7	0.01	0.0		0.0	0.0		0.0	5.7	0
CnY		389.chn	4A6	6.5	44	5Q	7E+05	2E+06	9.8	0.4	0.1	0.93	0.6	0.02	0.72	0.8	0.02	1.5	8.2	0.4	0.05	7.9	0.01	0.01	15.2	0.01	0.0		0.0	0.0		0.0	5.9	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
11	168	189.chn	6A6	6.5	44	6S	7E+05	2E+06	7.0	0.5	0.1	0.93	0.6	0.02	1.25	0.5	0.02	1.6	9.9	0.5	0.08	5.8	0.01	0.60	0.7	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	190.chn	6A6	6.5	44	6Q	7E+05	2E+06	6.8	0.5	0.1	0.96	0.6	0.02	1.21	0.5	0.02	1.5	9.9	0.5	0.08	5.8	0.01	0.62	0.7	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	193.chn	6A6	6.5	44	6O	7E+05	2E+06	7.4	0.5	0.1	0.91	0.6	0.02	1.26	0.5	0.02	1.6	9.9	0.5	0.08	5.7	0.01	0.54	0.7	0.01	0.0			0.0			6.4	0
12		71.chn	3A6	6.5	44	A	7E+05	2E+06	19.0	0.6	0.3	0.85	1.4	0.04	1.48	1.0	0.04	2.5	10.8	0.8	0.06	17.0	0.03	0.01	48.0	0.02	0.0		0.0	0.0		0.0	9.9	50
12		72.chn	3A6	6.5	44	A	7E+05	2E+06	19.1	0.6	0.3	0.88	1.3	0.03	1.48	1.0	0.04	2.4	12.5	0.9	0.08	15.0	0.04	0.00		0.00	0.0		0.0	0.0		0.0	9.5	30
12	136.1	20.chn	4A6	6.5	44	I	7E+05	2E+06	24.1	0.6	0.4	1.18	1.2	0.04	2.26	0.8	0.05	8.3	4.1	1.0	0.15	11.0	0.05	0.00		0.00	0.0		0.0	0.0		0.0	13.4	30
12		19.chn	4A6	6.5	44	O	7E+05	2E+06	23.4	0.6	0.4	1.05	1.2	0.04	1.95	0.8	0.05	4.3	8.0	1.0	0.11	12.0	0.04	0.00		0.00	0.0		0.0	0.0		0.0	12.1	15
12		24.chn	4A6	6.5	44	E	7E+05	2E+06	21.3	0.6	0.4	1.21	1.1	0.04	1.84	0.9	0.05	3.9	7.8	0.9	0.10	13.0	0.04	0.00		0.00	0.0		0.0	0.0		0.0	11.9	50
12	116.1	23.chn	4A6	6.5	44	G	7E+05	2E+06	23.1	0.6	0.4	1.22	1.2	0.04	2.35	0.8	0.06	10.4	3.4	1.1	0.09	14.0	0.04	0.00		0.00	0.0		0.0	0.0		0.0	13.4	30
12		73.chn	3A6	6.5	44	B	7E+05	2E+06	18.8	0.6	0.3	0.99	1.2	0.04	1.23	1.1	0.04	2.5	11.2	0.8	0.09	13.0	0.04	0.05	10.5	0.02	0.0		0.0	0.0		0.0	9.3	30
12		18.chn	4A6	6.5	44	P	7E+05	2E+06	23.0	0.6	0.4	0.96	1.3	0.04	1.73	0.9	0.05	5.3	5.8	0.9	0.07	16.0	0.04	0.00		0.00	0.0		0.0	0.0		0.0	11.2	25
12		17.chn	4A6	6.5	44	K	7E+05	2E+06	19.0	0.6	0.3	0.99	1.2	0.04	1.96	0.8	0.05	3.5	8.1	0.9	0.06	16.0	0.03	0.00		0.00	0.7	10.8	0.2	0.0		0.0	10.8	30
12		12.chn	4A6	6.5	44	M	7E+05	2E+06	16.5	0.7	0.3	0.78	1.5	0.04	1.42	1.0	0.04	2.1	14.5	0.9	0.05	20.0	0.03	0.02	32.2	0.02	2.1	4.3	0.3	0.0		0.0	8.7	0
12		74.chn	3A6	6.5	44	C	7E+05	2E+06	23.4	0.6	0.4	1.15	1.2	0.04	1.98	0.8	0.05	3.3	9.5	0.9	0.09	13.0	0.04	0.01	42.0	0.02	0.0		0.0	0.0		0.0	12.2	10
12		14.chn	4A6	6.5	44	Q	7E+05	2E+06	14.4	0.7	0.3	0.67	1.6	0.03	1.02	1.2	0.04	2.6	10.5	0.8	0.05	9.0	0.03	0.00		0.00	3.7	2.1	0.2	0.0		0.0	7.1	0
12		16.chn	4A6	6.5	44	S	7E+05	2E+06	13.7	0.7	0.3	0.59	1.7	0.03	0.91	1.3	0.04	1.7	14.1	0.7	0.04	23.0	0.03	0.00		0.00	2.7	2.8	0.2	0.0		0.0	6.6	50
12	116.2	11.chn	4A6	6.5	44	L	7E+05	2E+06	17.5	0.7	0.4	0.86	1.4	0.04	1.67	0.9	0.05	2.6	12.6	1.0	0.09	15.0	0.04	0.02	26.2	0.02	1.0	8.8	0.3	0.0		0.0	9.7	0
12		8.chn	4A6	6.5	44	J	7E+05	2E+06	21.0	0.6	0.4	1.08	1.2	0.04	2.17	0.8	0.05	3.5	9.8	1.0	0.08	15.0	0.03	0.00		0.00	1.7	5.3	0.3	0.0		0.0	12.0	40
12		5.chn	4A6	6.5	44	D	7E+05	2E+06	18.7	0.6	0.3	0.78	1.5	0.04	1.25	1.1	0.04	2.2	13.7	0.9	0.07	16.0	0.03	0.02	28.0	0.02	0.6	13.1	0.2	0.0		0.0	8.8	0
12		75.chn	3A6	6.5	44	D	7E+05	2E+06	22.4	0.6	0.4	1.03	1.2	0.04	1.71	0.9	0.05	2.5	11.9	0.9	0.09	13.0	0.04	0.02	25.3	0.02	1.0	8.4	0.2	0.0		0.0	11.2	0
12		13.chn	4A6	6.5	44	R	7E+05	2E+06	16.0	0.7	0.3	0.67	1.7	0.03	0.99	1.3	0.04	2.0	19.8	1.2	0.06	19.0	0.03	0.03	18.9	0.02	23.2	0.6	0.4	0.0		0.0	7.6	0
12		15.chn	4A6	6.5	44	R	7E+05	2E+06	16.1	0.7	0.3	0.74	1.5	0.03	1.05	1.2	0.04	2.4	12.2	0.9	0.08	14.0	0.03	0.03	18.3	0.02	26.2	0.5	0.4	0.0		0.0	7.8	0
12		7.chn	4A6	6.5	44	H	7E+05	2E+06	17.8	0.6	0.3	0.87	1.4	0.04	1.66	0.9	0.04	3.1	9.4	0.9	0.09	14.0	0.04	0.04	15.1	0.02	4.0	2.2	0.3	1.2	23.2	0.8	9.8	40
12	136.2	6.chn	4A6	6.5	44	F	7E+05	2E+06	20.7	0.6	0.4	0.92	1.3	0.04	1.77	0.9	0.05	2.4	12.2	0.9	0.11	13.0	0.04	0.04	14.6	0.02	1.2	6.8	0.2	0.0		0.0	10.8	15
12	120.2	26.chn	4A6	6.5	44	U	7E+05	2E+06	22.2	0.6	0.4	1.21	1.1	0.04	2.06	0.8	0.05	3.0	10.7	1.0	0.09	13.0	0.04	0.02	33.1	0.02	44.5	0.4	0.5	1.3	32.3	1.3	12.6	40
12	136.2	25.chn	4A6	6.5	44	T	7E+05	2E+06	17.4	0.3	0.2	0.86	0.7	0.02	0.98	0.6	0.02	2.3	6.0	0.4	0.08	7.0	0.02	0.04	7.2	0.01	9.6	0.5	0.1	0.9	13.3	0.4	7.9	10
12		1.chn	40447	1	12.4	T (H)	7E+05	2E+06	14.5	0.8	0.3	0.74	1.5	0.03	0.81	1.3	0.03	2.5	11.1	0.8	0.03	17.0	0.01	0.07	8.6	0.02	1.2	1.9	0.1	0.0		0.0	6.9	0
12	120.1	27.chn	4A6	6.5	44	V	7E+05	2E+06	13.6	0.7	0.3	0.88	1.3	0.03	1.02	1.2	0.04	3.6	7.9	0.9	0.13	10.0	0.04	0.10	5.7	0.02	80.1	0.2	0.5	4.8	5.5	0.8	9.4	0
12	120.1	28.chn	4A6	6.5	44	N	7E+05	2E+06	46.8	0.4	0.6	1.92	1.2	0.07	3.10	0.9	0.08	87.7	1.2	3.2	1.71	3.0	0.15	0.76	1.8	0.04	7990.0	0.1	12.0	403.0	0.3	3.6	142.0	50
12	120.1	31.chn	4A6	6.5	44	N	7E+05	2E+06	42.1	0.4	0.5	1.76	1.2	0.06	2.85	0.9	0.08	84.4	1.2	3.0	1.56	3.0	0.14	0.61	2.1	0.04	6990.0	0.1	10.5	356.0	0.3	3.2	116.0	0
12	147.2	109.chn	4A6	6.5	44	3D	7E+05	2E+06	11.0	0.4	0.1	0.66	1.1	0.02	1.03	0.8	0.02	19.3	1.1	0.6	0.17	6.0	0.03	0.05	8.6	0.01	0.0		0.0	0.0		0.0	9.5	30
13	148	106.chn	4A6	6.5	44	3C	7E+05	2E+06	17.6	0.6	0.3	0.95	1.2	0.03	1.10	1.2	0.04	1.9	13.9	0.8	0.09	13.0	0.03	0.03	20.2	0.02	0.0		0.2	0.0		1.2	8.2	0
13	148	103.chn	4A6	6.5	44	ZZ	7E+05	2E+06	18.8	0.6	0.3	0.94	1.3	0.04	1.52	0.9	0.04	2.2	12.4	0.8	0.09	13.0	0.03	0.04	12.7	0.02	0.0		0.2	0.0		1.2	9.6	50
13	148	105.chn	4A6	6.5	44	3B	7E+05	2E+06	17.5	0.6	0.3	0.81	1.4	0.03	1.01	1.3	0.04	1.7	15.5	0.8	0.08	14.0	0.03	0.01	39.0	0.02	0.0		0.2	0.0		1.2	7.9	40
13	148	104.chn	4A6	6.5	44	3A	7E+05	2E+06	17.6	0.6	0.3	1.03	1.2	0.04	1.11	1.2	0.04	1.9	13.8	0.8	0.08	13.0	0.03	0.03	21.3	0.02	0.0		0.2	0.0		1.2	8.7	50
13	128	70.chn	4A6	6.5	44	BB	7E+05	2E+06	19.5	0.6	0.4	0.92	1.3	0.04	1.20	1.1	0.04	1.8	21.4	1.1	0.08	13.0	0.03	0.01	47.0	0.02	0.0		0.2	0.0		1.2	8.8	15
13	171	69.chn	4A6	6.5	44	AA	7E+05	2E+06	17.2	0.6	0.3	0.85	1.3	0.03	0.95	1.3	0.04	1.8	14.3	0.8	0.08	13.0	0.03	0.02	24.7	0.01	0.0		0.2	0.0		1.2	7.6	40
13	171	67.chn	4A6	6.5	44	Y	7E+05	2E+06	20.4	0.6	0.4	1.00	1.2	0.04	0.97	1.3	0.04	2.1	12.7	0.8	0.05	16.0	0.03	0.01	43.0	0.02	0.0		0.2	0.0		1.2	8.5	10
13	134	66.chn	4A6	6.5	44	X	7E+05	2E+06	20.2	0.6	0.4	1.16	1.1	0.04	1.23	1.1	0.04	2.3	12.1	0.8	0.09	12.0	0.03	0.03	17.9	0.02	0.0		0.2	0.0		1.2	9.5	10
13	128	68.chn	4A6	6.5	44	Z	7E+05	2E+06	21.8	0.6	0.4	1.02	1.2	0.04	1.36	1.0	0.04	2.6	13.0	1.0	0.08	14.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	9.8	5
13	191	77.chn	4A6	6.5	44	FF	7E+05	2E+06	22.2	0.6	0.4	0.98	1.2	0.04	1.47	1.0	0.04	2.1	13.5	0.9	0.10	13.0	0.04	0.02	30.1	0.02	0.0		0.2	0.0		1.2	10.4	50
13	157.1	74.chn	4A6	6.5	44	CC	7E+05	2E+06	20.1	0.6	0.4	0.92	1.3	0.04	1.46	1.0	0.04	2.3	11.7	0.8	0.07	15.0	0.03	0.01	41.0	0.02	0.0		0.2	0.0		1.2	9.6	50
13	157.1	76.chn	4A6	6.5	44	EE	7E+05	2E+06	16.7	0.7	0.4	0.74	1.5	0.03	1.39	1.0	0.04	2.5	12.6	0.9	0.08	15.0	0.03	0.01	40.0	0.02	0.0		0.2	0.0		1.2	8.3	40
13	157.1	75.chn	4A6	6.5	44	DD	7E+05	2E+06	17.7	0.6	0.3	0.75	1.5	0.03	1.23	1.1	0.04	2.7	11.7	0.9	0.07	16.0	0.03	0.02	34.0	0.02	0.0		0.2	0.0		1.2	8.2	40
13	157.1	78.chn	4A6	6.5	44	GG	7E+05	2E+06	22.2	0.6	0.4	0.86	1.4	0.04	1.54	0.9	0.04	2.5	11.6	0.9	0.10	13.0	0.04	0.00		0.02	0.0		0.2	0.0		1.2	10.3	0
13	186	48.chn	4A6	6.5	44	J	8E+05	2E+06	19.1	0.6	0.3	0.95	1.2	0.03	1.05	1.2	0.04	2.2	12.1	0.8	0.04	18.0	0.02	0.00		0.02	0.0		0.2	0.0		1.2	8.3	10
13		102.chn	4A6	6.5	44	YY	7E+05	2E+06	23.4	0.6	0.4	0.97	1.3	0.04	1.63	0.9	0.04	2.4	12.1	0.9	0.07	15.0	0.03	0.00		0.02	0.0		0.2	0.0		1.2	10.9	50
13	157.1	79.chn	4A6	6.5	44	HH	7E+05	2E+06	20.2	0.6	0.4	0.83	1.4	0.03	1.22	1.1	0.04	2.0	13.9	0.8	0.09	13.0	0.04	0.02	22.3	0.02	0.0		0.2	0.0		1.2	9.1	15
13	158	71.chn	4A6	6.5	44	V	7E+05	2E+06	16.2	0.7	0.3	0.71	1.5	0.03	1.01	1.2	0.04	1.8	13.8	0.8	0.07	16.0	0.03	0.04	13.4	0.02	0.0		0.2	0.0		1.2	7.5	50

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
11	168	195.chn	4A6	6.5	44	W10	7E+05	2E+06	6.0	0.6	0.1	0.83	0.6	0.01	0.94	0.6	0.02	1.6	6.9	0.3	0.05	8.0	0.01	0.58	0.7	0.01	0.1	38.0	0.1	0.0		0.0	5.6	0
11	168	223.chn	4A6	6.5	44	W10	7E+05	2E+06	6.5	0.5	0.1	0.79	0.6	0.01	1.03	0.6	0.02	1.7	6.6	0.3	0.08	6.0	0.01	0.65	0.6	0.01	0.0		0.0	0.0		0.0	5.8	0
11	168	220.chn	4A6	6.5	44	I12	7E+05	2E+06	8.0	0.5	0.1	0.99	0.5	0.01	1.15	0.5	0.02	1.7	6.6	0.3	0.06	7.0	0.01	0.50	0.8	0.01	0.0		0.0	0.0		0.0	6.6	0
11	168	219.chn	4A6	6.5	44	K12	7E+05	2E+06	7.1	0.5	0.1	0.96	0.6	0.02	1.12	0.5	0.02	1.9	5.8	0.3	0.07	6.0	0.01	0.53	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	218.chn	4A6	6.5	44	M12	7E+05	2E+06	7.4	0.5	0.1	0.96	0.6	0.02	1.16	0.5	0.02	2.0	5.7	0.3	0.07	6.0	0.01	0.56	0.7	0.01	0.0		0.0	0.0		0.0	6.6	0
11	168	217.chn	4A6	6.5	44	O12	7E+05	2E+06	7.4	0.5	0.1	0.94	0.6	0.02	1.23	0.5	0.02	1.9	6.1	0.3	0.06	7.0	0.01	0.59	0.7	0.01	0.1	46.0	0.1	0.0		0.0	6.7	0
11	168	224.chn	4A6	6.5	44	O12	7E+05	2E+06	7.4	0.5	0.1	0.85	0.6	0.02	1.18	0.5	0.02	1.9	5.9	0.3	0.07	6.0	0.01	0.59	0.7	0.01	0.0		0.0	0.0		0.0	6.3	0
11	168	225.chn	4A6	6.5	44	O12	7E+05	2E+06	7.5	0.5	0.1	0.83	0.6	0.01	1.20	0.5	0.02	1.9	5.8	0.3	0.08	6.0	0.01	0.59	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	208.chn	4A6	6.5	44	Q12	7E+05	2E+06	6.1	0.6	0.1	0.65	0.8	0.02	0.91	0.6	0.02	1.3	8.1	0.3	0.06	8.0	0.01	0.52	0.7	0.01	0.0		0.0	0.0		0.0	5.5	0
11	168	214.chn	4A6	6.5	44	S12	7E+05	2E+06	7.0	0.5	0.1	0.91	0.6	0.02	1.14	0.5	0.02	1.8	6.2	0.3	0.07	6.0	0.01	0.70	0.6	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	213.chn	4A6	6.5	44	U12	7E+05	2E+06	6.5	0.5	0.1	0.91	0.6	0.02	1.09	0.5	0.02	1.8	6.1	0.3	0.06	7.0	0.01	0.67	0.6	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	212.chn	4A6	6.5	44	W12	7E+05	2E+06	6.9	0.5	0.1	0.86	0.6	0.02	1.05	0.6	0.02	1.7	6.4	0.3	0.07	7.0	0.01	0.61	0.7	0.01	0.0		0.0	0.0		0.0	6.1	0
11	168	233.chn	4A6	6.5	44	I14	7E+05	2E+06	6.2	0.6	0.1	0.78	0.7	0.02	0.96	0.6	0.02	1.5	7.4	0.3	0.06	7.0	0.01	0.40	0.9	0.01	0.0		0.0	0.0		0.0	5.5	0
11	168	236.chn	4A6	6.5	44	K14	7E+05	2E+06	7.3	0.5	0.1	0.94	0.6	0.02	1.12	0.5	0.02	2.0	5.8	0.3	0.05	8.0	0.01	0.50	0.8	0.01	0.0		0.0	0.0		0.0	6.3	0
11	168	237.chn	4A6	6.5	44	M14	7E+05	2E+06	7.2	0.5	0.1	1.06	0.5	0.02	1.16	0.5	0.02	2.2	5.3	0.3	0.05	7.0	0.01	0.59	0.7	0.01	0.1	25.6	0.1	0.0		0.0	6.8	0
11	168	242.chn	4A6	6.5	44	M14	7E+05	2E+06	7.5	0.5	0.1	0.74	0.7	0.02	1.21	0.5	0.02	2.2	4.9	0.3	0.07	7.0	0.01	0.63	0.6	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	238.chn	4A6	6.5	44	O14	7E+05	2E+06	7.2	0.5	0.1	1.08	0.5	0.02	1.11	0.5	0.02	1.9	6.2	0.3	0.04	7.0	0.01	0.55	0.7	0.01	0.0		0.0	0.0		0.0	6.7	0
11	168	239.chn	4A6	6.5	44	Q14	7E+05	2E+06	6.7	0.5	0.1	1.00	0.5	0.01	1.05	0.6	0.02	1.8	6.4	0.3	0.06	6.0	0.01	0.62	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	243.chn	4A6	6.5	44	S14	7E+05	2E+06	6.2	0.6	0.1	0.64	0.7	0.01	0.98	0.6	0.02	1.8	6.0	0.3	0.07	7.0	0.02	0.58	0.7	0.01	0.0		0.0	0.0		0.0	5.4	0
11	168	244.chn	4A6	6.5	44	U14	7E+05	2E+06	5.7	0.6	0.1	0.61	0.8	0.01	0.90	0.6	0.02	1.4	7.4	0.3	0.07	7.0	0.01	0.59	0.7	0.01	0.0		0.0	0.0		0.0	5.1	0
11	168	245.chn	4A6	6.5	44	W14	7E+05	2E+06	6.6	0.5	0.1	0.63	0.8	0.02	0.92	0.6	0.02	1.5	7.1	0.3	0.08	6.0	0.01	0.53	0.7	0.01	0.0		0.0	0.0		0.0	5.3	0
11	168	267.chn	4A6	6.5	44	I16	7E+05	2E+06	8.5	0.5	0.1	0.87	0.6	0.02	1.27	0.5	0.02	2.0	5.7	0.3	0.07	6.0	0.01	0.53	0.7	0.01	0.0		0.0	0.0		0.0	6.8	0
11	168	268.chn	4A6	6.5	44	K16	7E+05	2E+06	7.3	0.5	0.1	0.77	0.7	0.02	1.12	0.5	0.02	1.8	6.1	0.3	0.07	7.0	0.02	0.48	0.8	0.01	0.0		0.0	0.0		0.0	6.0	0
11	168	269.chn	4A6	6.5	44	M16	7E+05	2E+06	7.3	0.5	0.1	0.87	0.6	0.02	1.22	0.5	0.02	2.0	5.7	0.3	0.08	6.0	0.02	0.61	0.7	0.01	0.0		0.0	0.0		0.0	6.5	0
11	168	270.chn	4A6	6.5	44	O16	7E+05	2E+06	7.3	0.5	0.1	0.89	0.6	0.02	1.25	0.5	0.02	2.1	5.4	0.3	0.08	6.0	0.01	0.66	0.6	0.01	0.0		0.0	0.0		0.0	6.6	0
11	168	273.chn	4A6	6.5	44	Q16	7E+05	2E+06	8.0	0.5	0.1	0.84	0.6	0.02	1.30	0.6	0.02	2.2	5.1	0.3	0.10	5.0	0.01	0.67	0.6	0.01	0.0		0.0	0.0		0.0	6.9	0
11	168	274.chn	4A6	6.5	44	S16	7E+05	2E+06	7.7	0.5	0.1	0.83	0.6	0.01	1.25	0.5	0.02	2.1	5.3	0.3	0.09	5.0	0.01	0.71	0.6	0.01	0.0		0.0	0.0		0.0	6.7	0
11	168	275.chn	4A6	6.5	44	U16	7E+05	2E+06	6.2	0.6	0.1	0.74	0.7	0.02	1.02	0.6	0.02	1.9	5.8	0.3	0.06	8.0	0.01	0.74	0.6	0.01	0.0		0.0	0.0		0.0	5.7	0
11	168	276.chn	4A6	6.5	44	W16	7E+05	2E+06	6.3	0.5	0.1	0.76	0.6	0.01	1.02	0.6	0.02	1.9	5.6	0.3	0.07	7.0	0.01	0.77	0.6	0.01	0.0		0.0	0.0		0.0	5.8	0
11	168	264.chn	4A6	6.5	44	ORW	8E+05	2E+06	14.7	0.4	0.2	1.21	0.5	0.02	1.76	0.4	0.02	2.4	6.1	0.4	0.07	7.0	0.01	0.27	1.3	0.01	0.0		0.0	0.0		0.0	10.3	0
11	168	201.chn	4A6	6.5	44	E24	7E+05	2E+06	7.3	0.5	0.1	0.86	0.6	0.02	1.13	0.5	0.02	2.0	5.5	0.3	0.08	6.0	0.01	0.51	0.7	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	227.chn	4A6	6.5	44	H24	7E+05	2E+06	6.9	0.5	0.1	0.76	0.7	0.02	1.07	0.5	0.02	1.8	6.2	0.3	0.07	7.0	0.01	0.59	0.7	0.01	0.0		0.0	0.0		0.0	5.8	0
11	168	202.chn	4A6	6.5	44	K24	7E+05	2E+06	6.7	0.5	0.1	0.73	0.7	0.02	0.96	0.6	0.02	1.7	6.6	0.3	0.06	7.0	0.01	0.49	0.8	0.01	0.0		0.0	0.0		0.0	5.5	0
11	168	205.chn	4A6	6.5	44	N24	7E+05	2E+06	6.3	0.6	0.1	0.81	0.6	0.01	0.97	0.6	0.02	1.4	7.8	0.3	0.06	7.0	0.01	0.57	0.7	0.01	0.0		0.0	0.0		0.0	5.9	0
11	168	228.chn	4A6	6.5	44	J25	7E+05	2E+06	7.2	0.5	0.1	0.78	0.6	0.01	1.14	0.5	0.02	1.7	6.3	0.3	0.08	6.0	0.02	0.64	0.6	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	230.chn	4A6	6.5	44	M25	7E+05	2E+06	6.3	0.6	0.1	0.77	0.7	0.02	1.01	0.6	0.02	1.6	7.1	0.3	0.06	7.0	0.01	0.65	0.6	0.01	0.0		0.0	0.0		0.0	5.8	0
11	168	283.chn	4A6	6.5	44	H26	7E+05	2E+06	7.9	0.5	0.1	0.87	0.6	0.02	1.23	0.5	0.02	1.8	6.2	0.3	0.08	6.0	0.01	0.66	0.6	0.01	0.0		0.0	0.0		0.0	6.7	0
11	168	200.chn	4A6	6.5	44	F27	7E+05	2E+06	6.2	0.6	0.1	0.78	0.6	0.01	0.91	0.6	0.02	1.4	7.7	0.3	0.05	8.0	0.01	0.45	0.8	0.01	0.0		0.0	0.0		0.0	5.4	0
11	168	262.chn	4A6	6.5	44	K27	7E+05	2E+06	7.3	0.5	0.1	1.02	0.5	0.02	1.26	0.5	0.02	2.1	5.6	0.3	0.08	6.0	0.01	0.67	0.6	0.01	0.0		0.0	0.0		0.0	6.8	0
11	168	290.chn	4A6	6.5	44	M27	7E+05	2E+06	6.4	0.5	0.1	1.40	0.4	0.02	1.14	0.5	0.02	1.6	7.1	0.3	0.02	8.0	0.00	0.70	0.6	0.01	0.0		0.0	0.0		0.0	7.3	0
11	168	282.chn	4A6	6.5	44	H28	7E+05	2E+06	8.1	0.5	0.1	0.89	0.6	0.02	1.30	0.5	0.02	2.2	5.3	0.3	0.08	6.0	0.01	0.66	0.6	0.01	0.0		0.0	0.0		0.0	7.0	0
11	168	279.chn	4A6	6.5	44	J28	7E+05	2E+06	7.3	0.5	0.1	0.86	0.6	0.02	1.20	0.5	0.02	2.0	5.6	0.3	0.08	6.0	0.02	0.69	0.6	0.01	0.0		0.0	0.0		0.0	6.6	0
11	168	263.chn	4A6	6.5	44	K29	7E+05	2E+06	7.2	0.5	0.1	1.01	0.5	0.02	1.23	0.5	0.02	2.0	5.7	0.3	0.07	6.0	0.01	0.68	0.6	0.01	0.0		0.0	0.0		0.0	6.8	0
11	168	291.chn	4A6	6.5	44	M29	7E+05	2E+06	6.4	0.5	0.1	1.27	0.5	0.02	1.13	0.5	0.02	1.7	6.6	0.3	0.03	8.0	0.01	0.62	0.7	0.01	0.0		0.0	0.0		0.0	6.9	0
11	168	199.chn	4A6	6.5	44	F30	7E+05	2E+06	7.1	0.5	0.1	0.96	0.5	0.01	1.11	0.5	0.02	1.9	6.0	0.3	0.06	6.0	0.01	0.52	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	281.chn	4A6	6.5	44	H30	7E+05	2E+06	7.1	0.5	0.1	0.86	0.6	0.02	1.20	0.5	0.02	1.8	6.0	0.3	0.09	6.0	0.02	0.67	0.6	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	280.chn	4A6	6.5	44	J30	7E+05	2E+06	7.0	0.5	0.1	0.81	0.6	0.01	1.15	0.5	0.02	2.0	5.7	0.3	0.07	6.0	0.01	0.71	0.6	0.01	0.0		0.0	0.0		0.0	6.3	0
11	168	187.chn	6A6	6.5	44	6W	7E+05	2E+06	6.5	0.5	0.1	0.84	0.6	0.02	1.13	0.5	0.02	2.1	5.1	0.3	0.09	5.4	0.02	0.66	0.6	0.01	0.0		0.0	0.0		0.0	5.9	0
11	168	188.chn	6A6	6.5	44	6U	7E+05	2E+06	6.7	0.5	0.1	0.89	0.6	0.02	1.17	0.5	0.02	1.5	10.2	0.4	0.63	0.7	0.01	0.00		0.00	0.0		0.0	0.0		0.0	6.0	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
10	170	32.chn	3A6	6.5	44	F11	8E+05	2E+06	7.8	0.5	0.1	1.18	0.5	0.02	1.03	0.6	0.02	1.7	7.1	0.4	0.05	7.0	0.01	0.38	0.9	0.01	0.0		0.0	0.0		0.0	6.8	0
10	170	41.chn	3A6	6.5	44	B12	8E+05	2E+06	12.1	0.4	0.1	0.81	0.6	0.01	1.02	0.6	0.02	1.7	7.0	0.4	0.05	8.0	0.01	0.04	5.7	0.01	0.0		0.0	0.0		0.0	6.8	0
10	170	29.chn	3A6	6.5	44	C12	8E+05	2E+06	17.0	0.3	0.2	1.13	0.5	0.02	2.27	0.3	0.02	2.8	4.9	0.4	0.09	6.0	0.02	0.18	1.8	0.01	0.0		0.0	0.0		0.0	10.9	0
10	170	24.chn	3A6	6.5	44	D12	8E+05	2E+06	15.9	0.3	0.1	1.28	0.5	0.02	2.08	0.4	0.02	2.9	4.9	0.4	0.08	6.0	0.02	0.25	1.4	0.01	0.0		0.0	0.0		0.0	10.5	0
10	170	35.chn	3A6	6.5	44	E12	8E+05	2E+06	9.7	0.4	0.1	0.84	0.6	0.02	1.28	0.5	0.02	1.9	6.1	0.4	0.07	7.0	0.02	0.39	0.9	0.01	0.0		0.0	0.0		0.0	6.9	0
10	170	45.chn	3A6	6.5	44	B13	8E+05	2E+06	11.4	0.4	0.1	0.73	0.7	0.02	1.00	0.6	0.02	1.7	6.8	0.3	0.05	8.0	0.01	0.14	2.0	0.01	0.0		0.0	0.0		0.0	6.4	30
10	170	44.chn	3A6	6.5	44	C13	8E+05	2E+06	12.6	0.4	0.2	0.81	0.6	0.01	1.36	0.5	0.02	1.8	6.7	0.4	0.06	8.0	0.01	0.17	1.7	0.01	0.0		0.0	0.0		0.0	7.7	10
10	170	25.chn	3A6	6.5	44	D13	8E+05	2E+06	11.3	0.4	0.1	1.01	0.6	0.02	1.55	0.4	0.02	2.0	6.2	0.4	0.06	7.0	0.01	0.25	1.3	0.01	0.0		0.0	0.0		0.0	8.1	0
10	170	30.chn	4A6	6.5	44	E13	8E+05	2E+06	7.6	0.5	0.1	0.88	0.6	0.02	1.02	0.6	0.02	1.6	7.2	0.3	0.07	7.0	0.01	0.43	0.8	0.01	0.0		0.0	0.0		0.0	6.2	0
10		34.chn	4A6	6.5	44		7E+05	2E+06	16.5	0.7	0.3	0.69	1.8	0.04	1.17	1.2	0.04	10.8	2.9	0.9	0.15	11.0	0.05	0.00		0.00	0.2	36.0	0.2	0.0		0.0	9.3	40
10	170	43.chn	3A6	6.5	44	D14	8E+05	2E+06	6.6	0.5	0.1	0.64	0.7	0.01	0.76	0.7	0.02	1.5	7.1	0.3	0.05	8.0	0.01	0.21	1.3	0.01	0.0		0.0	0.0		0.0	4.8	30
10	182	32.chn	4A6	6.5	44	182	7E+05	2E+06	21.4	0.6	0.4	1.05	1.3	0.04	1.37	1.1	0.05	17.4	2.0	1.0	0.21	8.0	0.05	0.03	23.3	0.02	0.0		0.0	0.0		0.0	11.1	75
10	181	165.chn	4A6	6.5	44	4L	7E+05	2E+06	18.6	0.3	0.2	1.08	0.6	0.02	1.92	0.4	0.02	2.1	6.9	0.4	0.06	8.0	0.01	0.00		0.00	0.0		0.0	0.0		0.0	11.3	60
10	207	33.chn	4A6	6.5	44	207	7E+05	2E+06	18.6	0.6	0.3	1.01	1.2	0.04	1.88	0.8	0.05	3.2	9.3	0.9	0.08	15.0	0.04	0.03	20.6	0.02	2.7	3.2	0.3	0.0		0.0	10.7	50
10	177	111.chn	4A6	6.5	44	3F	7E+05	2E+06	17.3	0.3	0.2	0.73	0.8	0.02	1.01	0.6	0.02	1.7	7.6	0.4	0.06	9.0	0.02	0.04	7.0	0.01	0.0		0.0	0.0		0.0	7.9	0
10	177	110.chn	4A6	6.5	44	3E	7E+05	2E+06	21.0	0.3	0.2	0.91	0.7	0.02	1.36	0.5	0.02	2.1	6.7	0.4	0.09	7.0	0.02	0.03	9.2	0.01	0.0		0.0	0.0		0.0	9.7	20
10	214	28.chn	5A6	6.5	44	6E	7E+05	2E+06	22.1	0.3	0.2	1.07	0.6	0.02	1.65	0.5	0.02	2.6	5.9	0.5	0.07	7.6	0.02	0.01	26.6	0.01	0.2	24.2	0.1	0.0		0.0	10.9	40
10	214	14.chn	6A6	6.5	44	6L	7E+05	2E+06	21.9	0.3	0.2	0.99	0.6	0.02	1.68	0.5	0.03	2.6	5.9	0.5	0.08	7.1	0.02	0.00		0.00	0.2	21.9	0.1	0.0		0.0	10.4	50
10	214	3.chn	6A6	6.5	44	6G	7E+05	2E+06	18.0	0.3	0.2	0.87	0.7	0.02	1.35	0.5	0.02	2.2	6.7	0.4	0.05	9.3	0.01	0.00		0.00	0.0		0.0	0.0		0.0	8.7	50
10	214	4.chn	6A6	6.5	44	6H	7E+05	2E+06	21.7	0.3	0.2	1.01	0.6	0.02	1.60	0.5	0.02	2.4	6.3	0.5	0.08	7.2	0.02	0.00		#VALUE!	0.2	21.8	0.1	0.0		0.0	10.1	20
10	214	26.chn	5A6	6.5	44	6C	8E+05	2E+06	24.4	0.3	0.2	1.16	0.6	0.02	1.69	0.5	0.03	3.1	4.9	0.5	0.09	6.4	0.02	0.02	15.6	0.01	2.6	1.7	0.1	0.0		0.0	11.4	50
10	214	7.chn	6A6	6.5	44	6I	7E+05	2E+06	19.7	0.3	0.2	1.16	0.6	0.02	1.19	0.6	0.02	2.3	6.3	0.4	0.06	7.5	0.01	0.00		0.00	0.0		0.0	0.0		0.0	8.9	5
10	214	27.chn	5A6	6.5	44	6D	7E+05	2E+06	20.8	0.3	0.2	1.07	0.6	0.02	1.49	0.5	0.02	3.1	4.8	0.4	0.10	6.1	0.02	0.02	17.2	0.01	2.7	1.6	0.1	0.0		0.0	10.2	30
10	214	2.chn	6A6	6.5	44	6F	7E+05	2E+06	17.6	0.3	0.2	0.86	0.7	0.02	1.35	0.5	0.02	2.2	6.6	0.4	0.07	8.2	0.02	0.00		0.00	0.2	17.2	0.1	0.0		0.0	8.6	60
10	214	384.chn	4A6	6.5	44	5O	8E+05	2E+06	16.9	0.3	0.2	0.72	0.8	0.02	1.34	0.5	0.02	2.1	6.7	0.4	0.09	6.9	0.02	0.04	7.4	0.01	1.1	3.5	0.1	0.0		0.0	8.3	50
10	214	383.chn	4A6	6.5	44	5N	8E+05	2E+06	13.3	0.4	0.2	0.65	0.8	0.02	0.94	0.6	0.02	2.4	5.4	0.4	0.10	6.3	0.02	0.06	4.6	0.01	4.5	1.0	0.1	0.0		0.0	6.7	30
10	214	8.chn	6A6	6.5	44	6J	7E+05	2E+06	19.8	0.3	0.2	1.26	0.5	0.02	1.26	0.6	0.02	2.6	5.7	0.4	0.07	6.5	0.01	0.01	51.0	0.01	0.2	23.8	0.1	0.0		0.0	9.3	5
10	214	380.chn	4A6	6.5	44	5M	8E+05	2E+06	16.7	0.3	0.2	0.76	0.7	0.02	1.22	0.5	0.02	2.3	5.9	0.4	0.09	6.9	0.02	0.04	7.1	0.01	2.1	2.0	0.1	0.0		0.0	8.0	0
10	214	13.chn	6A6	6.5	44	6K	7E+05	2E+06	19.8	0.3	0.2	1.12	0.6	0.02	1.27	0.5	0.02	2.5	5.8	0.4	0.06	7.5	0.01	0.01	30.1	0.01	0.0		0.0	0.0		0.0	9.1	10
10	214	371.chn	4A6	6.5	44	5H	8E+05	2E+06	17.8	0.3	0.2	0.84	0.7	0.02	1.25	0.5	0.02	2.1	6.6	0.4	0.07	7.4	0.02	0.02	13.3	0.01	1.0	3.7	0.1	0.0		0.0	8.5	20
10	214	376.chn	4A6	6.5	44	5K	8E+05	2E+06	19.2	0.3	0.2	1.05	0.6	0.02	1.40	0.5	0.02	2.6	5.4	0.4	0.05	8.2	0.01	0.03	8.2	0.01	0.6	6.9	0.1	0.0		0.0	9.6	10
10	214	375.chn	4A6	6.5	44	5J	7E+05	2E+06	15.6	0.3	0.1	0.90	0.6	0.02	1.02	0.6	0.02	1.9	7.[illegible]	0.4	0.05	8.5	0.01	0.04	6.9	0.01	0.2	19.4	0.1	0.0		0.0	7.7	15
10	214	379.chn	4A6	6.5	44	5L	8E+05	2E+06	16.3	0.3	0.1	0.79	0.7	0.02	1.45	0.5	0.02	2.5	5.[illegible]	0.4	0.08	7.0	0.02	0.08	3.5	0.01	0.4	10.7	0.1	0.0		0.0	8.4	0
10	214	374.chn	4A6	6.5	44	5I	7E+05	2E+06	14.7	0.4	0.2	0.97	0.6	0.02	1.26	0.5	0.02	2.3	6.0	0.4	0.05	8.1	0.01	0.01	23.7	0.01	0.0		0.0	0.0		0.0	8.1	5
10	175	369.chn	4A6	6.5	44	5F	8E+05	2E+06	18.0	0.3	0.2	0.82	0.7	0.02	1.31	0.5	0.02	2.2	6.2	0.4	0.07	7.8	0.02	0.09	3.3	0.01	0.3	14.3	0.1	0.0		0.0	8.6	20
10	210	370.chn	4A6	6.5	44	5G	8E+05	2E+06	18.3	0.3	0.2	0.86	0.7	0.02	1.30	0.5	0.02	2.1	6.2	0.4	0.07	7.4	0.02	0.02	13.6	0.01	0.1	34.0	0.1	0.0		0.0	8.8	40
10	213	155.chn	4A6	6.5	44	4F	7E+05	2E+06	18.8	0.3	0.2	1.11	5.0	0.17	1.07	0.7	0.02	13.0	1.4	0.5	0.17	5.0	0.03	0.07	4.9	0.01	2.4	1.9	0.1	0.0		0.0	9.5	0
10	213	153.chn	4A6	6.5	44	4D	7E+05	2E+06	17.2	0.3	0.2	1.05	0.6	0.02	1.42	0.5	0.02	2.8	4.9	0.4	0.07	7.0	0.01	0.05	3.4	0.01	1.5	2.8	0.1	0.0		0.0	9.0	0
10	213	154.chn	4A6	6.5	44	4E	7E+05	2E+06	14.4	0.4	0.2	0.83	0.7	0.02	0.78	0.8	0.02	4.6	3.0	0.4	0.09	6.0	0.02	0.10	3.0	0.01	3.5	1.3	0.1	0.0		0.0	6.7	0
10	176	294.chn	4A6	6.5	44	A21	8E+05	2E+06	11.0	0.4	0.1	0.69	0.7	0.01	1.03	0.6	0.02	3.0	4.3	0.4	0.10	6.0	0.02	0.12	2.2	0.01	0.9	4.0	0.1	0.0		0.0	6.5	0
10	176	305.chn	4A6	6.5	44	A22	8E+05	2E+06	9.4	0.4	0.1	0.74	0.7	0.02	0.96	0.6	0.02	4.2	3.0	0.4	0.12	5.0	0.02	0.09	2.9	0.01	2.1	1.9	0.1	0.0		0.0	6.1	40
10	176	306.chn	4A6	6.5	44	A23	8E+05	2E+06	8.2	0.5	0.1	0.70	0.7	0.01	0.80	0.7	0.02	8.6	1.6	0.4	0.17	4.0	0.02	0.09	2.8	0.01	4.3	0.9	0.1	0.6	19.1	0.3	5.7	50
10	176	307.chn	4A6	6.5	44	A24	8E+05	2E+06	10.1	0.4	0.1	0.80	0.7	0.02	0.96	0.7	0.02	27.8	0.7	0.6	0.64	2.0	0.04	0.11	2.9	0.01	18.1	0.3	0.2	0.6	23.6	0.4	8.1	50
10	176	308.chn	4A6	6.5	44	A25	8E+05	2E+06	11.4	0.4	0.1	0.87	0.6	0.02	1.04	0.6	0.02	14.3	1.1	0.5	0.30	3.0	0.03	0.11	2.7	0.01	10.7	0.5	0.2	0.0		0.0	7.7	5
10	176	311.chn	4A6	6.5	44	A26	8E+05	2E+06	11.4	0.4	0.1	0.96	0.6	0.02	1.12	0.6	0.02	7.4	2.0	0.4	0.15	4.0	0.02	0.08	3.5	0.01	8.6	0.5	0.1	0.0		0.0	7.4	0
10	176	312.chn	4A6	6.5	44	A27	8E+05	2E+06	12.7	0.4	0.2	1.08	0.5	0.02	1.07	0.6	0.02	4.1	3.3	0.4	0.09	6.0	0.02	0.05	5.1	0.01	9.1	0.5	0.1	0.0		0.0	7.6	10
0	176	313.chn	4A6	6.5	44	A28	8E+05	2E+06	14.6	0.4	0.2	0.99	0.6	0.02	1.08	0.6	0.02	3.5	4.0	0.4	0.08	6.0	0.01	0.01	22.5	0.01	0.9	4.6	0.1	0.0		0.0	7.7	10
10	213	152.chn	4A6	6.5	44	4C	7E+05	2E+06	18.1	0.3	0.2	0.94	0.7	0.02	1.27	0.6	0.02	5.6	3.1	0.5	0.17	5.0	0.02	0.08	3.9	0.01	49.5	0.2	0.3	0.0		0.0	9.8	0
10	176	295.chn	4A6	6.5	44	B21	8E+05	2E+06	12.8	0.4	0.2	0.72	0.7	0.02	1.19	0.5	0.02	3.4	3.9	0.4	0.09	7.0	0.02	0.07	3.9	0.01	0.7	5.7	0.1	0.0		0.0	7.1	20

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
10	176	349.chn	4A6	6.5	44	B22	8E+05	2E+06	9.3	0.4	0.1	0.61	0.8	0.01	0.95	0.6	0.02	4.9	2.6	0.4	0.11	5.8	0.02	0.07	3.6	0.01	1.5	2.5	0.1	0.0		0.0	5.7	70
10	176	300.chn	4A6	6.5	44	B23	8E+05	2E+06	10.4	0.4	0.1	0.87	0.6	0.02	1.37	0.5	0.02	14.1	1.1	0.5	0.30	3.0	0.03	0.10	2.8	0.01	6.1	0.7	0.1	0.0		0.0	7.9	50
10	176	321.chn	4A6	6.5	44	B25	8E+05	2E+06	10.0	0.4	0.1	0.79	0.7	0.02	1.03	0.7	0.02	32.5	0.6	0.6	0.74	1.0	0.02	0.09	3.7	0.01	17.4	0.3	0.2	0.0		0.0	8.6	0
10	176	318.chn	4A6	6.5	44	B26	8E+05	2E+06	9.5	0.4	0.1	0.97	0.6	0.02	1.12	0.6	0.02	9.6	1.5	0.4	0.16	4.0	0.02	0.12	2.4	0.01	5.3	0.8	0.1	0.0		0.0	7.2	0
10	176	317.chn	4A6	6.5	44	B27	8E+05	2E+06	9.1	0.5	0.1	0.88	0.6	0.02	1.01	0.6	0.02	4.2	3.1	0.4	0.10	6.0	0.02	0.14	2.0	0.01	2.5	1.6	0.1	0.0		0.0	6.4	0
10	176	314.chn	4A6	6.5	44	B28	8E+05	2E+06	20.0	0.3	0.2	1.05	0.6	0.02	1.17	0.6	0.02	2.8	5.2	0.4	0.07	7.0	0.02	0.02	14.0	0.01	0.7	5.7	0.1	0.0		0.0	9.3	10
10	176	301.chn	4A6	6.5	44	B24	8E+05	2E+06	8.8	0.5	0.1	0.75	0.9	0.02	0.98	0.8	0.02	69.6	0.4	0.8	1.87	1.0	0.06	0.06	6.2	0.01	42.7	0.2	0.3	1.2	16.2	0.6	12.5	40
10	176	296.chn	4A6	6.5	44	C21	8E+05	2E+06	16.1	0.3	0.1	0.82	0.7	0.02	1.25	0.5	0.02	3.1	4.4	0.4	0.09	6.0	0.02	0.03	7.6	0.01	0.5	7.5	0.1	0.0		0.0	8.1	25
10	176	352.chn	4A6	6.5	44	C22	8E+05	2E+06	10.6	0.4	0.1	0.85	0.6	0.02	0.90	0.6	0.02	3.7	3.4	0.4	0.08	6.6	0.01	0.06	4.4	0.01	1.1	3.4	0.1	0.0		0.0	6.4	35
10	176	302.chn	4A6	6.5	44	C23	8E+05	2E+06	14.3	0.4	0.2	1.02	0.6	0.02	1.55	0.5	0.02	8.9	1.7	0.5	0.17	4.0	0.02	0.10	2.9	0.01	2.7	1.6	0.1	0.0		0.0	9.2	40
10	176	330.chn	4A6	6.5	44	C24	8E+05	2E+06	15.2	0.3	0.1	0.80	0.7	0.02	1.28	0.5	0.02	22.7	0.8	0.5	0.53	2.0	0.03	0.06	5.0	0.01	11.8	0.5	0.2	0.0		0.0	9.3	50
10	176	327.chn	4A6	6.5	44	C25	8E+05	2E+06	17.4	0.3	0.2	1.07	0.6	0.02	1.48	0.5	0.02	17.2	1.0	0.5	0.36	2.0	0.02	0.06	5.2	0.01	6.0	0.8	0.1	0.0		0.0	10.2	15
10	176	326.chn	4A6	6.5	44	C26	8E+05	2E+06	17.1	0.3	0.2	1.08	0.6	0.02	1.52	0.5	0.02	7.0	2.1	0.4	0.16	4.0	0.02	0.09	3.3	0.01	2.3	1.8	0.1	0.0		0.0	9.5	5
10	176	325.chn	4A6	6.5	44	C27	8E+05	2E+06	14.0	0.4	0.2	0.97	0.6	0.02	1.24	0.5	0.02	4.3	3.2	0.4	0.08	6.0	0.02	0.18	1.7	0.01	1.8	2.2	0.1	0.0		0.0	8.0	5
10	176	324.chn	4A6	6.5	44	C28	8E+05	2E+06	18.9	0.3	0.2	0.95	0.6	0.02	1.18	0.6	0.02	3.0	4.6	0.4	0.08	7.0	0.02	0.02	12.9	0.01	0.7	5.4	0.1	0.0		0.0	8.8	15
10	213	148.chn	4A6	6.5	44	4A	7E+05	2E+06	16.5	0.3	0.1	0.93	0.6	0.02	1.05	0.6	0.02	4.1	3.7	0.5	0.14	5.0	0.02	0.10	3.0	0.01	31.2	0.2	0.2	0.0		0.0	8.4	0
10	213	147.chn	4A6	6.5	44	3Z	7E+05	2E+06	17.6	0.3	0.2	1.03	0.6	0.02	1.13	0.6	0.02	2.3	6.0	0.4	0.07	7.0	0.01	0.10	2.9	0.01	6.7	0.7	0.1	0.0		0.0	8.5	0
10	213	149.chn	4A6	6.5	44	4B	7E+05	2E+06	17.6	0.3	0.2	1.05	0.6	0.02	1.23	0.6	0.02	7.7	2.1	0.5	0.11	6.0	0.02	0.13	2.6	0.01	8.9	0.6	0.2	0.0		0.0	9.2	0
10	176	297.chn	4A6	6.5	44	D21	8E+05	2E+06	19.5	0.3	0.2	0.85	0.7	0.02	1.24	0.5	0.02	2.7	5.0	0.4	0.08	7.0	0.02	0.02	17.2	0.01	0.3	14.6	0.1	0.0		0.0	8.8	10
10	176	353.chn	4A6	6.5	44	D22	8E+05	2E+06	14.1	0.4	0.2	0.92	0.6	0.02	1.03	0.6	0.02	2.9	4.6	0.4	0.06	7.3	0.01	0.02	12.2	0.01	0.4	10.5	0.1	0.0		0.0	7.4	10
10	176	338.chn	4A6	6.5	44	D23	8E+05	2E+06	16.0	0.3	0.1	0.80	0.7	0.02	1.12	0.6	0.02	3.7	3.7	0.4	0.09	6.0	0.02	0.02	15.0	0.01	0.5	7.5	0.1	0.0		0.0	7.8	50
10	176	337.chn	4A6	6.5	44	D24	8E+05	2E+06	16.1	0.3	0.1	0.87	0.6	0.02	1.29	0.5	0.02	4.0	3.4	0.4	0.10	6.0	0.02	0.04	6.0	0.01	0.9	4.1	0.1	0.0		0.0	8.4	30
10	176	336.chn	4A6	6.5	44	D25	8E+05	2E+06	17.2	0.3	0.2	0.83	0.7	0.02	1.33	0.5	0.02	5.6	2.5	0.4	0.12	5.0	0.02	0.02	13.0	0.01	1.2	3.1	0.1	0.0		0.0	8.5	40
10	176	333.chn	4A6	6.5	44	D26	8E+05	2E+06	18.8	0.3	0.2	0.97	0.6	0.02	1.40	0.5	0.02	4.3	3.3	0.4	0.09	6.0	0.02	0.03	9.8	0.01	0.9	4.6	0.1	0.0		0.0	9.4	50
10	176	332.chn	4A6	6.5	44	D27	8E+05	2E+06	19.7	0.3	0.2	1.02	0.6	0.02	1.45	0.5	0.02	3.5	4.0	0.4	0.08	7.0	0.02	0.06	4.5	0.01	0.7	5.5	0.1	0.0		0.0	9.8	40
10	176	331.chn	4A6	6.5	44	D28	8E+05	2E+06	18.8	0.3	0.2	0.98	0.6	0.02	1.26	0.5	0.02	3.0	4.6	0.4	0.07	7.0	0.01	0.02	14.4	0.01	0.7	5.4	0.1	0.0		0.0	9.0	15
10	176	354.chn	4A6	6.5	44	E22	8E+05	2E+06	18.1	0.3	0.2	0.96	0.6	0.02	1.18	0.6	0.02	2.5	5.5	0.4	0.06	8.0	0.01	0.02	11.7	0.01	0.2	17.7	0.1	0.0		0.0	8.5	5
10	176	348.chn	4A6	6.5	44	E23	8E+05	2E+06	12.2	0.4	0.1	0.70	0.7	0.01	0.93	0.6	0.02	2.3	5.4	0.4	0.07	7.6	0.02	0.07	3.6	0.01	0.5	7.9	0.1	0.0		0.0	6.3	25
10	176	347.chn	4A6	6.5	44	E24	8E+05	2E+06	11.4	0.4	0.1	0.67	0.7	0.01	0.94	0.6	0.02	2.4	5.0	0.4	0.08	7.0	0.02	0.07	3.7	0.01	0.6	5.9	0.1	0.0		0.0	6.2	35
10	176	344.chn	4A6	6.5	44	E25	8E+05	2E+06	11.1	0.4	0.1	0.71	0.7	0.01	0.96	0.6	0.02	2.6	4.7	0.4	0.06	7.5	0.01	0.08	3.1	0.01	0.5	7.4	0.1	0.0		0.0	6.2	30
10	176	343.chn	4A6	6.5	44	E26	8E+05	2E+06	12.5	0.4	0.2	0.78	0.7	0.02	1.03	0.6	0.02	2.5	5.1	0.4	0.05	8.5	0.01	0.06	4.4	0.01	0.4	8.4	0.1	0.0		0.0	6.8	40
10	176	342.chn	4A6	6.5	44	E27	8E+05	2E+06	13.9	0.4	0.2	0.76	0.7	0.02	1.22	0.5	0.02	2.7	4.6	0.4	0.07	7.6	0.01	0.06	4.1	0.01	0.5	7.3	0.1	0.0		0.0	7.3	40
10	176	341.chn	4A6	6.5	44	E28	8E+05	2E+06	18.6	0.3	0.2	0.84	0.7	0.02	1.21	0.5	0.02	2.5	5.2	0.4	0.08	6.7	0.02	0.02	15.2	0.01	0.4	9.4	0.1	0.0		0.0	8.4	15
11	168	258.chn	4A6	6.5	44	I8	7E+05	2E+06	7.5	0.5	0.1	0.83	0.6	0.01	1.09	0.5	0.02	1.7	6.7	0.3	0.07	7.0	0.01	0.47	0.8	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	257.chn	4A6	6.5	44	K8	7E+05	2E+06	7.7	0.5	0.1	0.83	0.6	0.01	1.15	0.5	0.02	1.8	6.2	0.3	0.07	6.0	0.01	0.53	0.7	0.01	0.0		0.0	0.0		0.0	6.3	0
11	168	256.chn	4A6	6.5	44	M8	7E+05	2E+06	8.3	0.5	0.1	0.86	0.6	0.02	1.28	0.5	0.02	2.0	5.5	0.3	0.08	6.0	0.01	0.56	0.7	0.01	0.0		0.0	0.0		0.0	6.7	0
11	168	255.chn	4A6	6.5	44	O8	7E+05	2E+06	8.4	0.5	0.1	0.85	0.6	0.02	1.31	0.5	0.02	2.0	5.8	0.3	0.10	5.0	0.01	0.57	0.7	0.01	0.0		0.0	0.0		0.0	6.9	0
11	168	252.chn	4A6	6.5	44	Q8	7E+05	2E+06	7.3	0.5	0.1	0.95	0.6	0.02	1.18	0.5	0.02	2.0	5.6	0.3	0.08	6.0	0.01	0.60	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
11	168	251.chn	4A6	6.5	44	S8	7E+05	2E+06	7.2	0.5	0.1	1.04	0.5	0.02	1.17	0.5	0.02	1.9	6.1	0.3	0.06	6.0	0.01	0.65	0.6	0.01	0.0		0.0	0.0		0.0	6.7	0
11	168	249.chn	4A6	6.5	44	U8	7E+05	2E+06	7.3	0.5	0.1	1.03	0.5	0.02	1.21	0.5	0.02	2.0	5.7	0.3	0.08	6.0	0.01	0.61	0.7	0.01	0.0		0.0	0.0		0.0	6.9	0
11	168	250.chn	4A6	6.5	44	U8	7E+05	2E+06	7.4	0.5	0.1	1.12	0.5	0.02	1.23	0.5	0.02	2.0	5.7	0.3	0.07	6.0	0.01	0.61	0.7	0.01	0.0		0.0	0.0		0.0	6.9	0
11	168	246.chn	4A6	6.5	44	W8	7E+05	2E+06	6.1	0.6	0.1	0.64	0.7	0.01	0.95	0.6	0.02	1.6	6.6	0.3	0.07	7.0	0.01	0.52	0.7	0.01	0.0		0.0	0.0		0.0	5.3	0
11	168	189.chn	4A6	6.5	44	I10	7E+05	2E+06	7.8	0.5	0.1	0.77	0.6	0.01	1.14	0.5	0.02	1.7	6.5	0.3	0.08	6.0	0.01	0.50	0.7	0.01	0.0		0.0	0.0		0.0	6.2	0
11	168	190.chn	4A6	6.5	44	K10	7E+05	2E+06	7.6	0.5	0.1	0.81	0.6	0.01	1.15	0.5	0.02	2.1	5.5	0.3	0.07	6.0	0.01	0.52	0.7	0.01	0.0		0.0	0.0		0.0	6.3	0
11	168	193.chn	4A6	6.5	44	M10	7E+05	2E+06	7.9	0.5	0.1	0.94	0.6	0.02	1.14	0.5	0.02	1.7	6.8	0.3	0.05	7.0	0.01	0.50	0.8	0.01	0.0		0.0	0.0		0.0	6.5	0
11	168	194.chn	4A6	6.5	44	O10	7E+05	2E+06	7.8	0.5	0.1	1.00	0.5	0.02	1.22	0.5	0.02	2.0	5.9	0.4	0.06	7.0	0.01	0.57	0.7	0.01	0.0		0.0	0.0		0.0	6.8	0
11	168	207.chn	4A6	6.5	44	Q10	7E+05	2E+06	6.0	0.6	0.1	0.66	0.7	0.01	0.91	0.6	0.02	1.5	7.5	0.3	0.06	8.0	0.01	0.49	0.8	0.01	0.0		0.0	0.0		0.0	5.4	0
11	168	206.chn	4A6	6.5	44	S10	7E+05	2E+06	7.9	0.5	0.1	0.96	0.6	0.02	1.14	0.6	0.02	1.8	6.6	0.4	0.05	8.0	0.01	0.63	0.7	0.01	0.0		0.0	0.0		0.0	7.4	0
11	168	196.chn	4A6	6.5	44	U10	7E+05	2E+06	7.0	0.5	0.1	0.96	0.6	0.02	1.14	0.5	0.02	1.9	5.9	0.3	0.07	6.0	0.01	0.67	0.6	0.01	0.0		0.0	0.0		0.0	6.4	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
8	172	173.chn	4A6	6.5	44	4Q	7E+05	2E+06	20.9	0.3	0.2	0.95	0.6	0.02	1.35	0.5	0.02	2.0	7.0	0.4	0.05	8.0	0.01	0.04	7.6	0.01	5.1	0.9	0.1	0.0		0.0	9.7	0
8	172	38.chn	6A6	6.5	44	6Z	8E+05	2E+06	18.7	0.3	0.2	0.96	0.6	0.02	1.46	0.5	0.02	2.3	6.0	0.4	0.09	6.7	0.02	0.04	7.5	0.01	0.0		0.0	0.0		0.0	9.3	0
8	172	39.chn	6A6	6.5	44	7A	8E+05	2E+06	16.0	0.3	0.1	0.89	0.7	0.02	1.24	0.5	0.02	2.4	5.7	0.4	0.09	6.6	0.02	0.10	3.0	0.01	0.0		0.0	0.0		0.0	8.1	0
8	172	171.chn	4A6	6.5	44	4P	7E+05	2E+06	22.7	0.3	0.2	1.16	0.6	0.02	2.15	0.4	0.03	2.7	5.7	0.5	0.08	7.0	0.02	0.01	25.5	0.01	10.6	0.5	0.2	0.0		0.0	12.5	0
8	172	42.chn	6A6	6.5	44	7B	8E+05	2E+06	17.4	0.3	0.2	0.95	0.6	0.02	1.35	0.5	0.02	1.9	7.3	0.4	0.08	7.1	0.02	0.04	7.3	0.01	0.0		0.0	0.0		0.0	8.7	0
8	172	172.chn	4A6	6.5	44	4O	7E+05	2E+06	19.7	0.3	0.2	1.02	0.6	0.02	1.54	0.5	0.02	3.3	4.6	0.5	0.08	7.0	0.02	0.01	26.1	0.01	19.1	0.3	0.2	0.5	26.9	0.4	10.3	0
8	172	45.chn	6A6	6.5	44	7C	8E+05	2E+06	19.7	0.3	0.2	1.10	0.6	0.02	1.44	0.5	0.02	2.6	5.7	0.4	0.10	5.9	0.02	0.04	7.4	0.01	0.0		0.0	0.0		0.0	9.6	0
8	172	46.chn	6A6	6.5	44	7D	8E+05	2E+06	20.1	0.3	0.2	0.96	0.6	0.02	1.35	0.5	0.02	2.2	6.6	0.4	0.08	7.3	0.02	0.01	25.7	0.01	0.0		0.0	0.0		0.0	9.3	10
8		183.chn	4A6	6.5	44	4W	7E+05	2E+06	18.4	0.3	0.2	1.03	0.6	0.02	1.15	0.6	0.02	5.8	2.6	0.5	0.07	8.0	0.02	0.00		0.00	0.0		0.0	0.0		0.0	8.9	50
8		186.chn	4A6	6.5	44	4Z	7E+05	2E+06	21.4	0.3	0.2	1.25	0.5	0.02	1.91	0.4	0.02	3.3	4.7	0.5	0.07	7.0	0.01	0.01	45.0	0.01	0.0		0.0	0.0		0.0	11.6	10
8		185.chn	4A6	6.5	44	4Y	7E+05	2E+06	19.9	0.3	0.2	1.22	0.5	0.02	1.84	0.4	0.02	3.2	4.7	0.5	0.06	8.0	0.02	0.01	35.0	0.01	0.0		0.0	0.0		0.0	11.2	40
8		184.chn	4A6	6.5	44	4X	7E+05	2E+06	19.4	0.3	0.2	1.16	0.6	0.02	1.81	0.4	0.02	2.6	5.6	0.4	0.06	8.0	0.01	0.01	29.7	0.01	0.0		0.0	0.0		0.0	10.8	40
8	172	169.chn	4A6	6.5	44	4N	7E+05	2E+06	19.7	0.3	0.2	1.00	0.6	0.02	1.51	0.5	0.02	2.4	6.2	0.4	0.05	9.0	0.01	0.01	39.0	0.01	0.0		0.0	0.0		0.0	10.1	50
8	172	166.chn	4A6	6.5	44	4M	7E+05	2E+06	16.3	0.3	0.1	1.14	0.5	0.02	0.97	0.7	0.02	3.0	4.7	0.4	0.06	7.0	0.01	0.01	18.8	0.01	0.0		0.0	0.0		0.0	8.2	10
8	172	130.chn	4A6	6.5	44	3O	7E+05	2E+06	15.7	0.3	0.1	1.00	0.6	0.02	0.86	0.8	0.02	7.1	2.1	0.4	0.07	7.0	0.02	0.00		0.00	0.1	29.4	0.1	0.0		0.0	7.9	0
8	172	129.chn	4A6	6.5	44	3N	7E+05	2E+06	16.1	0.3	0.1	0.82	0.7	0.02	0.99	0.7	0.02	9.5	1.7	0.5	0.09	8.0	0.02	0.04	7.6	0.01	0.2	17.7	0.1	0.0		0.0	8.2	0
8	172	128.chn	4A6	6.5	44	3M	7E+05	2E+06	16.1	0.3	0.1	0.80	0.7	0.02	0.99	0.6	0.02	4.7	3.1	0.4	0.07	8.0	0.02	0.06	4.5	0.01	0.3	14.6	0.1	0.0		0.0	7.5	0
8	172	118.chn	4A6	6.5	44	3K	7E+05	2E+06	20.3	0.3	0.2	0.92	0.6	0.02	1.20	0.6	0.02	2.4	6.1	0.4	0.05	9.0	0.01	0.03	9.5	0.01	0.3	15.5	0.1	0.0		0.0	9.2	0
8	172	117.chn	4A6	6.5	44	3J	7E+05	2E+06	12.2	0.4	0.1	0.83	0.7	0.02	0.86	0.7	0.02	1.5	8.6	0.4	0.05	8.0	0.01	0.10	2.9	0.01	1.4	2.9	0.1	0.0		0.0	6.5	0
8	172	116.chn	4A6	6.5	44	3I	7E+05	2E+06	12.1	0.4	0.1	0.89	0.6	0.02	0.91	0.7	0.02	1.6	8.1	0.4	0.05	9.0	0.01	0.11	2.5	0.01	3.4	1.2	0.1	0.0		0.0	6.7	0
8	150.1	49.chn	6A6	6.5	44	7E	8E+05	2E+06	21.9	0.3	0.2	0.91	0.7	0.02	1.52	0.5	0.02	2.4	6.1	0.4	0.07	7.8	0.02	0.01	27.6	0.01	0.0		0.0	0.0		0.0	9.8	20
8	150.1	50.chn	6A6	6.5	44	7F	8E+05	2E+06	23.7	0.3	0.2	0.95	0.7	0.02	1.66	0.5	0.02	2.4	6.2	0.5	0.10	6.7	0.02	0.01	43.0	0.01	0.0		0.0	0.0		0.0	10.7	15
8	150.1	51.chn	6A6	6.5	44	7G	8E+05	2E+06	20.9	0.3	0.2	0.85	0.7	0.02	1.65	0.4	0.02	2.3	6.3	0.4	0.06	8.4	0.02	0.01	32.1	0.01	0.0		0.0	0.0		0.0	9.7	25
8	150.1	54.chn	6A6	6.5	44	7FB	8E+05	2E+06	21.8	0.3	0.2	1.02	0.6	0.02	1.55	0.5	0.02	1.7	12.6	0.6	0.07	7.3	0.02	0.00		0.00	0.0		0.0	0.0		0.0	10.2	20
8	150.1	55.chn	6A6	6.5	44	7H	8E+05	2E+06	19.9	0.3	0.2	0.92	0.7	0.02	1.50	0.5	0.02	1.5	13.6	0.6	0.06	8.7	0.02	0.02	12.5	0.01	0.5	8.5	0.1	2.7	5.5	0.5	9.6	50
8	172	56.chn	6A6	6.5	44	7I	8E+05	2E+06	20.5	0.3	0.2	0.96	0.7	0.02	1.64	0.5	0.02	1.8	12.2	0.7	0.06	9.5	0.02	0.08	4.1	0.01	1.2	3.7	0.1	8.8	1.9	0.5	10.3	20
8	139.1N	65.chn	6A6	6.5	44	7M	8E+05	2E+06	19.0	0.3	0.2	0.96	0.6	0.02	1.42	0.5	0.02	1.4	14.5	0.6	0.08	7.1	0.02	0.01	20.3	0.01	0.2	23.3	0.1	0.0		0.0	9.0	40
8	139.1N	66.chn	6A6	6.5	44	7N	8E+05	2E+06	20.5	0.3	0.2	0.98	0.6	0.02	1.47	0.5	0.02	1.7	12.3	0.6	0.06	8.2	0.01	0.01	20.9	0.01	0.3	15.4	0.1	0.0		0.0	9.6	30
8	118.1	67.chn	6A6	6.5	44	7O	8E+05	2E+06	15.3	0.3	0.1	0.88	0.7	0.02	1.23	0.5	0.02	2.0	6.7	0.4	0.08	7.3	0.02	0.03	8.2	0.01	0.2	15.3	0.1	1.3	10.2	0.4	7.9	60
8	150.2	68.chn	6A6	6.5	44	7P	8E+05	2E+06	15.2	0.3	0.1	0.81	0.7	0.02	1.09	0.6	0.02	2.0	6.6	0.4	0.06	8.5	0.01	0.02	14.6	0.01	0.0		0.0	0.0		0.0	7.3	20
8	150.2	71.chn	6A6	6.5	44	7Q	8E+05	2E+06	17.4	0.3	0.2	0.82	0.7	0.02	1.25	0.5	0.02	2.2	6.1	0.4	0.08	7.2	0.02	0.02	11.4	0.01	0.0		0.0	0.0		0.0	8.1	15
8	150.3	74.chn	6A6	6.5	44	7R	8E+05	2E+06	15.7	0.3	0.1	0.83	0.7	0.02	1.14	0.6	0.02	2.0	9.8	0.6	0.10	6.9	0.02	0.24	1.5	0.01	0.8	5.1	0.1	11.4	1.4	0.5	7.9	35
8	150.3	72.chn	6A6	6.5	44	7S	8E+05	2E+06	14.8	0.3	0.1	0.82	0.7	0.02	1.22	0.6	0.02	1.8	10.9	0.6	0.09	7.7	0.02	0.44	0.9	0.01	1.5	3.0	0.1	13.7	1.2	0.5	8.2	10
8	138	73.chn	6A6	6.5	44	7T	8E+05	2E+06	16.8	0.3	0.2	0.86	0.7	0.02	1.36	0.5	0.02	1.8	11.1	0.6	0.09	6.5	0.02	0.02	13.5	0.01	3.0	1.4	0.1	0.0		0.0	8.2	30
8	138	74.chn	6A6	6.5	44	7U	8E+05	2E+06	16.7	0.3	0.2	0.90	0.7	0.02	1.39	0.5	0.02	1.8	10.8	0.6	0.08	7.0	0.02	0.02	16.4	0.01	2.8	1.5	0.1	0.0		0.0	8.5	60
8	123.1	80.chn	6A6	6.5	44	7V	7E+05	2E+06	21.4	0.3	0.2	1.03	0.6	0.02	1.44	0.5	0.02	5.2	4.3	0.7	0.09	6.8	0.02	0.00		0.00	0.1	47.0	0.1	0.0		0.0	9.8	20
8	123.1	81.chn	6A6	6.5	44	7W	7E+05	2E+06	22.1	0.3	0.2	1.05	0.6	0.02	1.56	0.5	0.02	4.2	5.3	0.7	0.08	7.1	0.02	0.01	44.0	0.01	0.0		0.0	0.0		0.0	10.1	0
8	123.1	82.chn	6A6	6.5	44	7X	7E+05	2E+06	22.7	0.3	0.2	1.00	0.6	0.02	1.62	0.5	0.02	5.6	4.1	0.7	0.07	7.6	0.02	0.01	43.0	0.01	0.0		0.0	0.0		0.0	10.4	0
8	123.1	83.chn	6A6	6.5	44	7Y	7E+05	2E+06	22.2	0.3	0.2	0.97	0.7	0.02	1.55	0.5	0.02	4.4	5.1	0.7	0.10	6.3	0.02	0.01	49.0	0.01	0.0		0.0	0.0		0.0	10.1	0
8	150.6	86.chn	6A6	6.5	44	7Z	8E+05	2E+06	18.1	0.3	0.2	0.88	0.7	0.02	1.61	0.5	0.02	2.3	6.4	0.4	0.08	7.5	0.02	0.02	17.1	0.01	0.8	5.1	0.1	0.0		0.0	9.3	30
8	150.6	87.chn	6A6	6.5	44	8A	8E+05	2E+06	21.4	0.3	0.2	1.03	0.6	0.02	1.48	0.5	0.02	2.0	10.5	0.6	0.10	6.3	0.02	0.01	27.6	0.01	2.0	2.1	0.1	0.0		0.0	9.8	35
8	150.6	88.chn	6A6	6.5	44	8B	8E+05	2E+06	22.5	0.3	0.2	1.07	0.6	0.02	1.55	0.5	0.02	2.1	10.2	0.6	0.09	6.8	0.02	0.00		0.00	0.0		0.0	0.0		0.0	10.4	65
8	184	89.chn	6A6	6.5	44	8C	7E+05	2E+06	19.4	0.3	0.2	1.03	0.6	0.02	1.53	0.5	0.02	1.7	11.6	0.6	0.09	6.7	0.02	0.01	44.0	0.01	0.0		0.0	0.0		0.0	9.5	40
8	150.8	86.chn	6A6	6.5	44	7Z	8E+05	2E+06	18.1	0.3	0.2	0.88	0.7	0.02	1.61	0.5	0.02	2.3	6.4	0.4	0.08	7.5	0.02	0.02	17.1	0.01	0.8	5.1	0.1	0.0		0.0	9.3	30
8	150.8	87.chn	6A6	6.5	44	8A	8E+05	2E+06	21.4	0.3	0.2	1.03	0.6	0.02	1.48	0.5	0.02	2.0	10.5	0.6	0.10	6.3	0.02	0.01	27.6	0.01	2.0	2.1	0.1	0.0		0.0	9.8	35
8	150.8	88.chn	6A6	6.5	44	8B	8E+05	2E+06	22.5	0.3	0.2	1.07	0.6	0.02	1.55	0.5	0.02	2.1	10.2	0.6	0.09	6.8	0.02	0.00		0.00	0.0		0.0	0.0		0.0	10.4	65
8	150.4	105.chn	6A6	6.5	44	8E	8E+05	2E+06	14.6	0.3	0.1	0.85	0.7	0.02	0.79	0.8	0.02	1.6	8.3	0.4	0.05	8.7	0.01	0.01	48.0	0.01	0.2	20.8	0.1	0.5	40.0	0.5	6.8	30
8	150.7	106.chn	6A6	6.5	44	8F	8E+05	2E+06	19.5	0.3	0.2	1.02	0.6	0.02	1.70	0.5	0.03	1.9	10.8	0.6	0.07	8.1	0.02	0.01	24.5	0.01	1.1	3.4	0.1	6.4	2.5	0.5	10.5	60
8	118.2	106.chn	6A6	6.5	44	8F	8E+05	2E+06	19.5	0.3	0.2	1.02	0.6	0.02	1.70	0.5	0.03	1.9	10.8	0.6	0.07	8.1	0.02	0.01	24.5	0.01	1.1	3.4	0.1	6.4	2.5	0.5	10.5	60

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
8	150.7	107.chn	6A6	6.5	44	8G	8E+05	2E+06	18.2	0.3	0.2	0.95	0.7	0.02	1.59	0.5	0.02	2.0	10.0	0.6	0.08	7.6	0.02	0.01	21.0	0.01	0.4	8.3	0.1	0.8	19.0	0.4	9.5	60
8	172	161.chn	6A6	6.5	44	9L	8E+05	2E+06	16.0	0.3	0.1	0.89	0.7	0.02	1.45	0.5	0.02	1.8	11.0	0.6	0.08	6.9	0.02	0.07	4.3	0.01	0.0		0.0	0.0		0.0	8.5	0
9		113.chn	6A6	6.5	44	8I	7E+05	2E+06	17.2	0.3	0.2	0.81	0.7	0.02	1.31	0.5	0.02	1.8	10.3	0.6	0.08	7.4	0.02	0.02	17.9	0.01	0.0		0.0	0.0		0.0	8.1	40
9	122	114.chn	6A6	6.5	44	8J	7E+05	2E+06	17.8	0.3	0.2	0.89	0.7	0.02	1.38	0.5	0.02	1.7	11.6	0.6	0.06	8.0	0.02	0.03	10.9	0.01	0.0		0.0	0.0		0.0	8.5	60
9	159	147.chn	6A6	6.5	44	9D	8E+05	2E+06	16.8	0.3	0.2	0.87	0.7	0.02	1.35	0.5	0.02	1.8	11.1	0.6	0.06	8.8	0.02	0.01	19.4	0.01	11.5	0.5	0.2	4.3	3.3	0.4	8.7	70
9	159	150.chn	6A6	6.5	44	9E	8E+05	2E+06	17.3	0.3	0.2	0.87	0.7	0.02	1.45	0.5	0.02	1.6	12.5	0.6	0.08	7.4	0.02	0.01	20.4	0.01	31.1	0.2	0.2	4.2	3.4	0.4	9.0	70
9	132	151.chn	6A6	6.5	44	9F	8E+05	2E+06	14.6	0.3	0.1	0.84	0.7	0.02	1.28	0.5	0.02	1.5	12.5	0.6	0.07	7.6	0.02	0.07	4.2	0.01	1.2	3.5	0.1	1.1	11.5	0.4	7.7	15
9	137	152.chn	6A6	6.5	44	9G	8E+05	2E+06	18.8	0.3	0.2	0.92	0.7	0.02	1.57	0.5	0.02	9.4	2.6	0.7	0.66	1.7	0.03	0.05	6.4	0.01	9.7	0.6	0.2	7.8	2.1	0.5	9.9	20
9	137	155.chn	6A6	6.5	44	9H	8E+05	2E+06	14.1	0.3	0.1	0.71	0.8	0.02	1.23	0.5	0.02	17.3	1.4	0.7	1.78	0.7	0.04	0.10	3.0	0.01	13.5	0.4	0.2	5.8	2.5	0.4	8.6	75
9	137	156.chn	6A6	6.5	44	9I	8E+05	2E+06	14.9	0.3	0.1	0.70	0.8	0.02	1.08	0.6	0.02	9.2	2.5	0.7	1.35	0.9	0.04	0.05	5.8	0.01	9.8	0.6	0.2	3.4	4.2	0.4	8.0	60
9	124	157.chn	6A6	6.5	44	9J	8E+05	2E+06	21.6	0.3	0.2	1.04	0.6	0.02	1.64	0.5	0.02	2.1	10.2	0.6	0.08	7.3	0.02	0.01	20.4	0.01	1.6	2.6	0.1	0.0		0.0	10.4	50
9	124	160.chn	6A6	6.5	44	9K	8E+05	2E+06	20.1	0.3	0.2	0.83	0.7	0.02	1.38	0.5	0.02	2.6	8.0	0.6	0.08	7.6	0.02	0.01	20.7	0.01	3.8	1.1	0.1	0.0		0.0	9.0	20
10	170	56.chn	3A6	6.5	44	G02	8E+05	2E+06	8.2	0.5	0.1	0.78	0.6	0.01	0.95	0.6	0.02	1.7	6.6	0.3	0.06	7.0	0.01	0.33	1.0	0.01	0.0		0.0	0.0		0.0	5.8	0
10	170	55.chn	3A6	6.5	44	G03	8E+05	2E+06	10.3	0.4	0.1	0.58	0.8	0.01	0.77	0.7	0.02	1.4	[illegible]	0.3	0.05	9.0	0.01	0.11	2.3	0.01	0.0		0.0	0.0		0.0	5.4	25
10	170	64.chn	3A6	6.5	44	H03	8E+05	2E+06	14.7	0.4	0.2	0.65	0.8	0.02	1.07	0.6	0.02	1.7	[illegible]	0.4	0.07	8.0	0.02	0.11	2.4	0.01	0.0		0.0	0.0		0.0	7.0	40
10	170	52.chn	3A6	6.5	44	I03	8E+05	2E+06	15.8	0.3	0.1	0.79	0.7	0.02	1.31	0.5	0.02	2.0	6.3	0.4	0.08	7.0	0.02	0.15	1.9	0.01	0.0		0.0	0.0		0.0	8.0	0
10	170	63.chn	3A6	6.5	44	F04	8E+05	2E+06	10.7	0.4	0.1	0.74	0.7	0.02	0.99	0.6	0.02	1.7	6.6	0.3	0.07	7.0	0.01	0.32	1.0	0.01	0.1	31.7	0.1	0.0		0.0	6.3	0
10	170	67.chn	3A6	6.5	44	F04	8E+05	2E+06	10.9	0.4	0.1	0.77	0.7	0.02	0.99	0.6	0.02	1.8	6.4	0.3	0.07	7.0	0.02	0.31	1.0	0.01	0.0		0.0	0.0		0.0	6.3	0
10	170	62.chn	3A6	6.5	44	G04	8E+05	2E+06	12.4	0.4	0.1	0.86	0.6	0.02	0.93	0.6	0.02	1.4	12.6	0.5	0.04	9.0	0.01	0.11	2.5	0.01	0.0		0.0	0.0		0.0	6.7	30
10	170	61.chn	3A6	6.5	44	H04	8E+05	2E+06	13.4	0.4	0.2	0.78	0.7	0.02	0.90	0.7	0.02	1.7	7.2	0.4	0.04	10.0	0.01	0.03	8.1	0.01	0.0		0.0	0.0		0.0	6.9	50
10	170	51.chn	3A6	6.5	44	I04	8E+05	2E+06	16.9	0.3	0.2	0.81	0.7	0.02	1.22	0.5	0.02	1.9	6.9	0.4	0.08	7.0	0.02	0.04	6.9	0.01	0.0		0.0	0.0		0.0	8.2	0
10	170	15.chn	3A6	6.5	44	F05	8E+05	2E+06	16.9	0.3	0.2	1.05	0.6	0.02	1.16	0.6	0.02	1.7	7.5	0.4	0.05	8.0	0.01	0.10	2.7	0.01	0.0		0.0	0.0		0.0	8.4	0
10	170	48.chn	3A6	6.5	44	G05	8E+05	2E+06	12.1	0.4	0.1	0.68	0.7	0.01	0.92	0.6	0.02	1.8	6.6	0.4	0.07	7.0	0.01	0.09	2.8	0.01	0.0		0.0	0.0		0.0	6.4	10
10	170	49.chn	3A6	6.5	44	H05	8E+05	2E+06	14.6	0.4	0.2	0.80	0.7	0.02	1.04	0.6	0.02	1.9	6.3	0.4	0.08	7.0	0.02	0.05	4.9	0.01	0.0		0.0	0.0		0.0	7.3	0
10	170	50.chn	3A6	6.5	44	I05	8E+05	2E+06	12.8	0.4	0.2	0.75	0.7	0.02	0.99	0.6	0.02	1.6	7.7	0.4	0.06	8.0	0.02	0.07	3.6	0.01	0.0		0.0	0.0		0.0	6.7	30
10	170	57.chn	3A6	6.5	44	E06	8E+05	2E+06	12.0	0.4	0.1	0.80	0.6	0.01	1.00	0.6	0.02	1.8	6.5	0.4	0.06	7.0	0.01	0.28	1.1	0.01	0.0		0.0	0.0		0.0	6.7	0
10	213	16.chn	3A6	6.5	44	F06	8E+05	2E+06	18.0	0.3	0.2	1.09	0.5	0.02	1.14	0.6	0.02	1.6	11.6	0.6	0.06	7.0	0.01	0.11	2.5	0.01	0.0		0.0	0.0		0.0	8.6	0
10	170	2.chn	3A6	6.5	44	G06	8E+05	2E+06	17.4	0.3	0.2	0.98	0.6	0.02	1.12	0.6	0.02	2.0	6.5	0.4	0.06	7.0	0.01	0.08	3.6	0.01	0.0		0.0	0.0		0.0	8.3	0
10	170	38.chn	3A6	6.5	44	H06	8E+05	2E+06	15.0	0.3	0.1	0.69	0.7	0.01	1.14	0.5	0.02	1.8	6.9	0.4	0.07	8.0	0.02	0.09	2.9	0.01	0.0		0.0	0.0		0.0	7.4	0
10	170	8.chn	3A6	6.5	44	E07	8E+05	2E+06	17.7	0.3	0.2	0.96	0.6	0.02	1.08	0.6	0.02	1.9	6.7	0.4	0.05	8.0	0.01	0.09	3.2	0.01	0.0		0.0	0.0		0.0	8.3	0
10	170	17.chn	3A6	6.5	44	F07	8E+05	2E+06	19.1	0.3	0.2	1.04	0.6	0.02	1.21	0.5	0.02	1.9	6.9	0.4	0.07	7.0	0.01	0.12	2.4	0.01	0.0		0.0	0.0		0.0	8.9	0
10	170	3.chn	3A6	6.5	44	G07	8E+05	2E+06	15.3	0.4	0.2	0.93	0.6	0.02	1.14	0.6	0.02	1.9	6.9	0.4	0.08	7.0	0.02	0.12	2.4	0.01	0.0		0.0	0.0		0.0	7.8	0
10	170	37.chn	3A6	6.5	44	H07	8E+05	2E+06	15.5	0.3	0.1	0.79	0.7	0.02	1.40	0.5	0.02	1.7	10.5	0.5	0.07	7.0	0.02	0.20	1.5	0.01	0.0		0.0	0.0		0.0	8.2	0
10	170	58.chn	3A6	6.5	44	D08	8E+05	2E+06	12.4	0.4	0.1	0.78	0.7	0.02	1.08	0.6	0.02	1.6	7.3	0.4	0.06	8.0	0.01	0.20	1.5	0.01	0.0		0.0	0.0		0.0	7.0	0
10	170	9.chn	3A6	6.5	44	E08	8E+05	2E+06	16.9	0.3	0.2	0.97	0.6	0.02	1.16	0.6	0.02	1.7	7.8	0.4	0.06	7.0	0.01	0.09	3.1	0.01	0.0		0.0	0.0		0.0	8.3	0
10	170	19.chn	3A6	6.5	44	F08	8E+05	2E+06	18.4	0.3	0.2	0.83	0.7	0.02	1.15	0.5	0.02	1.9	6.6	0.4	0.07	7.0	0.01	0.11	2.6	0.01	0.0		0.0	0.0		0.0	8.3	0
10	170	4.chn	3A6	6.5	44	G08	8E+05	2E+06	14.1	0.4	0.2	0.91	0.6	0.02	1.32	0.5	0.02	2.2	5.9	0.4	0.08	7.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	8.1	0
10	170	21.chn	3A6	6.5	44	D09	8E+05	2E+06	16.1	0.3	0.1	0.92	0.6	0.02	1.86	0.4	0.02	2.4	5.7	0.4	0.10	6.0	0.02	0.18	1.8	0.01	0.0		0.0	0.0		0.0	9.6	0
10	170	10.chn	3A6	6.5	44	E09	8E+05	2E+06	15.1	0.3	0.1	1.10	0.5	0.02	1.78	0.4	0.02	2.6	5.0	0.4	0.07	7.0	0.01	0.19	1.7	0.01	0.0		0.0	0.0		0.0	9.5	0
10	170	5.chn	3A6	6.5	44	F09	8E+05	2E+06	15.8	0.3	0.1	0.87	0.6	0.02	1.49	0.5	0.02	1.9	7.0	0.4	0.08	7.0	0.02	0.22	1.5	0.01	0.0		0.0	0.0		0.0	8.7	0
10	170	36.chn	3A6	6.5	44	G09	8E+05	2E+06	9.1	0.5	0.1	0.78	0.6	0.01	1.11	0.5	0.02	1.9	6.1	0.4	0.07	7.0	0.01	0.53	0.7	0.01	0.0		0.0	0.0		0.0	6.4	0
10	170	42.chn	3A6	6.5	44	C10	8E+05	2E+06	11.8	0.4	0.1	0.79	0.7	0.02	1.06	0.6	0.02	1.9	6.3	0.4	0.06	7.0	0.01	0.11	2.3	0.01	0.0		0.0	0.0		0.0	6.7	0
10	170	22.chn	3A6	6.5	44	D10	8E+05	2E+06	14.9	0.4	0.2	0.97	0.6	0.02	1.97	0.4	0.02	2.6	5.2	0.4	0.08	7.0	0.02	0.21	1.6	0.01	0.0		0.0	0.0		0.0	9.5	0
10	170	11.chn	3A6	6.5	44	E10	8E+05	2E+06	12.8	0.4	0.2	1.07	0.5	0.02	1.73	0.4	0.02	2.2	5.8	0.4	0.08	6.0	0.01	0.26	1.3	0.01	0.0		0.0	0.0		0.0	8.9	0
10	170	34.chn	3A6	6.5	44	F10	8E+05	2E+06	9.6	0.4	0.1	0.89	0.6	0.02	1.28	0.5	0.02	2.1	5.8	0.4	0.08	6.0	0.02	0.43	0.8	0.01	0.1	25.2	0.1	0.0		0.0	7.0	0
10	170	68chn	3A6	6.5	44	F10	8E+05	2E+06	9.7	0.4	0.1	0.85	0.6	0.02	1.29	0.5	0.02	2.1	5.7	0.4	0.07	7.0	0.02	0.44	0.8	0.01	0.0		0.0	0.0		0.0	7.0	0
10	170	28.chn	3A6	6.5	44	C11	8E+05	2E+06	14.9	0.4	0.2	0.96	0.6	0.02	1.69	0.4	0.02	2.3	5.6	0.4	0.07	7.0	0.01	0.17	1.8	0.01	0.0		0.0	0.0		0.0	9.1	0
10	170	23.chn	3A6	6.5	44	D11	8E+05	2E+06	15.7	0.3	0.1	1.13	0.5	0.02	2.03	0.4	0.02	2.7	5.2	0.4	0.10	6.0	0.02	0.18	1.8	0.01	0.0		0.0	0.0		0.0	10.2	0
10	170	12.chn	3A6	6.5	44	E11	8E+05	2E+06	11.5	0.4	0.1	0.97	0.6	0.02	1.43	0.5	0.02	2.0	6.3	0.4	0.08	6.0	0.01	0.20	1.5	0.01	0.0		0.0	0.0		0.0	7.9	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5	115	37.chn	45	7.5	53	C8	7E+05	2E+06	11.5	3.7	1.3	0.96	5.1	0.15	1.16	4.6	0.16	5.8	24.4	4.2	0.21	25.2	0.16	0.08	34.0	0.08	0.0		0.0	0.0		0.0	6.3	0
5	115	65.chn	45	7.5	53	C8	7E+05	2E+06	10.1	3.7	1.1	1.04	5.0	0.16	0.98	5.4	0.16	6.6	14.9	3.0	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	6.3	0
5	115	51.chn	45	7.5	53	D8	7E+05	2E+06	13.2	3.4	1.3	1.13	4.6	0.16	1.36	4.2	0.17	0.0		4.1	0.26	22.1	0.17	0.21	14.3	0.09	0.0		0.0	0.0		0.0	7.6	0
5	115	15.txt	1093	1	12.6	W8	7E+05	2E+06	12.0	3.2	1.2	1.09	4.1	0.13	1.76	2.9	0.15	4.0	24.0	2.9	0.00		0.00	0.55	6.0	0.10	0.0		0.0	0.0		0.0	5.8	0
5	115	50.chn	45	7.5	53	D9	7E+05	2E+06	13.5	3.4	1.4	1.07	5.0	0.16	1.49	3.9	0.17	0.0		4.1	0.00		0.00	0.35	9.9	0.10	0.0		0.0	0.0		0.0	8.2	0
5	115	30.chn	45	7.5	53	A9	7E+05	2E+06	11.1	3.7	1.2	0.86	5.6	0.14	1.03	4.9	0.15	0.0		4.1	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	6.0	0
5	115	32.chn	45	7.5	53	B9	7E+05	2E+06	12.8	3.5	1.3	0.90	5.4	0.15	1.19	4.7	0.17	0.0		4.1	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	6.6	0
5	115	36.chn	45	7.5	53	C9	7E+05	2E+06	12.2	3.6	1.3	0.91	5.7	0.16	1.32	4.3	0.17	5.3	23.9	3.8	0.00		0.00	0.16	16.4	0.08	0.0		0.0	0.0		0.0	7.0	0
5	115	64.chn	45	7.5	19.4	C9	7E+05	2E+06	10.4	3.7	1.2	0.96	5.4	0.16	1.15	4.7	0.16	0.0		4.1	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	7.0	0
5	115	14.txt	1093	1	12.6	W9	7E+05	2E+06	14.8	2.9	1.3	1.06	4.3	0.14	1.73	3.0	0.16	0.0		0.0	0.21	19.9	0.13	0.52	6.4	0.10	0.0		0.0	0.0		0.0	6.3	0
5	115	16.chn	45	7.5	53	A10	7E+05	2E+06	8.1	4.5	1.1	0.82	5.6	0.14	0.91	5.4	0.15	0.0		4.1	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	4.9	0
5	115	33.chn	45	7.5	53	B10	7E+05	2E+06	12.9	3.5	1.4	0.91	5.6	0.15	1.33	4.3	0.17	5.9	24.3	4.3	0.00		0.00	0.12	23.4	0.08	0.0		0.0	0.0		0.0	7.5	0
5	115	35.chn	45	7.5	53	C10	7E+05	2E+06	12.4	3.5	1.3	1.11	4.8	0.16	1.41	4.2	0.18	0.0		4.1	0.27	21.2	0.17	0.10	26.3	0.08	0.0		0.0	0.0		0.0	7.6	0
5	115	49.chn	45	7.5	53	D10	7E+05	2E+06	14.0	3.3	1.4	1.17	4.7	0.16	1.53	4.0	0.18	0.0		4.1	0.23	24.5	0.17	0.41	8.6	0.11	0.0		0.0	0.0		0.0	8.4	0
5	115	13.txt	1093	1	12.6	W10	7E+05	2E+06	12.3	3.2	1.2	1.02	4.2	0.13	1.42	3.4	0.14	0.0		0.0	0.16	23.3	0.11	0.46	7.0	0.10	0.0		0.0	0.0		0.0	5.3	0
5	115	68.chn	45	7.5	19.4	P2	7E+05	2E+06	11.8	3.5	1.2	1.25	4.5	0.17	1.34	4.3	0.17	4.6	28.1	3.8	0.00		0.00	0.10	28.7	0.08	0.0		0.0	0.0		0.0	4.3	0
5	115	17.chn	45	7.5	53	A11	7E+05	2E+06	10.3	3.8	1.2	0.89	5.4	0.14	1.12	4.6	0.15	0.0		4.1	0.00		0.00	0.16	17.1	0.08	0.0		0.0	0.0		0.0	6.0	0
5	115	18.chn	45	7.5	53	B11	7E+05	2E+06	13.9	3.4	1.4	1.13	4.8	0.16	1.51	4.0	0.18	0.0		4.1	0.00		0.00	0.09	34.0	0.09	0.0		0.0	0.0		0.0	8.5	0
5	115	34.chn	45	7.5	53	C11	7E+05	2E+06	13.6	3.4	1.4	1.05	5.0	0.16	1.43	4.1	0.18	0.0		4.1	0.00		0.00	0.12	22.7	0.08	0.0		0.0	0.0		0.0	7.6	0
5	115	48.chn	45	7.5	53	D11	7E+05	2E+06	11.5	3.7	1.3	1.11	4.9	0.16	1.35	4.1	0.17	0.0		4.1	0.00		0.00	0.39	9.1	0.11	0.0		0.0	0.0		0.0	7.2	0
5	115	12.txt	1093	1	12.6	W11	7E+05	2E+06	14.1	3.0	1.3	1.13	4.1	0.14	1.59	3.2	0.15	4.4	22.4	3.0	0.00		0.00	0.52	6.1	0.10	0.0		0.0	0.0		0.0	5.9	0
5	209	110.chn	6A6	6.5	44	8H	7E+05	2E+06	9.1	0.4	0.1	0.66	0.7	0.01	0.85	0.6	0.02	1.9	6.2	0.3	0.09	5.9	0.02	0.50	0.8	0.01	0.0		0.0	0.0		0.0	5.5	0
6	156.2	313.chn	1A66F	6.5	44	G03	8E+05	2E+06	12.0	0.5	0.2	0.83	1.0	0.02	1.12	1.0	0.03	1.4	13.0	0.6	0.08	7.0	0.02	0.05	6.0	0.01	0.2	20.0	0.1	0.0		0.0	7.0	0
6	165	307.chn	1A66F	6.5	44	I03+25	8E+05	2E+06	14.8	0.5	0.2	0.82	1.0	0.02	1.04	1.0	0.03	1.6	12.0	0.6	0.07	8.0	0.02	0.05	6.0	0.01	0.4	11.0	0.1	0.0		0.0	7.1	0
6	165	308.chn	1A66F	6.5	44	J03+25	8E+05	2E+06	14.3	0.5	0.2	0.85	1.0	0.03	0.91	1.0	0.03	1.6	12.0	0.6	0.07	8.0	0.02	0.04	8.0	0.01	0.4	10.0	0.1	0.0		0.0	6.7	0
6	165	309.chn	1A66F	6.5	44	K03+25	8E+05	2E+06	14.2	0.5	0.2	0.88	1.0	0.03	0.82	1.0	0.02	1.8	11.0	0.6	0.06	8.0	0.02	0.03	9.0	0.01	0.5	8.0	0.1	0.0		0.0	6.4	0
6	156.2	268.chn	1A66F	6.5	44	F04	8E+05	2E+06	17.3	0.5	0.3	0.92	1.0	0.03	1.27	1.0	0.04	1.7	12.0	0.6	0.08	8.0	0.02	0.05	6.0	0.01	0.0		0.0	0.0		0.0	8.3	0
6	156.2	312.chn	1A66F	6.5	44	G04	8E+05	2E+06	12.4	0.5	0.2	0.90	1.0	0.03	1.20	1.0	0.04	1.3	16.0	0.6	0.07	8.0	0.02	0.06	5.0	0.01	0.2	21.0	0.1	0.0		0.0	7.2	0
6	156.2	314A.chn	1A66F	6.5	44	H04	8E+05	2E+06	12.5	1.0	0.4	0.81	1.0	0.02	1.15	1.0	0.03	2.0	16.0	1.0	0.06	16.0	0.03	0.09	6.0	0.02	0.4	21.0	0.2	0.0		0.0	7.0	0
6	156.2	317.chn	1A66F	6.5	44	H04	8E+05	2E+06	13.0	0.5	0.2	0.76	1.0	0.02	1.19	1.0	0.04	1.6	13.0	0.6	0.09	7.0	0.02	0.10	3.0	0.01	0.3	12.0	0.1	0.0		0.0	7.2	0
6	165	303.chn	1A66F	6.5	44	I04	8E+05	2E+06	12.5	0.5	0.2	0.79	1.0	0.02	1.13	1.0	0.03	1.5	13.0	0.6	0.07	8.0	0.02	0.25	1.0	0.01	1.0	4.0	0.1	0.0		0.0	6.9	0
6	165	302.chn	1A66F	6.5	44	J04	8E+05	2E+06	11.7	0.5	0.2	0.81	1.0	0.02	1.11	1.0	0.03	1.3	15.0	0.6	0.07	8.0	0.02	0.28	1.0	0.01	1.5	3.0	0.1	0.0		0.0	6.8	0
6	156.2	269.chn	1A66F	6.5	44	F05	8E+05	2E+06	11.6	0.5	0.2	0.72	1.0	0.02	1.05	1.0	0.03	1.3	15.0	0.6	0.07	9.0	0.02	0.08	4.0	0.01	0.0		0.0	0.0		0.0	6.3	0
6	156.2	323.chn	1A66F	6.5	44	G05	8E+05	2E+06	17.6	0.5	0.3	1.06	1.0	0.03	1.32	1.0	0.04	1.8	12.0	0.6	0.09	7.0	0.02	0.02	15.0	0.01	0.0		0.0	0.0		0.0	8.7	0
6	156.2	318.chn	1A66F	6.5	44	H05	8E+05	2E+06	12.5	0.5	0.2	0.80	1.0	0.02	1.15	1.0	0.03	1.5	13.0	0.6	0.09	7.0	0.02	0.09	3.0	0.01	0.4	11.0	0.1	0.0		0.0	7.1	0
6	165	304.chn	1A66F	6.5	44	I05	8E+05	2E+06	18.1	0.5	0.3	0.86	1.0	0.03	1.46	1.0	0.04	1.7	13.0	0.6	0.08	8.0	0.02	0.11	3.0	0.01	0.4	10.0	0.1	0.0		0.0	9.1	0
6	165	301.chn	1A66F	6.5	44	J05	8E+05	2E+06	14.9	0.5	0.2	0.75	1.0	0.02	0.97	1.0	0.03	1.4	14.0	0.6	0.08	8.0	0.02	0.07	4.0	0.01	0.4	11.0	0.1	0.0		0.0	6.9	0
6	156.2	252.chn	1A66F	6.5	44	F06	8E+05	2E+06	11.0	0.5	0.2	0.68	1.0	0.02	1.05	1.0	0.03	1.4	13.0	0.6	0.07	8.0	0.02	0.11	3.0	0.01	0.2	25.0	0.1	0.0		0.0	6.1	0
6	156.2	282.chn	1A66F	6.5	44	G06	8E+05	2E+06	17.0	0.5	0.3	0.80	1.0	0.02	1.21	1.0	0.04	1.7	12.0	0.6	0.05	10.0	0.02	0.01	26.0	0.01	0.0		0.0	0.0		0.0	7.8	0
6	156.2	324.chn	1A66F	6.5	44	H06	8E+05	2E+06	16.3	0.5	0.2	0.97	1.0	0.03	1.21	1.0	0.04	1.9	11.0	0.6	0.08	7.0	0.02	0.01	23.0	0.01	0.0		0.0	0.0		0.0	8.0	0
6	156.2	321.chn	1A66F	6.5	44	I06	8E+05	2E+06	14.5	0.5	0.2	0.72	1.0	0.02	1.19	1.0	0.04	1.4	14.0	0.6	0.07	8.0	0.02	0.09	3.0	0.01	0.3	15.0	0.1	0.0		0.0	7.4	0
6	156.2	251.chn	1A66F	6.5	44	F07	8E+05	2E+06	12.0	0.5	0.2	0.73	1.0	0.02	1.11	1.0	0.03	1.4	14.0	0.6	0.08	8.0	0.02	0.12	3.0	0.01	0.0		0.0	0.0		0.0	6.7	0
6	156.2	224.chn	1A66F	6.5	44	G07	8E+05	2E+06	11.7	0.5	0.2	0.81	1.0	0.02	1.04	1.0	0.03	1.6	11.0	0.5	0.06	9.0	0.02	0.02	12.0	0.01	0.1	29.0	0.1	0.0		0.0	8.2	0
6	156.2	283.chn	1A66F	6.5	44	H07	8E+05	2E+06	17.3	0.5	0.3	0.87	1.0	0.03	1.25	1.0	0.04	1.8	12.0	0.6	0.08	8.0	0.02	0.01	28.0	0.01	0.0		0.0	0.0		0.0	8.0	0
6	156.2	325.chn	1A66F	6.5	44	I07	8E+05	2E+06	16.8	0.5	0.3	0.89	1.0	0.03	1.22	1.0	0.04	1.5	14.0	0.6	0.08	8.0	0.02	0.02	18.0	0.01	0.0		0.0	0.0		0.0	7.9	0
6	156.2	322.chn	1A66F	6.5	44	J07	8E+05	2E+06	16.6	0.5	0.2	0.75	1.0	0.02	1.15	1.0	0.03	1.6	12.0	0.6	0.06	9.0	0.02	0.09	4.0	0.01	0.3	13.0	0.1	0.0		0.0	7.6	0
6	141	300.chn	1A66F	6.5	44	M07	8E+05	2E+06	18.6	0.5	0.3	0.77	1.0	0.02	1.09	1.0	0.03	1.6	13.0	0.6	0.07	8.0	0.02	0.03	9.0	0.01	0.3	14.0	0.1	0.0		0.0	8.0	0
6	156.2	270.chn	1A66F	6.5	44	E08	8E+05	2E+06	10.8	0.5	0.2	0.75	1.0	0.02	1.21	1.0	0.04	1.4	14.0	0.6	0.08	8.0	0.02	0.37	1.0	0.01	0.2	17.0	0.1	0.0		0.0	6.9	0
6	156.2	9.chn	1A62F6F	6.5	44	F08	8E+05	2E+06	11.9	0.5	0.2	0.89	1.0	0.03	1.16	1.0	0.03	1.4	16.0	0.7	0.09	8.0	0.02	0.08	4.0	0.01	0.2	28.0	0.1	0.0		0.0	6.8	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
6	156.2	223.chn	1A66F	6.5	44	G08	8E+05	2E+06	13.5	0.5	0.2	0.96	1.0	0.03	1.00	1.0	0.03	1.5	13.0	0.6	0.06	8.0	0.01	0.01	27.0	0.01	0.0		0.0	0.0		0.0	7.3	0
6	156.2	242.chn	1A66F	6.5	44	H08	8E+05	2E+06	14.0	0.5	0.2	0.79	1.0	0.02	1.09	1.0	0.03	1.6	12.0	0.6	0.09	7.0	0.02	0.02	12.0	0.01	0.0		0.0	0.0		0.0	6.9	0
6	156.2	243.chn	1A66F	6.5	44	I08	8E+05	2E+06	12.1	0.5	0.2	0.67	1.0	0.02	0.97	1.0	0.03	1.2	16.0	0.6	0.06	10.0	0.02	0.02	12.0	0.01	0.0		0.0	0.0		0.0	6.1	0
6	156.2	284.chn	1A66F	6.5	44	J08	8E+05	2E+06	17.6	0.5	0.3	0.86	1.0	0.03	1.29	1.0	0.04	1.7	12.0	0.6	0.06	9.0	0.02	0.03	12.0	0.01	0.2	24.0	0.1	0.0		0.0	8.3	0
6	141	295.chn	1A66F	6.5	44	K08	8E+05	2E+06	17.8	0.5	0.3	0.85	1.0	0.03	1.30	1.0	0.04	1.7	12.0	0.6	0.11	7.0	0.02	0.06	6.0	0.01	0.3	15.0	0.1	0.0		0.0	8.5	0
6	141	296.chn	1A66F	6.5	44	L08	8E+05	2E+06	19.4	0.5	0.3	0.80	1.0	0.02	1.27	1.0	0.04	2.0	10.0	0.6	0.09	8.0	0.02	0.06	6.0	0.01	0.3	12.0	0.1	0.0		0.0	8.5	0
6	141	297.chn	1A66F	6.5	44	M08	8E+05	2E+06	20.3	0.5	0.3	0.78	1.0	0.02	1.35	1.0	0.04	1.6	13.0	0.6	0.09	8.0	0.02	0.05	6.0	0.01	0.2	18.0	0.1	0.0		0.0	8.9	0
6	141	288.chn	1A66F	6.5	44	M09	8E+05	2E+06	17.6	0.5	0.3	0.88	1.0	0.03	1.29	1.0	0.04	1.7	13.0	0.6	0.09	7.0	0.02	0.08	4.0	0.01	0.5	9.0	0.1	0.0		0.0	8.4	0
6	156.2	287.chn	1A66F	6.5	44	N09	8E+05	2E+06	15.8	0.5	0.2	0.88	1.0	0.03	1.27	1.0	0.04	1.7	12.0	0.6	0.07	8.0	0.02	0.13	3.0	0.01	0.7	6.0	0.1	0.0		0.0	8.1	0
6	156.2	271.chn	1A66F	6.5	44	E09	8E+05	2E+06	10.2	0.5	0.2	0.74	1.0	0.02	1.15	1.0	0.03	1.7	8.0	0.4	0.07	9.0	0.02	0.24	2.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	281.chn	1A66F	6.5	44	E09	8E+05	2E+06	11.0	0.5	0.2	0.80	1.0	0.02	1.19	1.0	0.04	1.7	11.0	0.6	0.08	8.0	0.02	0.24	2.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	8.chn	1A62F6F	6.5	44	F09	8E+05	2E+06	11.9	0.5	0.2	0.93	1.0	0.03	1.13	1.0	0.03	1.5	14.0	0.6	0.09	7.0	0.02	0.07	5.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	280.chn	1A66F	6.5	44	G09	8E+05	2E+06	14.7	0.5	0.2	0.90	1.0	0.03	1.13	1.0	0.03	1.6	12.0	0.6	0.08	7.0	0.02	0.02	12.0	0.01	0.0		0.0	0.0		0.0	7.2	0
6	156.2	241.chn	1A66F	6.5	44	H09	8E+05	2E+06	17.2	0.5	0.3	0.75	1.0	0.02	1.16	1.0	0.03	1.3	15.0	0.6	0.06	9.0	0.02	0.03	10.0	0.01	0.0		0.0	0.0		0.0	8.0	0
6	156.2	237.chn	1A66F	6.5	44	I09	8E+05	2E+06	13.0	0.5	0.2	0.76	1.0	0.02	1.13	1.0	0.03	1.5	13.0	0.6	0.08	8.0	0.02	0.06	5.0	0.01	0.2	17.0	0.1	0.0		0.0	7.0	0
6	141	294.chn	1A66F	6.5	44	J09	8E+05	2E+06	11.6	0.5	0.2	0.75	1.0	0.02	1.14	1.0	0.03	1.5	13.0	0.6	0.08	8.0	0.02	0.11	3.0	0.01	0.4	11.0	0.1	0.0		0.0	6.6	0
6	141	290.chn	1A66F	6.5	44	K09	8E+05	2E+06	12.5	0.5	0.2	0.77	1.0	0.02	1.25	1.0	0.04	1.6	12.0	0.6	0.10	7.0	0.02	0.16	2.0	0.01	0.3	13.0	0.1	0.0		0.0	7.2	0
6	141	289.chn	1A66F	6.5	44	L09	8E+05	2E+06	13.5	0.5	0.2	0.80	1.0	0.02	1.30	1.0	0.04	1.7	12.0	0.6	0.09	7.0	0.02	0.24	2.0	0.01	0.8	5.0	0.1	0.0		0.0	7.7	0
6	156.2	293.chn	1A66F	6.5	44	O09	8E+05	2E+06	15.3	0.5	0.2	0.90	1.0	0.03	1.17	1.0	0.04	1.6	13.0	0.6	0.09	7.0	0.02	0.16	2.0	0.01	0.4	9.0	0.1	0.0		0.0	7.9	0
6	156.2	259.chn	1A66F	6.5	44	E10	8E+05	2E+06	10.3	0.5	0.2	0.65	1.0	0.02	0.95	1.0	0.03	1.3	14.0	0.6	0.06	9.0	0.02	0.11	3.0	0.01	0.2	26.0	0.1	0.0		0.0	5.8	0
6	156.2	7.chn	1A62F6F	6.5	44	F10	8E+05	2E+06	12.1	0.5	0.2	0.94	1.0	0.03	1.10	1.0	0.03	1.6	13.0	0.6	0.07	9.0	0.02	0.05	7.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	227.chn	1A66F	6.5	44	G10	8E+05	2E+06	12.2	0.5	0.2	0.76	1.0	0.02	0.94	1.0	0.03	1.6	9.0	0.4	0.05	10.0	0.01	0.02	11.0	0.01	0.0		0.0	0.0		0.0	6.3	0
6	156.2	231.chn	1A66F	6.5	44	H10	8E+05	2E+06	12.6	0.5	0.2	0.79	1.0	0.02	1.15	1.0	0.03	1.5	13.0	0.6	0.06	9.0	0.02	0.08	4.0	0.01	0.2	18.0	0.1	0.0		0.0	6.8	0
6	156.2	275.chn	1A66F	6.5	44	D11	8E+05	2E+06	11.4	0.5	0.2	0.79	1.0	0.02	1.10	1.0	0.03	1.7	11.0	0.6	0.08	7.0	0.02	0.21	2.0	0.01	0.1	35.0	0.1	0.0		0.0	6.7	0
6	156.2	258.chn	1A66F	6.5	44	E11	8E+05	2E+06	10.4	0.5	0.2	0.81	1.0	0.02	1.01	1.0	0.03	1.4	13.0	0.5	0.09	7.0	0.02	0.09	3.0	0.01	0.0		0.0	0.0		0.0	6.0	0
6	156.2	3.chn	1A62F6F	6.5	44	F11	8E+05	2E+06	12.6	0.5	0.2	0.74	1.0	0.02	0.92	1.0	0.03	1.3	17.0	0.6	0.07	10.0	0.02	0.03	11.0	0.01	0.0		0.0	0.0		0.0	6.1	0
6	156.2	228.chn	1A66F	6.5	44	G11	8E+05	2E+06	13.1	0.5	0.2	1.02	1.0	0.03	1.19	1.0	0.04	1.5	13.0	0.6	0.07	7.0	0.02	0.04	7.0	0.01	0.0		0.0	0.0		0.0	7.4	0
6	156.2	230.chn	1A66F	6.5	44	H11	8E+05	2E+06	11.0	0.5	0.2	0.79	1.0	0.02	1.10	1.0	0.03	1.4	14.0	0.6	0.08	8.0	0.02	0.17	2.0	0.01	0.2	22.0	0.1	0.0		0.0	6.4	0
6	156.2	256.chn	1A66F	6.5	44	D12	8E+05	2E+06	10.7	0.5	0.2	0.92	1.0	0.03	0.91	1.0	0.03	1.3	18.0	0.7	0.06	9.0	0.02	0.09	3.0	0.01	0.0		0.0	0.0		0.0	8.0	0
6	156.2	257.chn	1A66F	6.5	44	E12	8E+05	2E+06	11.9	0.5	0.2	0.92	1.0	0.03	1.09	1.0	0.03	1.6	12.0	0.6	0.08	7.0	0.02	0.06	5.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	1.chn	1A62F6F	6.5	44	F12	8E+05	2E+06	14.9	0.5	0.2	0.85	1.0	0.03	1.21	1.0	0.04	1.4	16.0	0.7	0.08	9.0	0.02	0.04	8.0	0.01	0.0		0.0	0.0		0.0	7.5	0
6	156.2	229.chn	1A66F	6.5	44	G12	8E+05	2E+06	11.6	0.5	0.2	0.89	1.0	0.03	1.09	1.0	0.03	1.5	13.0	0.6	0.07	7.0	0.02	0.08	4.0	0.01	0.0		0.0	0.0		0.0	6.7	0
6	156.2	255.chn	1A66F	6.5	44	D13	8E+05	2E+06	11.5	0.5	0.2	0.98	1.0	0.03	1.03	1.0	0.03	1.4	14.0	0.6	0.07	7.0	0.02	0.09	4.0	0.01	0.0		0.0	0.0		0.0	8.3	0
6	156.2	262.chn	1A66F	6.5	44	E13	8E+05	2E+06	13.3	0.5	0.2	0.94	1.0	0.03	1.10	1.0	0.03	1.3	15.0	0.6	0.07	8.0	0.02	0.07	4.0	0.01	0.0		0.0	0.0		0.0	7.3	0
6	156.2	2.chn	1A62F6F	6.5	44	F13	8E+05	2E+06	11.1	0.5	0.2	0.77	1.0	0.02	1.07	1.0	0.03	1.4	15.0	0.6	0.08	8.0	0.02	0.11	3.0	0.01	0.0		0.0	0.0		0.0	6.2	0
6	156.2	274.chn	1A66F	6.5	44	C14	8E+05	2E+06	10.8	0.5	0.2	0.77	1.0	0.02	1.15	1.0	0.03	1.5	12.0	0.5	0.10	7.0	0.02	0.30	1.0	0.01	0.1	30.0	0.1	0.0		0.0	6.4	0
6	156.2	6.chn	1A62F6F	6.5	44	D14	8E+05	2E+06	11.8	0.5	0.2	0.98	1.0	0.03	1.10	1.0	0.03	1.3	16.0	0.6	0.07	9.0	0.02	0.11	3.0	0.01	0.0		0.0	0.0		0.0	6.8	0
6	156.2	276.chn	1A66F	6.5	44	E14	8E+05	2E+06	11.7	0.5	0.2	0.80	1.0	0.02	1.08	1.0	0.03	1.5	13.0	0.6	0.08	7.0	0.02	0.20	2.0	0.01	0.1	31.0	0.1	0.0		0.0	6.6	0
6	156.2	265.chn	1A66F	6.5	44	C15	8E+05	2E+06	10.2	0.5	0.2	0.70	1.0	0.02	1.16	1.0	0.03	1.2	16.0	0.6	0.08	8.0	0.02	0.46	1.0	0.01	0.2	21.0	0.1	0.0		0.0	6.7	0
6	156.2	263.chn	1A66F	6.5	44	D15	8E+05	2E+06	12.1	0.5	0.2	0.95	1.0	0.03	1.14	1.0	0.03	1.6	13.0	0.6	0.08	7.0	0.02	0.18	2.0	0.01	0.0		0.0	0.0		0.0	7.1	0
6	156.2	277.chn	1A66F	6.5	44	E15	8E+05	2E+06	10.4	0.5	0.2	0.75	1.0	0.02	1.18	1.0	0.04	1.4	13.0	0.5	0.08	8.0	0.02	0.44	1.0	0.01	0.2	26.0	0.1	0.0		0.0	6.7	0
6	156.2	264.chn	1A66F	6.5	44	D16	8E+05	2E+06	10.1	0.5	0.2	0.85	1.0	0.03	1.10	1.0	0.03	1.3	14.0	0.6	0.08	7.0	0.02	0.35	1.0	0.01	0.2	20.0	0.1	0.0		0.0	6.6	0
8	172	178.chn	4A6	6.5	44	4T	7E+05	2E+06	19.8	0.3	0.2	0.86	0.7	0.02	1.21	0.6	0.02	1.7	8.3	0.4	0.05	9.0	0.01	0.01	18.7	0.01	0.0		0.0	0.0		0.0	9.1	50
8	172	180.chn	4A6	6.5	44	4V	7E+05	2E+06	16.1	0.3	0.1	0.76	0.7	0.02	1.00	0.6	0.02	2.1	6.0	0.4	0.07	7.0	0.02	0.01	19.7	0.01	0.1	30.4	0.1	0.0		0.0	7.4	0
8	172	179.chn	4A6	6.5	44	4U	7E+05	2E+06	17.4	0.3	0.2	0.79	0.7	0.02	1.06	0.6	0.02	1.8	7.2	0.4	0.04	10.0	0.01	0.01	23.0	0.01	0.0		0.0	0.0		0.0	8.1	40
8	172	177.chn	4A6	6.5	44	4S	7E+05	2E+06	22.0	0.3	0.2	0.94	0.7	0.02	1.33	0.5	0.02	2.0	7.2	0.4	0.09	7.0	0.02	0.02	13.7	0.01	0.0		0.0	0.0		0.0	9.9	50
8	172	36.chn	6A6	6.5	44	6X	8E+05	2E+06	15.7	0.3	0.1	0.87	0.7	0.02	1.05	0.6	0.02	2.3	5.9	0.4	0.09	6.1	0.02	0.01	21.2	0.01	0.0		0.0	0.0		0.0	7.5	0
8	172	174.chn	4A6	6.5	44	4R	7E+05	2E+06	20.3	0.3	0.2	0.93	0.6	0.02	1.30	0.5	0.02	2.1	6.7	0.4	0.06	8.0	0.01	0.01	19.7	0.01	0.8	4.9	0.1	0.0		0.0	9.6	0
8	172	37.chn	6A6	6.5	44	6Y	8E+05	2E+06	17.1	0.3	0.2	0.94	0.6	0.02	1.28	0.5	0.02	2.2	6.2	0.4	0.08	7.1	0.02	0.04	7.4	0.01	0.0		0.0	0.0		0.0	8.5	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5		92.chn	1A66F	6.5	44	G14	7E+05	2E+06	11.6	0.5	0.2	0.86	1.0	0.03	1.62	0.5	0.02	1.5	14.0	0.6	0.09	8.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.4	0
5		19.CHN	30687	1	12.4	H14	7E+05	2E+06	8.7	1.0	0.3	1.21	1.0	0.04	1.42	1.0	0.04	2.0	12.0	0.7	0.07	12.0	0.02	0.46	2.0	0.03	0.0		0.0	0.0		0.0	7.8	0
5		99.chn	1A66F	6.5	44	H14	7E+05	2E+06	15.3	0.5	0.2	1.29	1.0	0.04	2.21	0.5	0.03	2.6	9.0	0.7	0.11	7.0	0.02	0.60	1.0	0.02	0.0		0.0	0.0		0.0	11.4	0
5		3.chn	40277	1	12.4	B15	7E+05	2E+06	7.3	2.0	0.4	0.70	2.0	0.04	1.12	1.0	0.03	1.5	20.0	0.9	0.09	13.0	0.03	0.36	2.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5		29.chn	40293	1	12.4	B15	7E+05	2E+06	12.7	1.0	0.4	1.24	1.0	0.04	1.04	1.0	0.03	0.0		0.0	0.03	15.0	0.01	0.41	2.0	0.02	0.0		0.0	0.0		0.0	7.7	0
5		56.chn	1A66F	6.5	44	B15	7E+05	2E+06	11.6	0.5	0.2	0.82	1.0	0.02	0.91	1.0	0.03	1.1	17.0	0.6	0.06	9.0	0.02	0.34	1.0	0.01	0.0		0.0	0.0		0.0	6.3	0
5		3.CHN	30687	1	12.4	C15	7E+05	2E+06	7.5	1.0	0.2	0.82	1.0	0.02	1.25	1.0	0.04	2.1	17.0	1.1	0.07	13.0	0.03	0.61	1.0	0.02	0.0		0.0	0.0		0.0	6.4	0
5		161.chn	1A66F	6.5	44	C15	7E+05	2E+06	6.5	1.0	0.2	0.83	1.0	0.02	0.98	1.0	0.03	1.3	14.0	0.5	0.04	11.0	0.01	0.50	1.0	0.02	0.0		0.0	0.0		0.0	5.6	0
5		29.CHN	30687	1	12.4	D15	7E+05	2E+06	14.0	1.0	0.4	1.23	1.0	0.04	1.62	1.0	0.05	1.8	16.0	0.8	0.03	17.0	0.02	0.39	2.0	0.02	0.0		0.0	0.0		0.0	9.4	0
5	133.2	78.chn	1A66F	6.5	44	D15	7E+05	2E+06	12.5	0.5	0.2	0.85	1.0	0.03	1.43	1.0	0.04	1.6	13.0	0.6	0.10	7.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	8.0	0
5		18.CHN	40227	1	12.4	E15	7E+05	2E+06	17.6	1.0	0.5	1.68	1.0	0.05	2.38	1.0	0.07	2.9	15.0	1.3	0.07	12.0	0.03	0.50	1.0	0.02	0.0		0.0	0.0		0.0	13.0	0
5	133.2	79.chn	1A66F	6.5	44	E15	7E+05	2E+06	14.6	0.5	0.2	1.02	1.0	0.03	1.86	0.5	0.03	2.5	9.0	0.7	0.11	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	10.0	0
5		17.CHN	40293	1	12.4	F15	7E+05	2E+06	13.4	1.0	0.4	1.90	1.0	0.06	1.98	1.0	0.06	2.3	17.0	1.2	0.03	13.0	0.01	0.49	2.0	0.03	0.0		0.0	0.0		0.0	11.0	0
5		80.chn	1A66F	6.5	44	F15	7E+05	2E+06	13.2	0.5	0.2	1.01	1.0	0.03	1.81	0.5	0.03	2.3	9.0	0.6	0.11	6.0	0.02	0.42	1.0	0.01	0.0		0.0	0.0		0.0	9.4	0
5		12.CHN	30699	1	12.4	G15	7E+05	2E+06	12.1	1.0	0.4	1.82	1.0	0.05	1.97	1.0	0.06	1.9	20.0	1.1	0.05	12.0	0.02	0.47	2.0	0.03	0.0		0.0	0.0		0.0	10.6	0
5		81.chn	1A66F	6.5	44	G15	7E+05	2E+06	11.6	0.5	0.2	0.95	1.0	0.03	1.71	0.5	0.03	1.9	11.0	0.6	0.09	7.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.6	0
5		18.CHN	30687	1	12.4	H15	7E+05	2E+06	16.3	1.0	0.5	1.48	1.0	0.04	2.03	1.0	0.06	2.5	11.0	0.8	0.07	12.0	0.03	0.39	2.0	0.02	0.0		0.0	0.0		0.0	11.3	0
5		87.chn	1A66F	6.5	44	H15	7E+05	2E+06	14.9	0.5	0.2	1.14	1.0	0.03	1.83	0.5	0.03	2.1	11.0	0.7	0.09	7.0	0.02	0.37	1.0	0.01	0.0		0.0	0.0		0.0	10.0	0
5		2.chn	40293	1	12.4	B16	7E+05	2E+06	15.9	1.0	0.5	0.65	2.0	0.04	0.98	1.0	0.03	1.9	16.0	0.9	0.05	16.0	0.03	0.34	2.0	0.02	0.0		0.0	0.0		0.0	7.0	0
5		53.chn	1A66F	6.5	44	B16	7E+05	2E+06	11.3	0.5	0.2	0.61	1.0	0.02	0.76	1.0	0.02	1.5	25.0	1.1	0.04	11.0	0.01	0.27	1.0	0.01	0.0		0.0	0.0		0.0	5.7	0
5		2.CHN	30687	1	12.4	C16	7E+05	2E+06	4.5	1.0	0.1	0.64	2.0	0.04	0.85	1.0	0.03	1.4	15.0	0.6	0.04	19.0	0.02	0.72	1.0	0.02	0.0		0.0	0.0		0.0	4.7	0
5		129.chn	1A66F	6.5	44	C16	7E+05	2E+06	5.3	0.8	0.1	0.80	1.1	0.03	0.87	0.9	0.02	1.2	11.8	0.4	0.05	12.0	0.02	0.54	1.0	0.02	0.0		0.0	0.0		0.0	5.0	0
5		30.CHN	30687	1	12.4	D16	7E+05	2E+06	12.5	1.0	0.4	1.08	1.0	0.03	1.50	1.0	0.05	2.3	11.0	0.8	0.07	13.0	0.03	0.42	2.0	0.03	0.0		0.0	0.0		0.0	8.3	0
5	133.2	73.chn	1A66F	6.5	44	D16	7E+05	2E+06	12.6	0.5	0.2	1.03	1.0	0.03	1.36	1.0	0.04	1.5	14.0	0.6	0.09	7.0	0.02	0.32	1.0	0.01	0.0		0.0	0.0		0.0	8.4	0
5		8.CHN	30699	1	12.4	E16	7E+05	2E+06	14.5	1.0	0.4	1.12	1.0	0.03	1.91	1.0	0.06	2.2	18.0	1.2	0.11	11.0	0.04	0.39	2.0	0.02	0.0		0.0	0.0		0.0	9.9	0
5	133.2	74.chn	1A66F	6.5	44	E16	7E+05	2E+06	13.0	0.5	0.2	1.14	1.0	0.03	1.57	1.0	0.05	1.7	13.0	0.7	0.10	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	9.0	0
5		12.CHN	40293	1	12.4	F16	7E+05	2E+06	10.4	1.0	0.3	0.83	1.0	0.02	1.32	1.0	0.04	1.4	24.0	1.0	0.06	16.0	0.03	0.41	2.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5		75.chn	1A66F	6.5	44	F16	7E+05	2E+06	11.4	0.5	0.2	1.11	1.0	0.03	1.38	1.0	0.04	1.8	11.0	0.6	0.10	6.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.0	0
5		12.CHN	40279	1	12.4	G16	7E+05	2E+06	12.6	1.0	0.4	1.09	1.0	0.03	1.82	1.0	0.05	2.6	10.0	0.8	0.08	123.0	0.30	0.41	2.0	0.02	0.0		0.0	0.0		0.0	9.4	0
5		84.chn	1A66F	6.5	44	G16	7E+05	2E+06	11.5	0.5	0.2	1.21	1.0	0.04	1.59	0.5	0.02	1.7	13.0	0.7	0.08	7.0	0.02	0.38	1.0	0.01	0.0		0.0	0.0		0.0	8.7	0
5		13.CHN	40227	1	12.4	H16	7E+05	2E+06	16.0	1.0	0.5	1.17	1.0	0.04	2.13	1.0	0.06	2.4	18.0	1.3	0.12	11.0	0.04	0.52	2.0	0.03	0.0		0.0	0.0		0.0	10.9	0
5		85.chn	1A66F	6.5	44	H16	7E+05	2E+06	13.0	0.5	0.2	1.13	1.0	0.03	1.73	0.5	0.03	1.8	12.0	0.6	0.09	7.0	0.02	0.39	1.0	0.01	0.0		0.0	0.0		0.0	9.4	0
5		1.CHN	30687	1	12.4	B17	7E+05	2E+06	7.6	1.0	0.2	0.68	1.0	0.02	1.03	1.0	0.03	1.8	17.0	0.9	0.04	18.0	0.02	0.75	1.0	0.02	0.0		0.0	0.0		0.0	5.8	0
5		52.chn	1A66F	6.5	44	B17	7E+05	2E+06	10.1	0.5	0.2	0.63	1.0	0.02	0.74	1.0	0.02	1.5	12.0	0.5	0.04	12.0	0.01	0.34	1.0	0.01	0.0		0.0	0.0		0.0	5.5	0
5		159.chn	1A66F	6.5	44	C17	7E+05	2E+06	4.3	1.0	0.1	0.56	1.0	0.02	0.61	1.0	0.02	1.3	14.0	0.5	0.03	16.0	0.01	0.38	1.0	0.01	0.0		0.0	0.0		0.0	4.7	0
5		25.CHN	30699	1	12.4	G17	7E+05	2E+06	12.5	1.0	0.4	1.51	1.0	0.05	1.67	1.0	0.05	1.7	21.0	1.1	0.06	12.0	0.02	0.46	2.0	0.03	0.0		0.0	0.0		0.0	9.5	0
5		31.CHN	40227	1	12.4	D17	7E+05	2E+06	12.8	1.0	0.4	1.57	1.0	0.05	1.75	1.0	0.05	2.2	12.0	0.8	0.06	12.0	0.02	0.49	2.0	0.03	0.0		0.0	0.0		0.0	9.9	0
5		67.chn	1A66F	6.5	44	D17	7E+05	2E+06	10.2	0.5	0.2	1.02	1.0	0.03	1.18	1.0	0.04	1.9	10.0	0.6	0.05	9.0	0.01	0.37	1.0	0.01	0.0		0.0	0.0		0.0	7.2	0
5		1.chn	40227	1	12.4	C17	7E+05	2E+06	5.6	1.0	0.2	0.72	1.0	0.02	1.03	1.0	0.03	1.5	14.0	0.6	0.04	19.0	0.02	0.83	1.0	0.02	0.0		0.0	0.0		0.0	5.5	0
5		6.CHN	30699	1	12.4	E17	7E+05	2E+06	14.2	1.0	0.4	1.22	1.0	0.04	1.84	1.0	0.06	2.0	19.0	1.2	0.07	13.0	0.03	0.55	2.0	0.03	0.0		0.0	0.0		0.0	9.9	0
5		68.chn	1A66F	6.5	44	E17	7E+05	2E+06	11.5	0.5	0.2	1.08	1.0	0.03	1.43	1.0	0.04	1.9	11.0	0.6	0.09	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	8.2	0
5		26.CHN	30699	1	12.4	F17	7E+05	2E+06	12.6	1.0	0.4	1.50	1.0	0.05	1.93	1.0	0.06	1.6	27.0	1.3	0.05	13.0	0.02	0.53	2.0	0.03	0.0		0.0	0.0		0.0	9.9	0
5		69.chn	1A66F	6.5	44	F17	7E+05	2E+06	10.7	0.5	0.2	1.09	1.0	0.03	1.38	1.0	0.04	1.6	13.0	0.6	0.07	8.0	0.02	0.38	1.0	0.01	0.0		0.0	0.0		0.0	8.1	0
5		70.chn	1A66F	6.5	44	G17	7E+05	2E+06	10.9	0.5	0.2	1.14	1.0	0.03	1.33	1.0	0.04	1.8	11.0	0.6	0.08	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	8.0	0
5		13.CHN	30687	1	12.4	H17	7E+05	2E+06	11.8	1.0	0.4	0.93	1.0	0.03	1.61	1.0	0.05	1.8	19.0	1.0	0.10	11.0	0.03	0.41	2.0	0.02	0.0		0.0	0.0		0.0	8.3	0
5		86.chn	1A66F	6.5	44	H17	7E+05	2E+06	10.8	0.5	0.2	0.97	1.0	0.03	1.42	1.0	0.04	1.7	12.0	0.6	0.07	8.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	7.7	0
5	115	10.txt	1093	1	12.6	W1	7E+05	2E+06	12.6	3.2	1.2	1.19	4.0	0.14	2.22	3.5	0.23	0.0		0.0	0.11	31.3	0.10	0.41	8.1	0.10	0.0		0.0	0.0		0.0	6.2	0
5	115	7.chn	45	7.5	53	A1	7E+05	2E+06	7.7	4.5	1.0	0.96	5.0	0.14	0.98	5.0	0.15	0.0		0.0	0.00		0.00	0.53	6.7	0.11	0.0		0.0	0.0		0.0	5.1	0
5	115	12.chn	45	7.5	53	B1	7E+05	2E+06	7.8	4.6	1.1	1.00	4.6	0.14	1.02	4.8	0.15	0.0		0.0	0.00		0.00	0.58	6.2	0.11	0.0		0.0	0.0		0.0	5.6	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5	115	20.chn	45	7.5	53	C1	7E+05	2E+06	10.0	3.9	1.2	0.94	5.3	0.15	1.31	4.3	0.17	0.0		0.0	0.00		0.00	0.53	7.0	0.11	0.0		0.0	0.0		0.0	6.7	0
5	115	58.chn	45	7.5	53	D1	7E+05	2E+06	10.7	3.8	1.2	1.38	4.0	0.17	1.60	3.7	0.18	0.0		0.0	0.00		0.00	0.48	7.7	0.11	0.0		0.0	0.0		0.0	8.2	0
5		25.CHN	30687	1	12.4	B18	7E+05	2E+06	9.0	1.0	0.3	1.31	1.0	0.04	0.97	1.0	0.03	1.2	25.0	0.9	3.45	13.0	1.35	0.65	1.0	0.02	0.0		0.0	0.0		0.0	7.1	0
5		51.chn	1A66F	6.5	44	B18	7E+05	2E+06	8.3	1.0	0.2	0.69	1.0	0.02	0.84	1.0	0.03	1.3	10.0	0.4	0.04	11.0	0.01	0.45	1.0	0.01	0.0		0.0	0.0		0.0	5.5	0
5		2.chn	40227	1	12.4	C18	7E+05	2E+06	5.4	1.0	0.2	0.71	1.0	0.02	0.98	1.0	0.03	1.6	19.0	0.9	0.07	14.0	0.03	0.68	1.0	0.02	0.0		0.0	0.0		0.0	5.3	0
5		58.chn	1A66F	6.5	44	C18	7E+05	2E+06	6.7	1.0	0.2	0.69	1.0	0.02	0.74	1.0	0.02	1.1	13.0	0.4	0.04	10.0	0.01	0.39	1.0	0.01	0.0		0.0	0.0		0.0	5.0	0
5		31.CHN	30687	1	12.4	D18	7E+05	2E+06	13.5	1.0	0.4	1.02	1.0	0.03	1.60	1.0	0.05	1.7	22.0	1.1	0.07	13.0	0.03	0.40	2.0	0.02	0.0		0.0	0.0		0.0	8.8	0
5		61.chn	1A66F	6.5	44	D18	7E+05	2E+06	10.7	0.5	0.2	0.90	1.0	0.03	1.21	1.0	0.04	1.6	12.0	0.6	0.06	8.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	7.3	0
5		32.CHN	40227	1	12.4	E18	7E+05	2E+06	9.2	1.0	0.3	1.12	1.0	0.03	1.34	1.0	0.04	1.9	18.0	1.0	0.05	15.0	0.02	0.46	2.0	0.03	0.0		0.0	0.0		0.0	7.5	0
5		62.chn	1A66F	6.5	44	E18	7E+05	2E+06	9.1	0.5	0.1	0.85	1.0	0.03	1.10	1.0	0.03	1.4	13.0	0.5	0.05	10.0	0.01	0.35	1.0	0.01	0.0		0.0	0.0		0.0	6.5	0
5		12.chn	40227	1	12.4	F18	7E+05	2E+06	13.1	1.0	0.4	1.15	1.0	0.03	1.68	1.0	0.05	2.5	13.0	1.0	0.08	15.0	0.04	0.54	2.0	0.03	0.0		0.0	0.0		0.0	9.4	0
5		63.chn	1A66F	6.5	44	F18	7E+05	2E+06	10.8	0.5	0.2	0.93	1.0	0.03	1.28	1.0	0.04	1.7	12.0	0.6	0.08	8.0	0.02	0.39	1.0	0.01	0.0		0.0	0.0		0.0	7.5	0
5		10.CHN	40293	1	12.4	G18	7E+05	2E+06	15.3	1.0	0.5	1.07	1.0	0.03	1.02	1.0	0.03	2.1	12.0	0.8	0.04	16.0	0.02	0.15	4.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5		64.chn	1A66F	6.5	44	G18	7E+05	2E+06	11.1	0.5	0.2	1.01	1.0	0.03	1.56	1.0	0.05	1.7	12.0	0.6	0.06	9.0	0.02	0.34	1.0	0.01	0.0		0.0	0.0		0.0	8.3	0
5	115	11.txt	1093	1	12.6	W2	7E+05	2E+06	13.5	3.1	1.3	1.30	3.8	0.15	2.09	2.6	0.16	4.8	21.4	3.1	0.10	30.4	0.09	0.53	6.3	0.10	0.0		0.0	0.0		0.0	6.6	0
5	115	19.chn	45	7.5	53	C2	7E+05	2E+06	11.1	3.8	1.3	0.92	5.4	0.15	1.41	4.0	0.17	5.2	26.8	4.2	0.00		0.00	0.34	9.7	0.10	0.0		0.0	0.0		0.0	6.7	0
5	115	8.chn	45	7.5	53	A2	7E+05	2E+06	9.1	4.1	1.1	1.09	4.6	0.15	1.09	4.6	0.15	0.0		4.1	0.00		0.00	0.54	6.7	0.11	0.0		0.0	0.0		0.0	6.3	0
5	115	13.chn	45	7.5	53	B2	7E+05	2E+06	9.6	4.1	1.2	1.01	4.8	0.15	1.08	4.8	0.16	0.0		4.1	0.00		0.00	0.37	9.0	0.10	0.0		0.0	0.0		0.0	5.7	0
5	115	57.chn	45	7.5	53	D2	7E+05	2E+06	11.2	3.7	1.2	1.19	4.5	0.16	1.33	4.4	0.18	0.0		4.1	0.00		0.00	0.50	7.3	0.11	0.0		0.0	0.0		0.0	7.5	0
5	115	20.txt	1093	1	12.6	W3	7E+05	2E+06	8.5	4.0	1.0	2.76	2.2	0.18	1.28	3.7	0.14	2.9	33.2	2.9	0.00		0.00	0.44	7.4	0.10	0.0		0.0	0.0		0.0	6.6	0
5	115	9.chn	45	7.5	53	A3	7E+05	2E+06	9.7	4.0	1.2	1.11	4.5	0.15	1.22	4.3	0.16	0.0		4.1	0.00		0.00	0.36	9.1	0.10	0.0		0.0	0.0		0.0	6.4	0
5	115	43.chn	45	7.5	53	B3	7E+05	2E+06	10.9	3.8	1.2	0.95	5.2	0.15	1.12	4.6	0.15	0.0		4.1	0.00		0.00	0.16	17.1	0.08	0.0		0.0	0.0		0.0	6.2	0
5	115	23.chn	45	7.5	53	C3	7E+05	2E+06	13.5	3.4	1.4	1.04	5.1	0.16	1.53	4.0	0.18	0.0		4.1	0.00		0.00	0.24	13.6	0.10	0.0		0.0	0.0		0.0	8.3	0
5	115	56.chn	45	7.5	53	D3	7E+05	2E+06	12.5	3.6	1.4	1.24	4.6	0.17	1.62	3.8	0.18	6.5	34.0	6.6	0.00		0.00	0.40	9.2	0.11	0.0		0.0	0.0		0.0	8.8	0
5	115	61.chn	45	1	2.6	P3	7E+05	2E+06	10.4	3.6	1.1	0.79	9.6	0.23	1.23	6.6	0.24	363.0	0.7	7.6	6.68	2.2	0.44	0.00		0.00	0.0		0.0	0.0		0.0	18.8	0
5	115	19.txt	1093	1	12.6	W4	7E+05	2E+06	12.3	3.3	1.2	3.47	1.9	0.20	1.57	3.4	0.16	0.0		0.0	0.00		0.00	0.34	9.1	0.09	0.0		0.0	0.0		0.0	8.7	0
5	115	62.chn	45	1	2.6	P4	7E+05	2E+06	11.0	3.4	1.1	0.82	5.6	0.14	1.10	4.6	0.15	3.5	29.6	3.1	0.15	29.3	0.13	0.17	15.7	0.08	0.0		0.0	0.0		0.0	4.3	0
5	115	63.chn	45	7.5	19.4	P4A	7E+05	2E+06	13.9	3.2	1.3	1.16	5.0	0.17	1.38	4.3	0.18	0.0		4.1	0.00		0.00	0.17	20.0	0.10	0.0		0.0	0.0		0.0	5.1	0
5	115	10.chn	45	7.5	53	A4	7E+05	2E+06	6.6	4.9	1.0	1.00	4.8	0.14	1.01	4.9	0.15	0.0		4.1	0.00		0.00	0.38	8.4	0.10	0.0		0.0	0.0		0.0	5.2	0
5	115	44.chn	45	7.5	53	B4	7E+05	2E+06	8.0	4.5	1.1	1.02	4.9	0.15	1.01	5.0	0.15	0.0		4.1	0.00		0.00	0.14	19.8	0.08	0.0		0.0	0.0		0.0	5.4	0
5	115	24.chn	45	7.5	53	C4	7E+05	2E+06	13.5	3.4	1.4	1.12	4.8	0.16	1.58	3.7	0.18	0.0		4.1	0.00		0.00	0.21	14.6	0.09	0.0		0.0	0.0		0.0	8.6	0
5	115	55.chn	45	7.5	53	D4	7E+05	2E+06	13.5	3.3	1.3	1.12	4.6	0.15	1.66	3.5	0.17	0.0		4.1	0.28	20.8	0.17	0.44	8.0	0.11	0.0		0.0	0.0		0.0	9.0	0
5	115	18.txt	1093	1	12.6	W5	7E+05	2E+06	11.8	3.3	1.2	0.94	4.3	0.12	1.20	3.7	0.13	0.0		0.0	0.00		0.00	0.00		0.00	0.0		0.0	0.0		0.0	6.8	0
5	115	11.chn	45	7.5	53	A5	7E+05	2E+06	7.8	4.5	1.1	1.00	4.7	0.14	0.94	5.2	0.15	0.0		4.1	0.00		0.00	0.13	19.8	0.07	0.0		0.0	0.0		0.0	5.6	0
5	115	45.chn	45	7.5	53	B5	7E+05	2E+06	11.4	3.7	1.3	1.07	4.9	0.16	1.34	4.2	0.17	0.0		4.1	0.00		0.00	0.14	20.2	0.09	0.0		0.0	0.0		0.0	6.5	0
5	115	40.chn	45	7.5	53	C5	7E+05	2E+06	14.7	3.2	1.4	1.12	4.9	0.16	1.35	4.3	0.17	0.0		4.1	0.19	28.1	0.16	0.14	20.3	0.09	0.0		0.0	0.0		0.0	7.8	0
5	115	54.chn	45	7.5	53	D5	7E+05	2E+06	12.6	3.4	1.3	1.02	5.0	0.15	1.37	4.1	0.17	0.0		4.1	0.15	32.5	0.15	0.32	9.7	0.09	0.0		0.0	0.0		0.0	8.2	0
5	115	27.chn	45	7.5	53	A6	7E+05	2E+06	9.0	4.1	1.1	1.01	4.8	0.15	1.04	4.9	0.15	0.0		4.1	0.00		0.00	0.10	23.7	0.07	0.0		0.0	0.0		0.0	5.5	0
5	115	46.chn	45	7.5	53	B6	7E+05	2E+06	9.1	4.1	1.1	0.96	5.0	0.14	1.06	4.8	0.15	0.0		4.1	0.00		0.00	0.23	12.1	0.08	0.0		0.0	0.0		0.0	6.0	0
5	115	39.chn	45	7.5	53	C6	7E+05	2E+06	12.2	3.6	1.3	0.95	5.2	0.15	1.32	4.2	0.17	0.0		4.1	0.00		0.00	0.16	17.5	0.08	0.0		0.0	0.0		0.0	7.3	0
5	115	53.chn	45	7.5	53	D6	7E+05	2E+06	12.9	3.5	1.4	1.00	5.0	0.15	1.40	4.1	0.17	0.0		4.1	0.00		0.00	0.13	21.9	0.08	0.0		0.0	0.0		0.0	7.5	0
5	115	17.txt	1093	1	12.6	W6	7E+05	2E+06	12.6	3.2	1.2	1.05	4.2	0.13	1.28	3.5	0.13	0.0		0.0	0.00		0.00	0.11	21.0	0.07	0.0		0.0	0.0		0.0	4.8	0
5	115	16.txt	1093	1	12.6	W7	7E+05	2E+06	13.4	3.0	1.2	0.99	4.3	0.13	1.29	3.5	0.14	0.0		0.0	0.12	28.2	0.10	0.09	24.8	0.07	0.0		0.0	0.0		0.0	4.8	0
5	115	28.chn	45	7.5	53	A7	7E+05	2E+06	10.1	3.9	1.2	1.10	4.5	0.15	0.95	5.4	0.15	0.0		4.1	0.00		0.00	0.11	20.1	0.07	0.0		0.0	0.0		0.0	6.2	0
5	115	47.chn	45	7.5	53	B7	7E+05	2E+06	10.8	3.8	1.2	0.97	5.0	0.15	1.15	4.7	0.16	9.7	28.1	8.2	0.17	29.7	0.15	0.10	27.4	0.08	0.0		0.0	0.0		0.0	6.7	0
5	115	38.chn	45	7.5	53	C7	7E+05	2E+06	12.3	3.5	1.3	0.99	5.1	0.15	1.17	4.6	0.16	0.0		4.1	0.00		0.00	0.11	24.0	0.08	0.0		0.0	0.0		0.0	6.3	0
5	115	52.chn	45	7.5	53	D7	7E+05	2E+06	13.4	3.4	1.4	1.04	5.1	0.16	1.26	4.4	0.17	0.0		4.1	0.00		0.00	0.18	16.2	0.09	0.0		0.0	0.0		0.0	7.4	0
5	115	29.chn	45	7.5	53	A8	7E+05	2E+06	11.4	3.7	1.3	1.06	4.8	0.15	1.03	5.0	0.15	0.0		4.1	0.15	30.1	0.14	0.00		0.00	0.0		0.0	0.0		0.0	6.2	0
5	115	31.chn	45	7.5	53	B8	7E+05	2E+06	11.3	3.7	1.3	0.88	5.4	0.14	1.00	5.2	0.16	11.1	19.1	6.4	0.20	27.5	0.16	0.10	27.9	0.08	0.0		0.0	0.0		0.0	5.8	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5	133.4	119.chn	1A66F	6.5	44	F08	7E+05	2E+06	13.1	0.5	0.2	0.89	1.0	0.03	1.74	0.5	0.03	2.6	8.0	0.6	0.10	7.0	0.02	0.32	1.0	0.01	0.0		0.0	0.0		0.0	9.0	0
5		23.CHN	30687	1	12.4	G8	7E+05	2E+06	9.0	1.0	0.3	0.97	1.0	0.03	1.36	1.0	0.04	2.7	9.0	0.7	0.10	11.0	0.03	0.42	2.0	0.03	0.0		0.0	0.0		0.0	7.1	0
5		145.chn	1A66F	6.5	44	G08	7E+05	2E+06	11.8	0.5	0.2	1.23	1.0	0.04	1.68	0.5	0.03	1.7	12.0	0.6	0.08	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	9.0	0
5		9.CHN	40293	1	12.4	C9	7E+05	2E+06	8.5	1.0	0.3	0.96	1.0	0.03	1.01	1.0	0.03	1.7	14.0	0.7	0.06	13.0	0.03	0.25	3.0	0.02	0.0		0.0	0.0		0.0	6.2	0
5		177.chn	1A66F	6.5	44	C09	7E+05	2E+06	7.8	1.0	0.2	0.67	1.0	0.02	0.72	1.0	0.02	1.6	9.0	0.4	0.07	9.0	0.02	0.18	2.0	0.01	0.0		0.0	0.0		0.0	5.2	0
5		16.CHN	40227	1	12.4	D9	7E+05	2E+06	10.4	1.0	0.3	0.93	1.0	0.03	1.22	1.0	0.04	1.5	28.0	1.2	0.02	23.0	0.01	0.20	3.0	0.02	0.0		0.0	0.0		0.0	7.0	0
5		198.chn	1A62F6F	6.5	44	D09	7E+05	2E+06	9.4	1.0	0.3	0.74	1.0	0.02	1.06	1.0	0.03	2.3	9.0	0.6	0.08	9.0	0.02	0.24	2.0	0.01	0.0		0.0	0.0		0.0	6.0	0
5		24.CHN	40227	1	12.4	E9	7E+05	2E+06	10.4	1.0	0.3	1.10	1.0	0.03	1.54	1.0	0.05	3.0	9.0	0.8	0.11	11.0	0.03	0.48	2.0	0.03	0.0		0.0	0.0		0.0	8.2	0
5		114.chn	1A66F	6.5	44	E09	7E+05	2E+06	9.4	0.5	0.1	0.73	1.0	0.02	1.14	1.0	0.03	3.4	6.0	0.6	0.12	6.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	9.8	0
5		22.CHN	40293	1	12.4	F9	7E+05	2E+06	10.1	1.0	0.3	1.08	1.0	0.03	1.54	1.0	0.05	2.4	15.0	1.1	0.08	12.0	0.03	0.31	2.0	0.02	0.0		0.0	0.0		0.0	8.0	0
5	133.4	118.chn	1A66F	6.5	44	F09	7E+05	2E+06	9.9	0.5	0.1	0.79	1.0	0.02	1.38	1.0	0.04	2.8	7.0	0.6	0.12	1.0	0.00	0.34	1.0	0.01	0.0		0.0	0.0		0.0	7.3	0
5		22.CHN	30687	1	12.4	G9	7E+05	2E+06	8.6	1.0	0.3	0.93	1.0	0.03	1.22	1.0	0.04	1.8	19.0	1.0	0.04	17.0	0.02	0.32	2.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5		146.chn	1A66F	6.5	44	G09	7E+05	2E+06	9.7	0.5	0.1	1.12	1.0	0.03	1.44	1.0	0.04	2.3	9.0	0.6	0.06	8.0	0.01	0.37	1.0	0.01	0.0		0.0	0.0		0.0	7.7	0
5		11.chn	40227	1	12.4	C10	7E+05	2E+06	8.0	1.0	0.2	0.85	1.0	0.03	1.21	1.0	0.04	1.7	19.0	1.0	0.07	14.0	0.03	0.51	2.0	0.03	0.0		0.0	0.0		0.0	6.4	0
5		176.chn	1A66F	6.5	44	C10	7E+05	2E+06	8.9	1.0	0.3	1.00	1.0	0.03	1.10	1.0	0.03	1.6	12.0	0.6	0.05	9.0	0.01	0.43	1.0	0.01	0.0		0.0	0.0		0.0	6.7	0
5	133.1	28.chn	1a66f	6.5	44	B1	7E+05	2E+06	10.5	0.0	0.0	1.23	1.0	0.04	1.15	1.0	0.03	1.8	8.0	0.4	0.04	9.0	0.01	0.39	1.0	0.01	0.0		0.0	0.0		0.0	9.6	0
5		26.CHN	40227	1	12.4	D10	7E+05	2E+06	14.6	1.0	0.4	1.33	1.0	0.04	1.64	1.0	0.05	2.6	16.0	1.2	0.04	15.0	0.02	0.34	2.0	0.02	0.0		0.0	0.0		0.0	9.7	0
5	133.1	197.chn	1A66F	6.5	44	D10	7E+05	2E+06	10.8	0.5	0.2	0.77	1.0	0.02	1.21	1.0	0.04	2.0	10.0	0.6	0.07	8.0	0.02	0.28	1.0	0.01	0.0		0.0	0.0		0.0	6.9	0
5	133.1	39.chn	40227	1	12.4	A1	7E+05	2E+06	8.0	1.0	0.2	0.83	1.0	0.02	1.23	1.0	0.04	1.4	21.0	0.9	0.07	13.0	0.03	0.46	2.0	0.03	0.0		0.0	0.0		0.0	6.2	0
5	133.1	46.chn	40227	1	12.4	B1	7E+05	2E+06	7.0	1.0	0.2	0.73	1.0	0.02	0.99	1.0	0.03	1.9	11.0	0.6	0.08	12.0	0.03	0.48	2.0	0.03	0.0		0.0	0.0		0.0	5.5	0
5	133.1	41.chn	40227	1	12.4	C1	7E+05	2E+06	9.9	1.0	0.3	1.58	1.0	0.05	1.12	1.0	0.03	2.1	12.0	0.7	0.01	16.0	0.00	0.48	2.0	0.03	0.0		0.0	0.0		0.0	7.7	0
5		23.CHN	40227	1	12.4	E10	7E+05	2E+06	11.1	1.0	0.3	1.22	1.0	0.04	1.69	1.0	0.05	3.3	12.0	1.2	0.09	12.0	0.03	0.38	2.0	0.02	0.0		0.0	0.0		0.0	9.2	0
5		110.chn	1A66F	6.5	44	E10	7E+05	2E+06	11.7	0.5	0.2	0.94	1.0	0.03	1.62	0.5	0.02	3.9	5.0	0.6	0.14	5.0	0.02	0.31	1.0	0.01	0.0		0.0	0.0		0.0	8.5	0
5		16.CHN	30699	1	12.4	F10	7E+05	2E+06	9.4	1.0	0.3	1.20	1.0	0.04	1.49	1.0	0.04	21.7	1.0	0.7	0.38	4.0	0.05	0.48	2.0	0.03	0.0		0.0	0.0		0.0	8.6	0
5		117.chn	1A66F	6.5	44	F10	7E+05	2E+06	10.0	0.5	0.2	0.80	1.0	0.02	1.54	1.0	0.05	18.8	1.0	0.6	0.36	3.0	0.03	0.41	1.0	0.01	0.0		0.0	0.0		0.0	8.0	0
5	133.1	38.chn	40227	1	12.4	A2	7E+05	2E+06	7.9	1.0	0.2	0.92	1.0	0.03	1.15	1.0	0.03	1.4	22.0	0.9	0.06	13.0	0.02	0.59	1.0	0.02	0.0		0.0	0.0		0.0	6.2	0
5	133.1	38.chn	30687	1	12.4	B2	7E+05	2E+06	11.2	1.0	0.3	1.31	1.0	0.04	1.41	1.0	0.04	1.6	16.0	0.8	0.03	16.0	0.01	0.34	2.0	0.02	0.0		0.0	0.0		0.0	8.2	0
5	133.1	40.chn	40227	1	12.4	C2	7E+05	2E+06	10.4	1.0	0.3	1.44	1.0	0.04	1.16	1.0	0.03	1.5	21.0	0.9	0.00	17.0	0.00	0.23	3.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5	133.1	37.chn	40227	1	12.4	A3	7E+05	2E+06	8.1	1.0	0.2	0.98	1.0	0.03	1.17	1.0	0.04	1.5	24.0	1.1	0.05	13.0	0.02	0.34	2.0	0.02	0.0		0.0	0.0		0.0	6.2	0
5	133.1	42.chn	40293	1	12.4	B3	7E+05	2E+06	12.4	1.0	0.4	0.89	1.0	0.03	1.30	1.0	0.04	2.0	22.0	1.3	0.05	16.0	0.02	0.36	2.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5	133.1	45.chn	30687	1	12.4	C3	7E+05	2E+06	10.3	1.0	0.3	1.16	1.0	0.03	1.12	1.0	0.03	1.9	22.0	1.3	0.03	16.0	0.01	0.24	3.0	0.02	0.0		0.0	0.0		0.0	7.1	0
5	133.1	45.chn	40227	1	12.4	C3	7E+05	2E+06	9.5	1.0	0.3	0.82	1.0	0.02	1.06	1.0	0.03	1.4	16.0	0.7	0.07	13.0	0.03	0.22	3.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5	133.1	49.chn	40277	1	12.4	C3	7E+05	2E+06	11.0	1.0	0.3	1.21	1.0	0.04	1.23	1.0	0.04	2.2	12.0	0.8	0.05	15.0	0.02	0.25	3.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5	133.1	36.chn	40227	1	12.4	A4	7E+05	2E+06	9.8	1.0	0.3	0.94	1.0	0.03	1.24	1.0	0.04	1.7	21.0	1.1	0.05	14.0	0.02	0.35	2.0	0.02	0.0		0.0	0.0		0.0	6.7	0
5	133.1	43.chn	30687	1	12.4	B4	7E+05	2E+06	12.7	1.0	0.4	0.88	1.0	0.03	1.32	1.0	0.04	1.8	18.0	1.0	0.07	13.0	0.03	0.29	2.0	0.02	0.0		0.0	0.0		0.0	7.4	0
5	133.1	39.chn	30699	1	12.4	C4	7E+05	2E+06	10.1	1.0	0.3	0.95	1.0	0.03	1.20	1.0	0.04	2.2	13.0	0.8	0.07	14.0	0.03	0.33	2.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5	133.1	42.chn	30687	1	12.4	A5	7E+05	2E+06	11.2	1.0	0.3	1.13	2.0	0.07	1.29	1.0	0.04	2.9	14.0	1.2	0.06	18.0	0.03	0.44	3.0	0.04	0.0		0.0	0.0		0.0	7.4	0
5	133.1	48.chn	40227	1	12.4	A5	7E+05	2E+06	12.4	1.0	0.4	1.24	1.0	0.04	1.43	1.0	0.04	2.1	17.0	1.1	0.05	13.0	0.02	0.48	2.0	0.03	0.0		0.0	0.0		0.0	8.4	0
5	133.1	44.chn	40227	1	12.4	B5	7E+05	2E+06	11.6	1.0	0.3	1.17	1.0	0.04	1.20	1.0	0.04	1.6	14.0	0.7	0.03	16.0	0.01	0.19	3.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5	133.1	40.chn	40293	1	12.4	C5	7E+05	2E+06	7.7	1.0	0.2	0.98	1.0	0.03	0.85	2.0	0.05	2.9	23.0	2.0	0.01	25.0	0.01	0.22	3.0	0.02	0.0		0.0	0.0		0.0	6.4	0
5	133.1	40chn	30687	1	12.4	A6	7E+05	2E+06	12.1	1.0	0.4	1.29	1.0	0.04	1.24	1.0	0.04	1.7	15.0	0.8	0.03	16.0	0.01	0.62	1.0	0.02	0.0		0.0	0.0		0.0	8.0	0
5	133.1	41.chn	30687	1	12.4	B6	7E+05	2E+06	12.4	1.0	0.4	1.19	1.0	0.04	1.30	1.0	0.04	2.3	11.0	0.7	0.03	16.0	0.02	0.29	2.0	0.02	0.0		0.0	0.0		0.0	8.0	0
5	133.1	39.chn	40293	1	12.4	C6	7E+05	2E+06	10.8	1.0	0.3	1.24	1.0	0.04	1.29	1.0	0.04	1.9	14.0	0.8	0.02	19.0	0.01	0.38	2.0	0.02	0.0		0.0	0.0		0.0	7.9	0
5		10.chn	40227	1	12.4	C11	7E+05	2E+06	8.4	1.0	0.3	0.84	1.0	0.03	1.25	1.0	0.04	2.5	9.0	0.7	0.07	13.0	0.03	0.56	2.0	0.03	0.0		0.0	0.0		0.0	6.6	0
5		175.chn	1A66F	6.5	44	C11	7E+05	2E+06	8.2	1.0	0.2	1.00	1.0	0.03	1.05	1.0	0.03	1.4	13.0	0.6	0.08	7.0	0.02	0.43	1.0	0.01	0.0		0.0	0.0		0.0	6.3	0
5		14.CHN	40293	1	12.4	D11	7E+05	2E+06	9.5	1.0	0.3	1.18	1.0	0.04	1.23	1.0	0.04	1.9	13.0	0.7	0.05	14.0	0.02	0.22	3.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5	133.1	113.chn	1A66F	6.5	44	D11	7E+05	2E+06	9.2	1.0	0.3	0.70	1.0	0.02	1.02	1.0	0.03	1.5	13.0	0.6	0.07	9.0	0.02	0.27	1.0	0.01	0.0		0.0	0.0		0.0	6.1	0
5	133.1	42.chn	40227	1	12.4	A7	7E+05	2E+06	9.7	1.0	0.3	1.16	1.0	0.03	1.15	1.0	0.03	2.0	11.0	0.7	0.04	11.0	0.01	0.57	1.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5	133.1	43.chn	40227	1	12.4	B7	7E+05	2E+06	10.1	1.0	0.3	1.49	1.0	0.04	1.19	1.0	0.04	1.4	27.0	1.2	0.02	14.0	0.01	0.37	2.0	0.02	0.0		0.0	0.0		0.0	7.8	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	[illegible] pCi/g	% Error	MDA pCi/g	[illegible] pCi/g	% Error	MDA pCi/g	[illegible] pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5	133.1	38.chn	40293	1	12.4	B7	7E+05	2E+06	11.2	1.0	0.3	1.82	1.0	0.05	1.30	1.0	0.04	2.3	11.0	0.7	0.04	11.0	0.01	0.66	1.0	0.02	0.0		0.0	0.0		0.0	8.7	0
5	133.1	37.chn	30699	1	12.4	C7	7E+05	2E+06	12.8	1.0	0.4	1.52	1.0	0.05	1.65	1.0	0.05	2.1	19.0	1.2	0.04	14.0	0.02	0.34	2.0	0.02	0.0		0.0	0.0		0.0	9.7	0
5		22.CHN	40227	1	12.4	E11	7E+05	2E+06	15.9	1.0	0.5	1.40	1.0	0.04	2.23	1.0	0.07	3.9	8.0	0.9	0.16	9.0	0.04	0.45	2.0	0.03	0.0		0.0	0.0		0.0	11.9	0
5	133.3	108.chn	1A66F	6.5	44	E11	7E+05	2E+06	13.5	0.5	0.2	1.02	1.0	0.03	1.84	0.5	0.03	3.7	6.0	0.7	0.16	5.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	9.6	0
5		21.CHN	40293	1	12.4	F11	7E+05	2E+06	8.2	1.0	0.2	1.04	1.0	0.03	1.26	1.0	0.04	3.2	8.0	0.8	0.07	13.0	0.03	0.43	2.0	0.03	0.0		0.0	0.0		0.0	7.1	0
5	133.3	109.chn	1A66F	6.5	44	F11	7E+05	2E+06	9.4	0.5	0.1	0.84	1.0	0.03	1.36	1.0	0.04	2.8	7.0	0.6	0.11	6.0	0.02	0.38	1.0	0.01	0.0		0.0	0.0		0.0	7.1	0
5		21.CHN	30687	1	12.4	G11	7E+05	2E+06	11.8	1.0	0.4	1.07	1.0	0.03	1.87	1.0	0.06	2.9	9.0	0.8	0.08	13.0	0.03	0.33	2.0	0.02	0.0		0.0	0.0		0.0	9.2	0
5		105.chn	1A66F	6.5	44	G11	7E+05	2E+06	10.9	0.5	0.2	0.86	1.0	0.03	1.51	1.0	0.05	1.9	11.0	0.6	0.09	7.0	0.02	0.33	1.0	0.01	0.0		0.0	0.0		0.0	7.8	0
5		4.chn	40293	1	12.4	B12	7E+05	2E+06	13.5	1.0	0.4	0.88	1.0	0.03	1.01	1.0	0.03			0.0	0.06	14.0	0.02	0.15	4.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5		169.chn	1A66F	6.5	44	B12	7E+05	2E+06	12.0	0.1	0.0	1.16	1.0	0.03	0.91	1.0	0.03	1.4	14.0	0.6	0.06	7.0	0.01	0.15	2.0	0.01	0.0		0.0	0.0		0.0	6.8	0
5		4.CHN	30687	1	12.4	C12	7E+05	2E+06	6.9	1.0	0.2	0.71	1.0	0.02	1.01	1.0	0.03	1.4	16.0	0.7	0.06	14.0	0.03	0.36	2.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5		9.CHN	30699	1	12.4	C12	7E+05	2E+06	7.3	1.0	0.2	1.08	1.0	0.03	1.07	1.0	0.03	1.4	23.0	1.0	0.02	17.0	0.01	0.33	2.0	0.02	0.0		0.0	0.0		0.0	6.1	0
5		170.chn	1A66F	6.5	44	C12	7E+05	2E+06	7.6	1.0	0.2	0.87	1.0	0.03	0.97	1.0	0.03	1.2	14.0	0.5	0.07	7.0	0.02	0.30	1.0	0.01	0.0		0.0	0.0		0.0	5.7	0
5		10.CHN	30699	1	12.4	D12	7E+05	2E+06	9.9	1.0	0.3	1.07	1.0	0.03	1.05	1.0	0.03	1.2	20.0	0.7	0.02	19.0	0.01	0.24	3.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5	133.1	235.chn	1A66F	6.5	44	D12	7E+05	2E+06	9.4	1.0	0.3	0.75	1.0	0.02	1.00	1.0	0.03	1.6	13.0	0.6	0.06	10.0	0.02	0.28	2.0	0.02	0.0		0.0	0.0		0.0	7.8	0
5		21.CHN	40227	1	12.4	E12	7E+05	2E+06	15.3	1.0	0.5	1.30	1.0	0.04	2.25	1.0	0.07	3.7	12.0	1.3	0.11	11.0	0.04	0.54	2.0	0.03	0.0		0.0	0.0		0.0	11.6	0
5	133.3	102.chn	1A66F	6.5	44	E12	7E+05	2E+06	12.7	0.5	0.2	0.91	1.0	0.03	1.75	0.5	0.03	3.5	6.0	0.6	0.15	5.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.9	0
5		20.CHN	40293	1	12.4	F12	7E+05	2E+06	10.9	1.0	0.3	1.06	1.0	0.03	1.50	1.0	0.05	2.8	9.0	0.8	1.50	13.0	0.59	0.41	2.0	0.02	0.0		0.0	0.0		0.0	8.2	0
5	133.3	103.chn	1A66F	6.5	44	F12	7E+05	2E+06	10.8	0.5	0.2	0.84	1.0	0.03	1.43	1.0	0.04	2.8	7.0	0.6	0.12	6.0	0.02	0.37	1.0	0.01	0.0		0.0	0.0		0.0	7.5	0
5		15.CHN	30699	1	12.4	G12	7E+05	2E+06	13.8	1.0	0.4	1.27	1.0	0.04	2.10	1.0	0.06	2.4	16.0	1.1	0.08	12.0	0.03	0.43	2.0	0.0[illegible]	0.0		0.0	0.0		0.0	10.5	0
5		104.chn	1A66F	6.5	44	G12	7E+05	2E+06	12.6	0.5	0.2	0.99	1.0	0.03	1.82	0.5	0.03	2.2	10.0	0.7	0.09	7.0	0.02	0.37	1.0	0.01	.0		0.0	0.0		0.0	9.3	0
5		4.chn	40227	1	12.4	B13	7E+05	2E+06	9.7	1.0	0.3	0.91	1.0	0.03	1.28	1.0	0.04	2.4	14.0	1.0	0.09	11.0	0.03	0.62	2.0	0.04	0.0		0.0	0.0		0.0	6.9	0
5		167.chn	1A66F	6.5	44	B13	7E+05	2E+06	8.5	1.0	0.3	0.80	1.0	0.02	1.03	1.0	0.03	1.5	9.0	0.4	0.06	9.0	0.02	0.37	1.0	0.01	0.0		0.0	0.0		0.0	7.3	0
5		2.CHN	30699	1	12.4	C13	7E+05	2E+06	9.4	1.0	0.3	0.87	1.0	0.03	1.39	1.0	0.04	2.3	14.0	1.0	0.08	12.0	0.03	0.81	1.0	0.02	0.0		0.0	0.0		0.0	7.2	0
5		183.chn	1A66F	6.5	44	C13	7E+05	2E+06	8.3	1.0	0.2	0.87	1.0	0.03	1.18	1.0	0.04	1.6	11.0	0.5	0.06	8.0	0.02	0.60	1.0	0.02	0.0		0.0	0.0		0.0	6.5	0
5		15.CHN	40227	1	12.4	D13	7E+05	2E+06	6.5	1.0	0.2	1.48	1.0	0.04	1.14	1.0	0.03	1.8	13.0	0.7	0.03	13.0	0.01	0.68	1.0	0.02	0.0		0.0	0.0		0.0	7.0	0
5		184.chn	1A66F	6.5	44	D13	7E+05	2E+06	6.4	1.0	0.2	0.74	1.0	0.02	0.90	1.0	0.03	1.5	11.0	0.5	0.06	9.0	0.02	0.47	1.0	0.01	0.0		0.0	0.0		0.0	5.3	0
5		20.CHN	40227	1	12.4	E13	7E+05	2E+06	8.9	1.0	0.3	1.04	1.0	0.03	1.36	1.0	0.04	2.1	19.0	1.2	0.07	13.0	0.03	0.38	2.0	0.02	0.0		0.0	0.0		0.0	7.3	0
5	133.3	96.chn	1A66F	6.5	44	E13	7E+05	2E+06	9.6	0.5	0.1	0.81	1.0	0.02	1.31	1.0	0.04	1.9	10.0	0.6	0.09	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	6.9	0
5	133.3	97.chn	1A66F	6.5	44	F13	7E+05	2E+06	15.1	0.5	0.2	1.19	1.0	0.04	2.32	0.5	0.03	3.6	7.0	0.7	0.16	5.0	0.02	0.53	1.0	0.02	0.0		0.0	0.0		0.0	11.3	0
5		19.CHN	40293	1	12.4	F13	7E+05	2E+06	12.9	1.0	0.4	1.33	1.0	0.04	2.13	1.0	0.06	3.8	11.0	1.2	0.11	10.0	0.03	0.50	2.0	0.03	0.0		0.0	0.0		0.0	10.9	0
5		14.CHN	30699	1	12.4	G13	7E+05	2E+06	15.9	1.0	0.5	1.45	1.0	0.04	2.29	1.0	0.07	4.0	7.0	0.8	0.15	8.0	0.04	0.52	2.0	0.03	0.0		0.0	0.0		0.0	11.7	0
5		31.CHN	40293	1	12.4	G13	7E+05	2E+06	14.9	1.0	0.4	1.39	1.0	0.04	2.21	1.0	0.07	3.5	12.0	1.3	0.14	9.0	0.04	0.48	2.0	0.03	0.0		0.0	0.0		0.0	11.3	0
5		98.chn	1A66F	6.5	44	G13	7E+05	2E+06	15.1	0.5	0.2	1.12	1.0	0.03	2.13	0.5	0.03	3.6	7.0	0.8	0.17	5.0	0.02	0.49	1.0	0.01	0.0		0.0	0.0		0.0	10.8	0
5		20.CHN	30687	1	12.4	H13	7E+05	2E+06	13.1	1.0	0.4	1.07	1.0	0.03	1.80	1.0	0.05	2.6	10.0	0.8	0.11	10.0	0.03	0.54	2.0	0.03	0.0		0.0	0.0		0.0	9.3	0
5		27.CHN	30699	1	12.4	H13	7E+05	2E+06	13.3	1.0	0.4	1.13	1.0	0.03	1.90	1.0	0.06	2.5	8.0	0.6	0.07	11.0	0.02	0.59	1.0	0.02	0.0		0.0	0.0		0.0	9.7	0
5		93.chn	1A66F	6.5	44	H13	7E+05	2E+06	11.4	0.5	0.2	0.79	1.0	0.02	1.51	1.0	0.05	1.9	11.0	0.6	0.12	6.0	0.02	0.43	1.0	0.01	0.0		0.0	0.0		0.0	7.8	0
5		3.chn	40293	1	12.4	B14	7E+05	2E+06	10.0	1.0	0.3	0.78	1.0	0.02	1.36	1.0	0.04	2.1	12.0	0.7	0.06	15.0	0.03	0.48	2.0	0.03	0.0		0.0	0.0		0.0	6.9	0
5		168.chn	1A66F	6.5	44	B14	7E+05	2E+06	9.0	0.5	0.1	0.99	1.0	0.03	0.96	1.0	0.03	1.2	16.0	0.6	0.06	8.0	0.01	0.32	1.0	0.01	0.0		0.0	0.0		0.0	6.1	0
5		57.chn	1A66F	6.5	44	B14	7E+05	2E+06	8.2	1.0	0.2	0.78	1.0	0.02	0.96	1.0	0.03	1.2	15.0	0.6	0.04	11.0	0.01	0.35	1.0	0.01	0.0		0.0	0.0		0.0	7.0	0
5		14.CHN	40227	1	12.4	C14	7E+05	2E+06	6.2	1.0	0.2	1.77	1.0	0.05	1.13	1.0	0.03	1.3	25.0	1.0	0.00	15.0	0.00	0.94	1.0	0.03	0.0		0.0	0.0		0.0	7.4	0
5		162.chn	1A66F	6.5	44	C14	7E+05	2E+06	6.0	1.0	0.2	0.74	1.0	0.02	0.94	1.0	0.03	1.4	12.0	0.5	0.04	10.0	0.01	0.63	1.0	0.02	0.0		0.0	0.0		0.0	5.4	0
5		30.CHN	40227	1	12.4	D14	7E+05	2E+06	6.9	1.0	0.2	1.27	1.0	0.04	1.04	1.0	0.03	1.4	23.0	1.0	0.03	15.0	0.01	0.62	1.0	0.02	0.0		0.0	0.0		0.0	6.5	0
5		214.chn	1A66F	6.5	44	D14	7E+05	2E+06	9.0	0.5	0.1	0.73	1.0	0.02	1.17	1.0	0.04	1.7	11.0	0.6	0.07	8.0	0.02	0.46	1.0	0.01	0.0		0.0	0.0		0.0	6.4	0
5		19.CHN	40227	1	12.4	E14	7E+05	2E+06	10.3	1.0	0.3	1.27	1.0	0.04	1.30	1.0	0.04	2.4	15.0	1.1	0.05	14.0	0.02	0.39	2.0	0.02	0.0		0.0	0.0		0.0	7.9	0
5		90.chn	1A66F	6.5	44	E14	7E+05	2E+06	11.1	0.5	0.2	0.83	1.0	0.02	1.39	1.0	0.04	1.9	10.0	0.6	0.08	8.0	0.02	0.43	1.0	0.01	0.0		0.0	0.0		0.0	7.5	0
5		18.CHN	40293	1	12.4	F14	7E+05	2E+06	9.9	1.0	0.3	1.67	1.0	0.05	1.51	1.0	0.05	2.5	10.0	0.7	0.04	12.0	0.02	0.42	2.0	0.02	0.0		0.0	0.0		0.0	9.0	0
5		91.chn	1A66F	6.5	44	F14	7E+05	2E+06	10.2	0.5	0.2	0.83	1.0	0.02	1.47	1.0	0.04	2.1	9.0	0.6	0.09	8.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	7.5	0
5		13.CHN	30699	1	12.4	G14	7E+05	2E+06	10.7	1.0	0.3	1.57	1.0	0.05	1.65	1.0	0.05	2.1	17.0	1.1	0.02	15.0	0.01	0.44	2.0	0.03	0.0		0.0	0.0		0.0	9.3	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
2		128.chn	45	7.5	53	B12	7E+05	2E+06	7.4	4.6	1.0	1.03	4.7	0.15	1.17	4.3	0.15	0.0		4.1	0.00		0.00	0.60	6.2	0.11	1.3	21.8	0.9	0.0		0.0	5.7	0
2		137.chn	45	7.5	53	C12	7E+05	2E+06	8.7	4.3	1.1	1.03	4.7	0.15	1.27	4.1	0.16	0.0		4.1	0.00		0.00	0.68	5.7	0.12	2.6	11.4	0.9	0.0		0.0	6.2	0
2		142.chn	45	7.5	53	D12	7E+05	2E+06	7.8	4.5	1.0	1.11	4.5	0.15	1.23	4.2	0.15	0.0		4.1	0.00		0.00	0.69	5.6	0.12	2.9	10.5	0.9	0.0		0.0	6.3	0
2		160.chn	45	7.5	53	E12	7E+05	2E+06	7.8	4.4	1.0	0.81	5.7	0.14	1.09	4.6	0.15	0.0		4.1	0.00		0.00	0.66	5.7	0.11	4.6	6.7	0.9	0.0		0.0	5.9	0
2		163.chn	45	7.5	53	F12	7E+05	2E+06	11.5	3.7	1.3	1.02	4.8	0.15	1.33	4.1	0.16	4.4	30.8	4.0	0.15	31.5	0.14	0.33	10.2	0.10	0.9	31.7	0.9	0.0		0.0	6.5	0
2		193.chn	45	7.5	53	G12	7E+05	2E+06	11.3	3.7	1.3	0.79	6.1	0.14	1.26	4.3	0.16	0.0		4.1	0.00		0.00	0.30	10.1	0.09	3.0	10.7	1.0	0.0		0.0	6.4	0
2		200.chn	45	7.5	53	H12	7E+05	2E+06	12.3	3.6	1.3	1.04	5.1	0.16	1.70	3.6	0.18	0.0		4.1	0.00		0.00	0.58	7.0	0.12	5.9	6.0	1.1	0.0		0.0	8.5	0
2		238.chn	45	7.5	53	I12	7E+05	2E+06	11.4	3.7	1.3	1.06	4.9	0.16	1.44	4.0	0.17	4.9	29.2	4.3	0.19	27.9	0.16	0.54	6.8	0.11	3.5	9.5	1.0	0.0		0.0	7.4	0
2		243.chn	45	7.5	53	J12	7E+05	2E+06	10.8	3.9	1.3	1.08	4.9	0.16	1.36	4.1	0.17	0.0		4.1	0.00		0.00	0.62	6.3	0.12	2.4	13.7	1.0	0.0		0.0	7.2	0
2		273.chn	45	7.5	53	K12	7E+05	2E+06	10.9	3.8	1.2	0.96	5.3	0.15	1.58	3.8	0.18			4.1	0.16	33.2	0.16	0.69	5.9	0.12	2.5	12.9	1.0	0.0		0.0	8.0	0
2		278.chn	45	7.5	53	L12	7E+05	2E+06	10.9	3.8	1.2	1.12	4.6	0.15	1.48	3.9	0.17	0.0		4.1	0.00		0.00	0.30	11.2	0.10	0.6	55.0	0.9	0.0		0.0	7.2	0
2		310.chn	45	7.5	53	M12	7E+05	2E+06	11.0	3.7	1.2	1.17	4.5	0.16	1.38	4.1	0.17	0.0		4.1	0.00		0.00	0.13	21.1	0.08	0.0		0.0	0.0		0.0	7.5	0
2		121.chn	45	7.5	53	A13	7E+05	2E+06	8.7	4.2	1.1	0.86	5.3	0.14	1.15	4.5	0.16	0.0		4.1	0.00		0.00	0.63	5.9	0.11	2.2	13.4	0.9	0.0		0.0	5.4	0
2		127.chn	45	7.5	53	B13	7E+05	2E+06	9.1	4.1	1.1	1.08	4.4	0.14	1.21	4.3	0.16	0.0		4.1	0.00		0.00	0.60	6.2	0.11	1.6	18.4	0.9	0.0		0.0	6.3	0
2		138.chn	45	7.5	53	C13	7E+05	2E+06	9.8	4.0	1.2	1.05	4.6	0.14	1.07	4.7	0.15	0.0		4.1	0.00		0.00	0.29	10.2	0.09	0.9	31.1	0.8	0.0		0.0	5.9	0
2		141.chn	45	7.5	53	D13	7E+05	2E+06	9.0	4.2	1.1	0.98	4.9	0.14	0.96	5.0	0.14	0.0		4.1	0.00		0.00	0.26	11.8	0.09	1.2	23.9	0.9	0.0		0.0	5.6	0
2		161.chn	45	7.5	53	E13	7E+05	2E+06	9.5	4.1	1.2	0.84	5.5	0.14	1.19	4.3	0.15	0.0		4.1	0.00		0.00	0.24	12.0	0.09	1.2	23.5	0.9	0.0		0.0	5.7	0
2		172.chn	45	7.5	53	F13	7E+05	2E+06	13.7	3.4	1.4	1.08	4.9	0.16	1.30	4.4	0.17	0.0		4.1	0.22	23.3	0.15	0.17	16.1	0.08	1.1	27.5	0.9	0.0		0.0	7.6	0
2		194.chn	45	7.5	53	G13	7E+05	2E+06	11.6	3.6	1.3	0.94	5.3	0.15	1.24	4.4	0.16	0.0		4.1	0.00		0.00	0.49	7.2	0.11	3.8	8.5	1.0	0.0		0.0	6.8	0
2		197.chn	45	7.5	53	H13	7E+05	2E+06	12.9	3.4	1.3	1.05	5.0	0.16	1.50	4.0	0.18	0.0		4.1	0.19	28.0	0.16	0.53	7.0	0.11	3.6	9.3	1.0	0.0		0.0	7.8	0
2		239.chn	45	7.5	53	I13	7E+05	2E+06	11.3	3.7	1.3	1.06	5.0	0.16	1.42	4.1	0.17	0.0		4.1	0.00		0.00	0.52	7.2	0.11	2.3	14.5	1.0	0.0		0.0	7.5	0
2		242.chn	45	7.5	53	J13	7E+05	2E+06	11.3	3.7	1.3	0.95	5.5	0.16	1.48	3.9	0.17	0.0		4.1	0.00		0.00	0.56	6.8	0.11	1.9	16.9	1.0	0.0		0.0	7.3	0
2		274.chn	45	7.5	53	K13	7E+05	2E+06	13.5	3.4	1.4	1.04	5.1	0.16	1.85	3.4	0.19	0.0		4.1	0.00		0.00	0.53	7.3	0.12	2.1	15.6	1.0	0.0		0.0	8.8	0
2		277.chn	45	7.5	53	L13	7E+05	2E+06	12.1	3.6	1.3	1.02	5.1	0.16	1.45	4.0	0.17	5.1	27.7	4.3	0.00		0.00	0.32	10.5	0.10	1.2	25.8	0.9	0.0		0.0	7.8	0
2		311.chn	45	7.5	53	M13	7E+05	2E+06	12.4	3.5	1.3	1.22	4.4	0.16	1.41	4.1	0.17	5.2	27.9	4.3	0.00		0.00	0.13	21.7	0.08	0.0		0.0	0.0		0.0	7.3	0
2		122.chn	45	7.5	53	A14	7E+05	2E+06	11.6	3.6	1.3	0.85	5.5	0.14	1.13	4.5	0.15	0.0		4.1	0.00		0.00	0.43	8.0	0.10	0.9	32.0	0.8	0.0		0.0	6.8	0
2		126.chn	45	7.5	53	B14	7E+05	2E+06	10.6	3.8	1.2	0.99	4.9	0.15	1.28	4.2	0.16	0.0		4.1	0.00		0.00	0.43	7.9	0.10	0.8	35.0	0.8	0.0		0.0	6.6	0
2		139.chn	45	7.5	53	C14	7E+05	2E+06	9.6	4.1	1.2	0.98	5.0	0.15	1.16	4.4	0.15	0.0		4.1	0.00		0.00	0.33	9.2	0.09	1.2	23.5	0.8	0.0		0.0	5.9	0
2		140.chn	45	7.5	53	D14	7E+05	2E+06	9.1	4.1	1.1	0.93	5.0	0.14	1.06	4.7	0.15	0.0		4.1	0.00		0.00	0.27	11.3	0.09	0.8	34.0	0.8	0.0		0.0	6.0	0
2		162.chn	45	7.5	53	E14	7E+05	2E+06	12.4	3.6	1.3	0.95	5.2	0.15	1.28	4.1	0.16	0.0		4.1	0.00		0.00	0.19	15.7	0.09	0.0		0.0	0.0		0.0	7.1	0
2		173.chn	45	7.5	53	F14	7E+05	2E+06	13.4	3.4	1.4	1.11	4.6	0.15	1.23	4.5	0.17	0.0		4.1	0.00		0.00	0.21	14.3	0.09	0.8	36.0	0.9	0.0		0.0	7.2	0
2		195.chn	45	7.5	53	G14	7E+05	2E+06	13.2	3.5	1.4	1.06	5.0	0.16	1.57	3.8	0.18	0.0		4.1	0.16	33.0	0.16	0.37	9.6	0.11	2.2	14.8	1.0	0.0		0.0	8.4	0
2		196.chn	45	7.5	53	H14	7E+05	2E+06	13.1	3.4	1.3	1.17	4.6	0.16	1.61	3.8	0.18	0.0		4.1	0.00		0.00	0.45	8.3	0.11	2.5	13.3	1.0	0.0		0.0	8.7	0
2		240.chn	45	7.5	53	I14	7E+05	2E+06	10.4	3.9	1.2	1.05	4.9	0.15	1.33	4.2	0.17	0.0		4.1	0.00		0.00	0.38	8.9	0.10	1.3	24.1	0.9	0.0		0.0	7.1	0
2		241.chn	45	7.5	53	J14	7E+05	2E+06	8.5	4.4	1.1	0.85	5.7	0.14	1.08	4.9	0.16	0.0		4.1	0.00		0.00	0.32	10.5	0.10	0.0		0.0	0.0		0.0	5.2	0
2		275.chn	45	7.5	53	K14	7E+05	2E+06	10.6	3.9	1.2	0.90	5.4	0.15	1.31	4.2	0.17	0.0		4.1	0.00		0.00	0.36	8.8	0.10	0.9	34.0	0.9	0.0		0.0	6.8	0
2		276.chn	45	7.5	53	L14	7E+05	2E+06	11.8	3.6	1.3	0.99	5.1	0.15	1.58	3.7	0.18	0.0		4.1	0.00		0.00	0.50	7.3	0.11	1.6	19.4	0.9	0.0		0.0	7.6	0
2		312.chn	45	7.5	53	M14	7E+05	2E+06	14.5	3.3	1.4	1.05	5.1	0.16	1.45	4.0	0.17	0.0		4.1	0.00		0.00	0.10	29.5	0.09	0.0		0.0	0.0		0.0	8.7	0
5		28.CHN	40227	1	12.4	E1	7E+05	2E+06	8.0	1.0	0.2	1.16	1.0	0.03	1.18	1.0	0.04	1.8	19.0	1.0	0.02	18.0	0.01	0.35	2.0	0.02	0.0		0.0	0.0		0.0	6.7	0
5		154.chn	1A66F	6.5	44	E01	7E+05	2E+06	6.5	1.0	0.2	0.76	1.0	0.02	0.89	1.0	0.03	1.0	16.0	0.5	0.05	9.0	0.01	0.25	1.0	0.01	0.0		0.0	0.0		0.0	5.2	0
5		23.CHN	30699	1	12.4	F1	7E+05	2E+06	15.3	1.0	0.5	1.52	1.0	0.05	2.69	1.0	0.08	2.2	22.0	1.5	0.07	12.0	0.02	0.49	2.0	0.03	0.0		0.0	0.0		0.0	12.9	0
5		137.chn	1A66F	6.5	44	F01	7E+05	2E+06	13.3	0.5	0.2	1.14	1.0	0.03	2.26	0.5	0.03	2.1	11.0	0.7	0.11	7.0	0.02	0.38	1.0	0.01	0.0		0.0	0.0		0.0	10.7	0
5		15.CHN	40279	1	12.4	G1	7E+05	2E+06	14.6	1.0	0.4	1.45	1.0	0.04	2.00	1.0	0.06	2.2	16.0	1.0	0.06	11.0	0.02	0.34	2.0	0.02	0.0		0.0	0.0		0.0	10.7	0
5		138.chn	1A66F	6.5	44	G01	7E+05	2E+06	12.1	0.5	0.2	0.90	1.0	0.03	1.69	0.5	0.03	2.0	10.0	0.6	0.10	7.0	0.02	0.36	1.0	0.01	0.0		0.0	0.0		0.0	8.6	0
5		29.CHN	40227	1	12.4	E2	7E+05	2E+06	15.6	1.0	0.5	1.15	1.0	0.03	2.00	1.0	0.06	1.7	24.0	1.2	0.12	10.0	0.04	0.52	2.0	0.03	0.0		0.0	0.0		0.0	10.5	0
5		205.chn	1A66F	6.5	44	E02	7E+05	2E+06	6.3	1.0	0.2	0.71	1.0	0.02	0.97	1.0	0.03	1.4	12.0	0.5	0.06	9.0	0.02	0.42	1.0	0.01	0.0		0.0	0.0		0.0	5.3	0
5		27.CHN	30687	1	12.4	F2	7E+05	2E+06	13.8	1.0	0.4	1.41	1.0	0.04	2.23	1.0	0.07	2.7	15.0	1.2	0.07	13.0	0.03	0.36	2.0	0.02	0.0		0.0	0.0		0.0	11.3	0
5		136.chn	1A66F	6.5	44	F02	7E+05	2E+06	13.0	0.5	0.2	1.08	1.0	0.03	2.02	0.5	0.03	2.0	11.0	0.7	0.09	7.0	0.02	0.37	1.0	0.01	0.0		0.0	0.0		0.0	10.0	0
5		27.CHN	40293	1	12.4	G2	7E+05	2E+06	13.0	1.0	0.4	1.40	1.0	0.04	2.24	1.0	0.07	2.4	16.0	1.2	0.11	10.0	0.03	0.42	2.0	0.03	0.0		0.0	0.0		0.0	11.1	0

OU	IHSS Number	File Name	Detector Array	Detector Height (m)	FOV m	Station	North feet	East feet	K-40 pCi/g	% Error	MDA pCi/g	Ra-226 pCi/g	% Error	MDA pCi/g	Th-232 pCi/g	% Error	MDA pCi/g	U-238 pCi/g	% Error	MDA pCi/g	U-235 pCi/g	% Error	MDA pCi/g	Cs-137 pCi/g	% Error	MDA pCi/g	Am-241 pCi/g	% Error	MDA pCi/g	Pu-239 nCi/g	% Error	MDA nCi/g	Exposure uR/h	% FOV Blocked
5		139.chn	1A66F	6.5	44	G02	7E+05	2E+06	12.9	0.5	0.2	0.99	1.0	0.03	2.00	0.5	0.03	1.8	12.0	0.6	0.12	6.0	0.02	0.38	1.0	0.01	0.2	27.0	0.1	0.0		0.0	9.8	0
5		236.chn	1A66F	6.5	44	G02	7E+05	2E+06	12.9	0.5	0.2	1.05	1.0	0.03	2.02	0.5	0.03	2.1	10.0	0.6	0.09	7.0	0.02	0.37	1.0	0.01	0.0		0.0	0.0		0.0	10.0	0
5		32.CHN	40293	1	12.4	D3	7E+05	2E+06	6.4	1.0	0.2	1.61	1.0	0.05	0.84	1.0	0.03	1.7	14.0	0.7	0.01	17.0	0.00	0.39	2.0	0.02	0.0		0.0	0.0		0.0	7.0	0
5		22.CHN	30699	1	12.4	E3	7E+05	2E+06	6.5	1.0	0.2	1.09	1.0	0.03	0.90	1.0	0.03	0.0		0.0	0.01	20.0	0.01	0.27	2.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5		206.chn	1A66F	6.5	44	E03	7E+05	2E+06	6.0	1.0	0.2	0.70	1.0	0.02	0.93	1.0	0.03	1.2	14.0	0.5	0.07	8.0	0.02	0.51	1.0	0.02	0.0		0.0	0.0		0.0	5.3	0
5		24.CHN	30699	1	12.4	F3	7E+05	2E+06	12.3	1.0	0.4	1.03	1.0	0.03	1.98	1.0	0.06	2.4	15.0	1.1	0.15	9.0	0.04	0.43	2.0	0.03	0.0		0.0	0.0		0.0	9.4	0
5		132.chn	1A66F	6.5	44	F03	7E+05	2E+06	13.0	0.5	0.2	0.98	1.0	0.03	2.00	0.5	0.03	1.6	13.0	0.6	0.12	6.0	0.02	0.41	1.0	0.01	0.0		0.0	0.0		0.0	9.6	0
5		190.chn	1A62F6F	6.5	44	D03	7E+05	2E+06	7.7	1.0	0.2	0.93	1.0	0.03	0.79	1.0	0.02	1.5	9.0	0.4	0.05	10.0	0.01	0.29	1.0	0.01	0.0		0.0	0.0		0.0	5.4	0
5		16.CHN	40279	1	12.4	G3	7E+05	2E+06	9.0	1.0	0.3	0.81	2.0	0.05	1.35	1.0	0.04	1.8	22.0	1.2	0.03	21.0	0.02	0.33	2.0	0.02	0.0		0.0	0.0		0.0	8.5	0
5		143.chn	1A66F	6.5	44	G03	7E+05	2E+06	10.6	0.5	0.2	1.20	1.0	0.04	1.76	0.5	0.03	1.8	12.0	0.6	0.09	7.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.9	0
5		35.CHN	40227	1	12.4	D4	7E+05	2E+06	7.0	1.0	0.2	1.19	1.0	0.04	0.98	1.0	0.03	1.6	21.0	1.0	0.02	18.0	0.01	0.41	2.0	0.02	0.0		0.0	0.0		0.0	6.2	0
5		26.CHN	30687	1	12.4	E4	7E+05	2E+06	11.6	1.0	0.3	1.29	1.0	0.04	1.15	1.0	0.03	1.7	15.0	0.8	0.04	14.0	0.02	0.14	4.0	0.02	0.0		0.0	0.0		0.0	7.5	0
5		151.chn	1A66F	6.5	44	E04	7E+05	2E+06	10.8	0.5	0.2	0.88	1.0	0.03	1.05	1.0	0.03	1.1	18.0	0.6	0.04	10.0	0.01	0.20	2.0	0.01	0.0		0.0	0.0		0.0	6.7	0
5		28.CHN	30687	1	12.4	F4	7E+05	2E+06	13.5	1.0	0.4	1.01	1.0	0.03	1.77	1.0	0.05	1.5	24.0	1.1	0.11	10.0	0.03	0.45	2.0	0.03	0.0		0.0	0.0		0.0	9.2	0
5		133.chn	1A66F	6.5	44	F04	7E+05	2E+06	12.4	0.5	0.2	0.88	1.0	0.03	1.67	0.5	0.03	1.5	14.0	0.6	0.10	7.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	8.6	0
5		192.chn	1A62F6F	6.5	44	D04	7E+05	2E+06	8.3	1.0	0.2	1.00	1.0	0.03	1.00	1.0	0.03	1.2	16.0	0.6	0.06	8.0	0.01	0.38	1.0	0.01	0.0		0.0	0.0		0.0	6.1	0
5		28.CHN	40293	1	12.4	G4	7E+05	2E+06	13.7	1.0	0.4	1.12	1.0	0.03	2.14	1.0	0.06	2.7	15.0	1.2	0.15	9.0	0.04	0.47	2.0	0.03	0.0		0.0	0.0		0.0	10.4	0
5		144.chn	1A66F	6.5	44	G04	7E+05	2E+06	12.3	0.5	0.2	1.31	1.0	0.04	1.89	0.5	0.03	1.8	12.0	0.6	0.07	7.0	0.02	0.38	1.0	0.01	0.0		0.0	0.0		0.0	9.7	0
5		28.CHN	30699	1	12.4	D5	7E+05	2E+06	7.4	1.0	0.2	1.65	1.0	0.05	1.02	1.0	0.03	1.4	14.0	0.6	0.00	13.0	0.00	0.80	1.0	0.02	0.0		0.0	0.0		0.0	7.6	0
5		16.CHN	40293	1	12.4	D5	7E+05	2E+06	6.7	1.0	0.2	0.84	1.0	0.03	0.96	1.0	0.03	1.8	12.0	0.7	3.87	17.0	1.97	0.75	1.0	0.02	0.0		0.0	0.0		0.0	5.6	0
5		207.chn	1A66F	6.5	44	D05	7E+05	2E+06	7.6	1.0	0.2	0.75	1.0	0.02	0.93	1.0	0.03	1.2	14.0	0.5	0.08	7.0	0.02	0.48	1.0	0.01	0.0		0.0	0.0		0.0	5.6	0
5		27.CHN	40227	1	12.4	E5	7E+05	2E+06	12.2	1.0	0.4	1.59	1.0	0.05	1.39	1.0	0.04	1.6	29.0	1.4	0.00	19.0	0.00	0.26	3.0	0.02	0.0		0.0	0.0		0.0	8.9	0
5		152.chn	1A66F	6.5	44	E05	7E+05	2E+06	10.8	0.5	0.2	0.89	1.0	0.03	1.14	1.0	0.03	1.4	14.0	0.6	0.05	9.0	0.01	0.22	2.0	0.01	0.0		0.0	0.0		0.0	6.9	0
5		33.CHN	40293	1	12.4	F5	7E+05	2E+06	15.4	1.0	0.5	1.88	1.0	0.06	2.20	1.0	0.07	0.0		0.0	0.06	12.0	0.02	0.45	2.0	0.03	0.0		0.0	0.0		0.0	12.3	0
5		126.chn	1A66F	6.5	44	F05	7E+05	2E+06	14.2	0.5	0.2	1.00	1.0	0.03	1.92	0.5	0.03	1.9	12.0	0.7	0.10	7.0	0.02	0.40	1.0	0.01	0.0		0.0	0.0		0.0	9.9	0
5		17.CHN	40227	1	12.4	D6	7E+05	2E+06	14.5	1.0	0.4	0.97	1.0	0.03	1.49	1.0	0.04	0.0		0.0	0.08	13.0	0.03	0.44	2.0	0.03	0.0		0.0	0.0		0.0	8.9	0
5		213.chn	1A66F	6.5	44	D06	7E+05	2E+06	11.1	0.5	0.2	0.68	1.0	0.02	1.05	1.0	0.03	1.2	16.0	0.6	0.06	10.0	0.02	0.29	1.0	0.01	0.0		0.0	0.0		0.0	6.5	0
5		29.CHN	30699	1	12.4	E6	7E+05	2E+06	18.4	1.0	0.6	1.70	1.0	0.05	[illegible]	1.0	0.06	2.5	20.0	1.5	0.06	12.0	0.02	0.38	2.0	0.02	0.0		0.0	0.0		0.0	12.1	0
5		124.chn	1A66F	6.5	44	E06	7E+05	2E+06	15.9	0.5	0.2	0.99	1.0	0.03	1.69	0.5	0.03	2.0	11.0	0.6	0.08	8.0	0.02	0.33	1.0	0.01	0.1	46.0	0.1	0.0		0.0	9.6	0
5		219.chn	1A66F	6.5	44	E06	7E+05	2E+06	15.4	0.5	0.2	1.01	1.0	0.03	1.64	0.5	0.02	1.8	13.0	0.7	0.09	7.0	0.02	0.32	1.0	0.01	0.0		0.0	0.0		0.0	9.4	0
5		34.CHN	40227	1	12.4	F6	7E+05	2E+06	23.6	1.0	0.7	1.79	1.0	0.05	1.74	1.0	0.05	2.6	13.0	1.0	0.09	11.0	0.03	0.28	3.0	0.03	0.0		0.0	0.0		0.0	12.4	0
5	133.6	125.chn	1A66F	6.5	44	F06	7E+05	2E+06	18.7	0.5	0.3	1.24	1.0	0.04	1.63	1.0	0.05	2.0	11.0	0.7	0.11	6.0	0.02	0.28	1.0	0.01	0.0		0.0	0.0		0.0	10.5	0
5		12.CHN	30687	1	12.4	C7	7E+05	2E+06	14.3	1.0	0.4	1.00	1.0	0.03	0.96	1.0	0.03	2.0	12.0	0.7	0.04	16.0	0.02	0.14	4.0	0.02	0.0		0.0	0.0		0.0	7.2	0
5		189.chn	1A62F6F	6.5	44	C07	7E+05	2E+06	10.2	1.0	0.3	0.63	1.0	0.02	0.69	1.0	0.02	1.3	12.0	0.5	0.05	12.0	0.02	0.11	3.0	0.01	0.0		0.0	0.0		0.0	5.2	0
5		11.CHN	30699	1	12.4	D7	7E+05	2E+06	6.7	1.0	0.2	0.73	1.0	0.02	1.05	1.0	0.03	1.5	19.0	0.8	0.06	14.0	0.03	0.44	2.0	0.03	0.0		0.0	0.0		0.0	5.4	0
5	133.5	200.chn	1A62F6F	6.5	44	D07	7E+05	2E+06	13.7	0.5	0.2	0.80	1.0	0.02	1.12	1.0	0.03	1.5	17.0	0.8	0.06	11.0	0.02	0.18	2.0	0.01	0.0		0.0	0.0		0.0	7.1	0
5		33.CHN	30687	1	12.4	E7	7E+05	2E+06	16.3	1.0	0.5	1.56	1.0	0.05	2.07	1.0	0.06	2.9	10.0	0.9	0.06	12.0	0.02	0.45	2.0	0.03	0.0		0.0	0.0		0.0	11.6	0
5	-	123.chn	1A66F	6.5	44	E07	7E+05	2E+06	14.8	0.5	0.2	0.92	1.0	0.03	1.55	1.0	0.05	2.1	10.0	0.6	0.10	7.0	0.02	0.28	1.0	0.01	0.0		0.0	0.0		0.0	9.0	0
5		18.CHN	30699	1	12.4	F7	7E+05	2E+06	8.7	1.0	0.3	0.94	1.0	0.03	1.33	1.0	0.04	2.6	9.0	0.7	0.09	11.0	0.03	0.41	2.0	0.02	0.0		0.0	0.0		0.0	6.8	0
5	133.6	120.chn	1A66F	6.5	44	F07	7E+05	2E+06	15.0	0.5	0.2	1.06	1.0	0.03	2.03	0.5	0.03	2.3	10.0	0.7	0.11	7.0	0.02	0.39	1.0	0.01	0.0		0.0	0.0		0.0	10.5	0
5		33.CHN	40227	1	12.4	G7	7E+05	2E+06	13.2	1.0	0.4	1.73	1.0	0.05	2.18	1.0	0.07	3.0	14.0	1.3	0.04	14.0	0.02	0.40	2.0	0.02	0.0		0.0	0.0		0.0	11.3	0
5		212.chn	1A66F	6.5	44	G07	7E+05	2E+06	11.3	0.5	0.2	0.83	1.0	0.03	1.54	1.0	0.05	1.8	11.0	0.6	0.09	7.0	0.02	0.32	1.0	0.01	0.0		0.0	0.0		0.0	8.0	0
5		13.CHN	40293	1	12.4	C8	7E+05	2E+06	12.5	1.0	0.4	1.46	1.0	0.04	1.13	1.0	0.03	2.0	14.0	0.8	0.03	14.0	0.01	0.28	3.0	0.03	0.0		0.0	0.0		0.0	8.1	0
5		178.chn	1A66F	6.5	44	C08	7E+05	2E+06	11.5	0.5	0.2	0.91	1.0	0.03	1.01	1.0	0.03	1.7	12.0	0.6	0.07	8.0	0.02	0.17	2.0	0.01	0.0		0.0	0.0		0.0	6.7	0
5		25.CHN	40227	1	12.4	D8	7E+05	2E+06	20.9	1.0	0.6	0.93	1.0	0.03	0.96	1.0	0.03	1.6	21.0	1.0	0.04	17.0	0.02	0.05	11.0	0.02	0.0		0.0	0.0		0.0	8.2	0
5	133.5	199.chn	1A62F6F	6.5	44	D08	7E+05	2E+06	15.0	0.5	0.2	0.77	1.0	0.02	1.08	1.0	0.03	1.8	12.0	0.6	0.06	10.0	0.02	0.11	3.0	0.01	0.0		0.0	0.0		0.0	7.1	0
5		23.CHN	40293	1	12.4	E8	7E+05	2E+06	9.6	1.0	0.3	1.03	1.0	0.03	1.43	1.0	0.04	2.8	9.0	0.8	0.10	11.0	0.03	0.46	2.0	0.03	0.0		0.0	0.0		0.0	7.6	0
5		218.chn	1A66F	6.5	44	E08	7E+05	2E+06	15.1	0.5	0.2	1.03	1.0	0.03	1.60	1.0	0.05	2.2	10.0	0.7	0.11	7.0	0.02	0.28	1.0	0.01	0.0		0.0	0.0		0.0	9.2	0
5		17.CHN	30699	1	12.4	F8	7E+05	2E+06	15.4	1.0	0.5	1.32	1.0	0.04	2.22	1.0	0.07	7.6	6.0	1.4	0.19	8.0	0.05	0.33	2.0	0.02	0.0		0.0	0.0		0.0	11.2	0

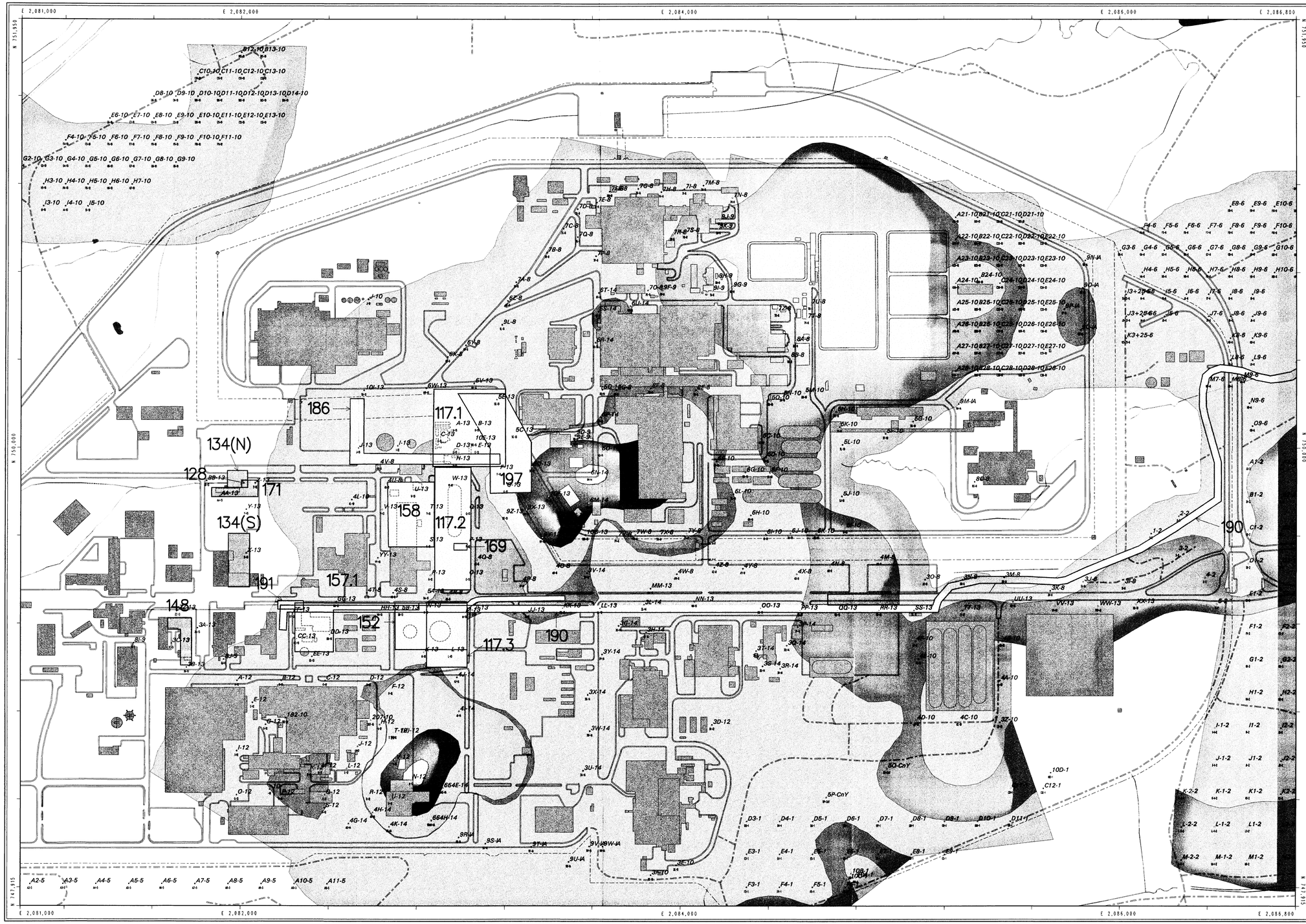


PLATE 1

AMERICIUM SPECIFIC ACTIVITY MAP

EXPLANATION

- OU 13 IHSS
- Buildings or other structures
- Lakes and ponds
- Streams, ditches, or other drainage features
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Fences
- Paved roads
- Dirt roads

HPGe Data Ranges (pCi/g)

- 0.1 - 1
- 1 - 10
- 10 - 100
- 100 - 1000
- 1000 - 10000

Scale = 1 : 2640
1 inch represents 220 feet

20 0 0 400 800ft

State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Roc ky Flats Environmental Technology Site

Prepared by:
EG&G ROCKY FLATS

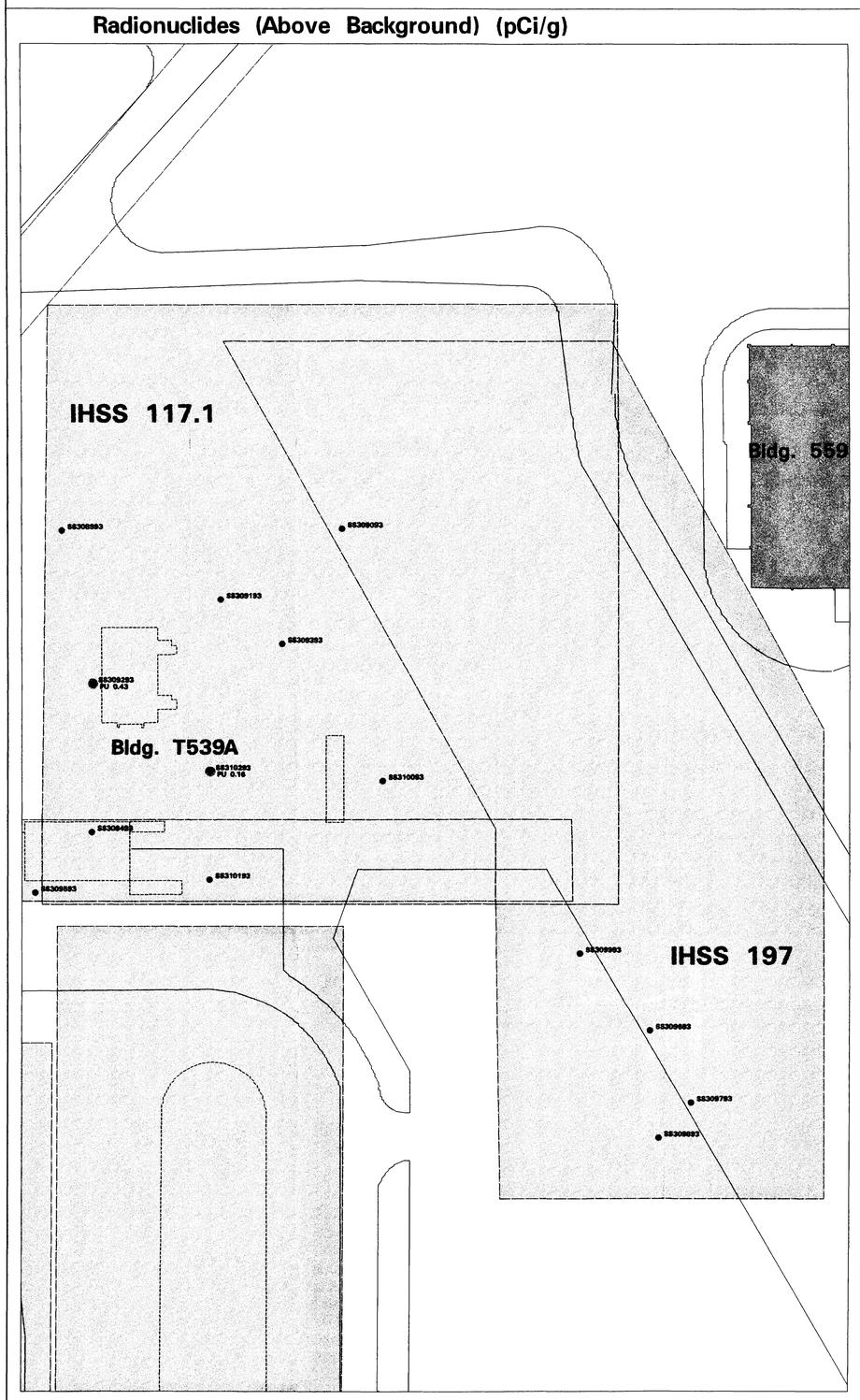
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13

June 09, 1995

/users/vkjera/e521905/projects/ou/ou13/hpge-cn.aml

OU13-A-000313
1 OF 11



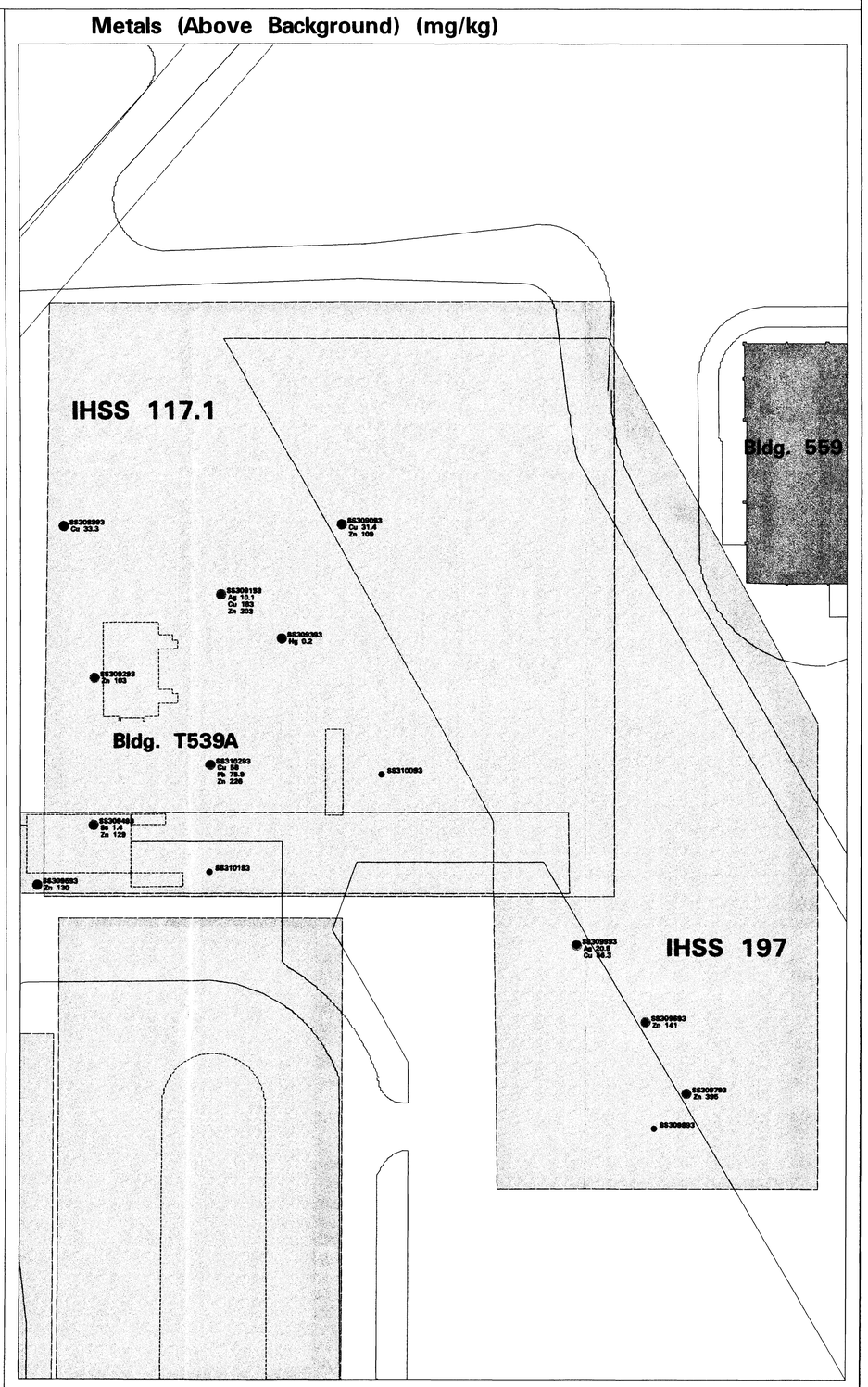


PLATE 2

IHSS Group 117.1, 197

ANALYTICAL RESULTS FOR SURFACE-SOIL SAMPLES

EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above background
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

RMP OK 6/8/95 1100

Radionuclides:

PU = Plutonium-239/240

Metals:

Ag = Silver
Cu = Copper
Hg = Mercury
Pb = Lead
Se = Selenium
Zn = Zinc

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

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Rocky Flats Environmental Technology Site

Prepared by:
EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13

June 06, 1995

/users/vkjera/s521905/projects/iou/ou13/asplates/sog197e_fr.aml

OU13-A-000315

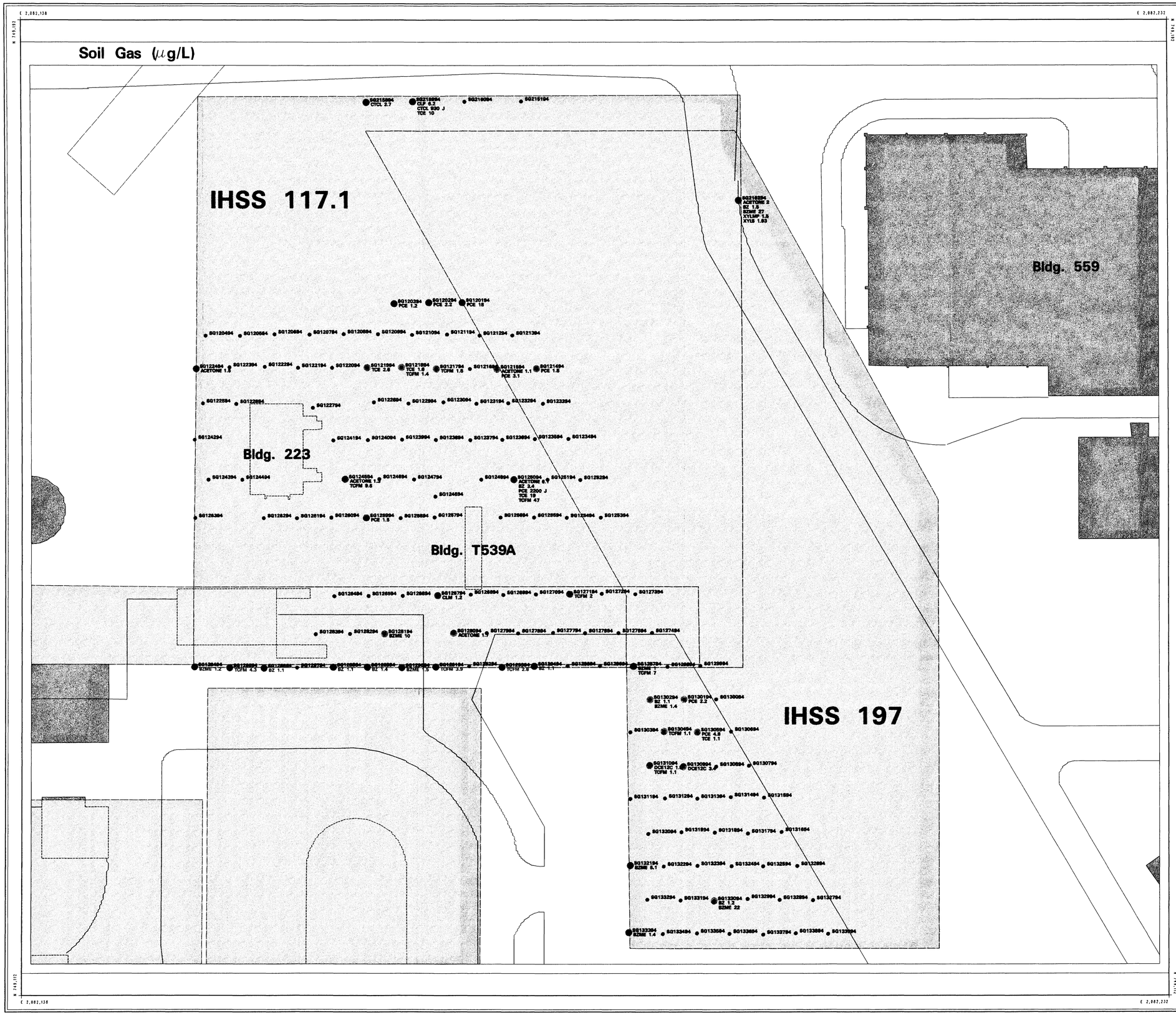

PLATE 3

IHSS Group 117.1, 197

ANALYTICAL RESULTS FOR SOIL-GAS SAMPLES

EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above 1.0 µg/l
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

ACETONE = Acetone
BZ = Benzene
BZME = Toluene
CLF = Chloroform
CLM = Chloromethane
CTCL = Carbon Tetrachloride
DCE12C = cis-1,2-dichloroethene
PCE = Tetracholorethene
TCE = Tricholoroethene
TCFM = Trichlorofloromethane
XYLMP = m & p-Xylenes
XYLS = Total Xylenes

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

N

20 0 40 80ft

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Rocky Flats Environmental Technology Site

Prepared by:

EG&G ROCKY FLATS

EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

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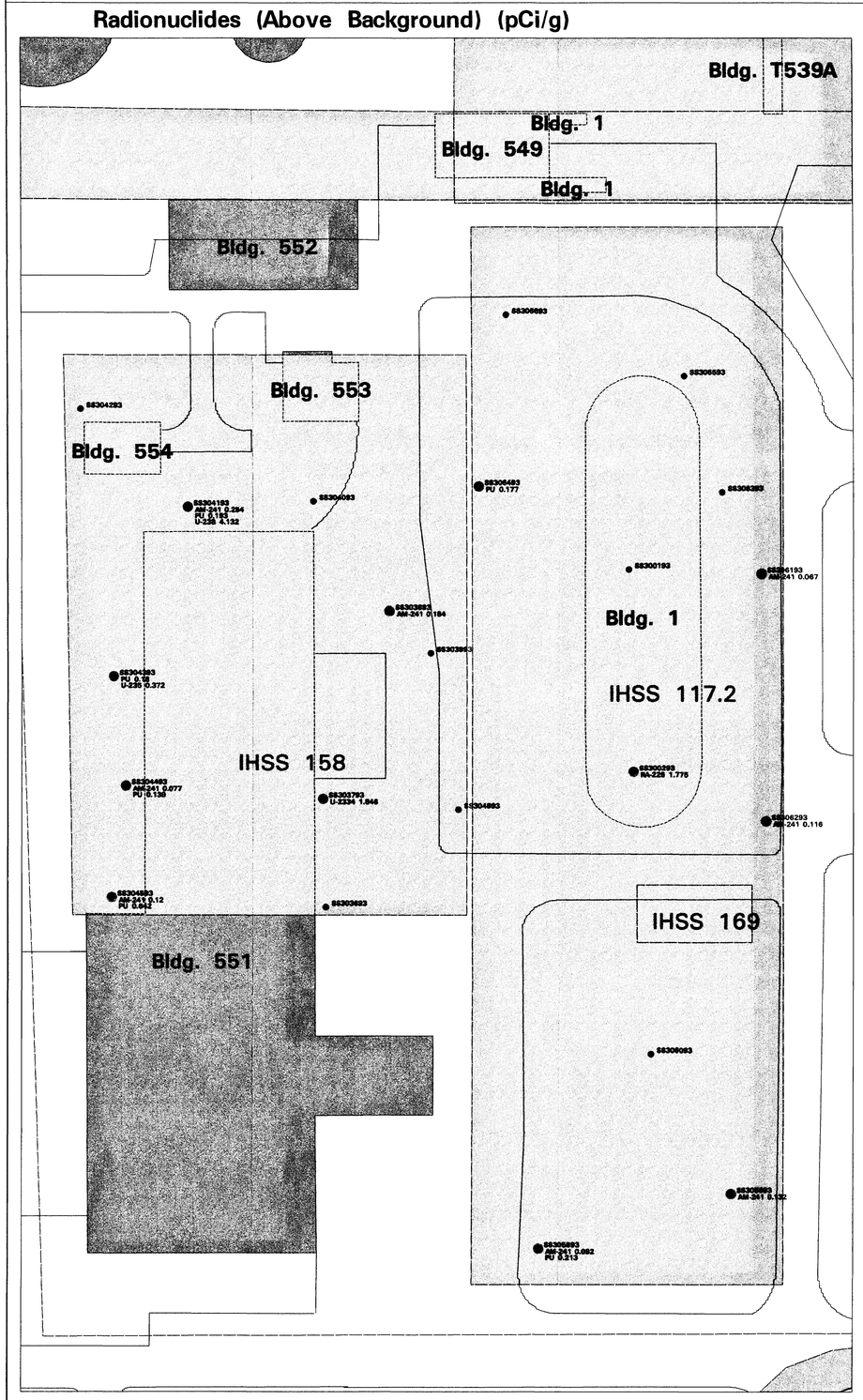
OU13-A-000313



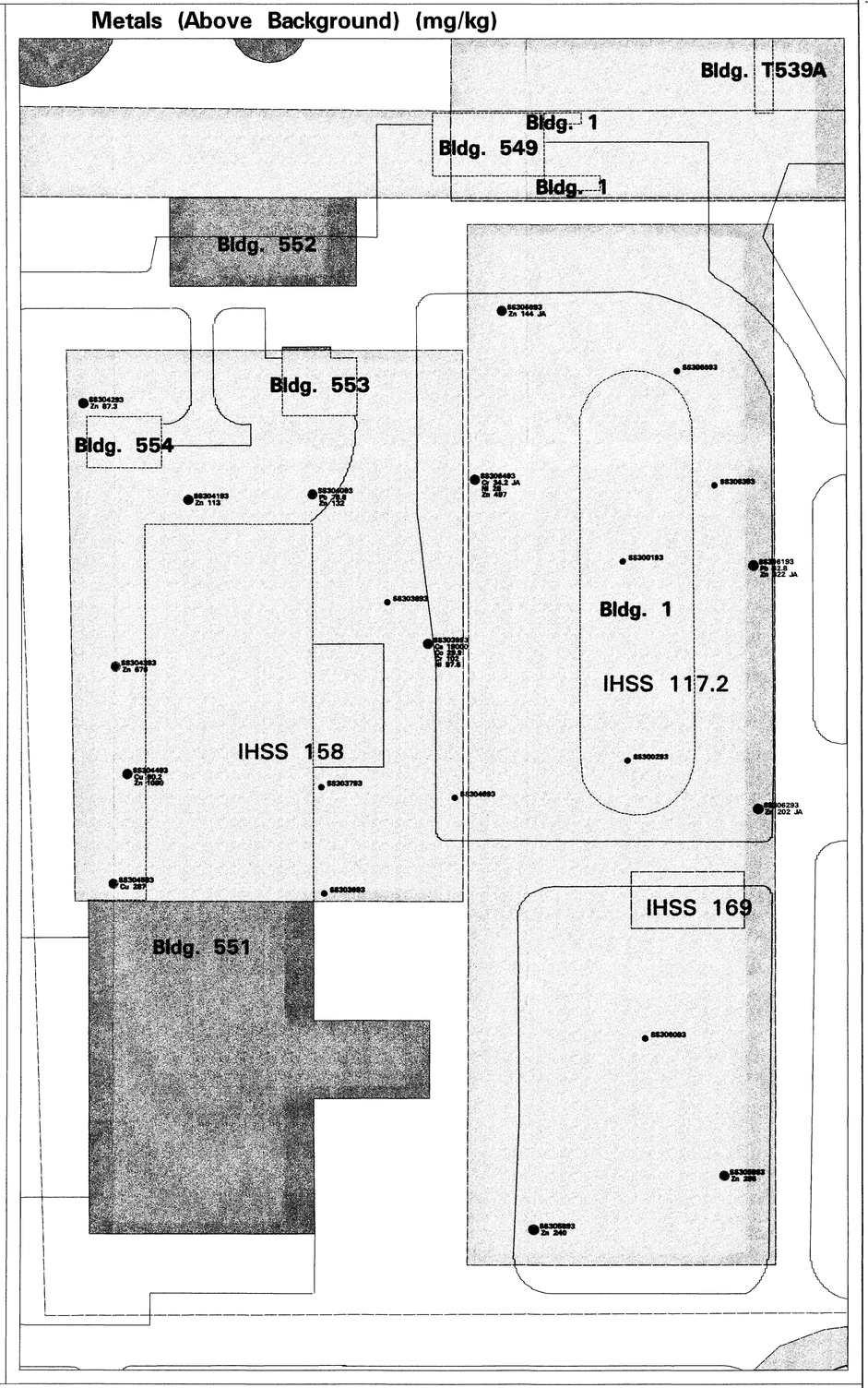


PLATE 4

IHSS Group 117.2, 158, & 169

ANALYTICAL RESULTS FOR SURFACE-SOIL SAMPLES

EXPLANATION

- Sample Location (see notes)
- Analyte elevated above background
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Radionuclides:

AM-241 = Americium-241
PU = Plutonium-239/240
RA-226 = Radium-226
U-233,-234 = Uranium-233,-234
U-235 = Uranium-235
U-238 = Uranium-238

Metals:

Ca = Calcium
Co = Cobalt
Cr = Chromium
Cu = Copper
Ni = Nickel
Pb = Lead
Zn = Zinc

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

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Rocky Flats Environmental Technology Site

Prepared by:

EG&G ROCKY FLATS

EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13

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OU13-A-000313
4 of 1

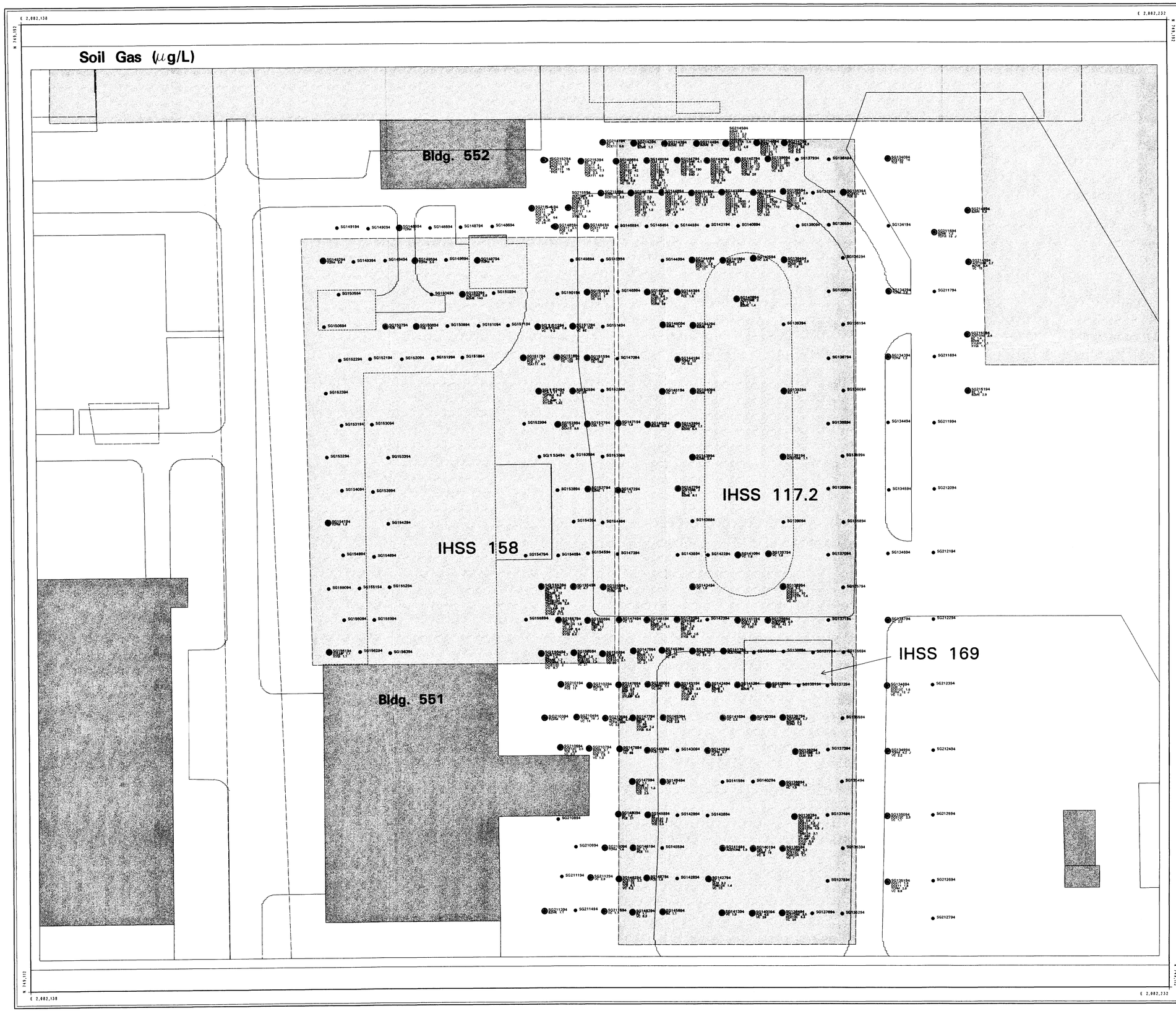

PLATE 5

IHSS Group 117.2, 158, & 169

ANALYTICAL RESULTS FOR SOIL-GAS SAMPLES

EXPLANATION

- Sample Location (see notes)
- Analyte elevated above 1.0 µg/l
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

ACET = ONE = Acetone
BCH4 = Bromomethane
BT2 = 2-Butanone
BZ = Benzene
BZME = Toluene
CBZ = Carbazole
CEA = Chloroethane
CLF = Chloroform
CLM = Chloromethane
CTCL = Carbon Tetrachloride
DCA1 1 = 1,1-Dichloroethene
DCDF M = Dichlorodifluoromethane
DCE1 1 = 1,1-Dichloroethane
DCE1 2C = cis-1,2-Dichloroethene
DCE1 2TR = trans-1,2-Dichloroethene
EBZ = Ethylbenzene
NAP = Napthalene
PBZ = n-Propylbenzene
PCE = Tetrachloroethene
TCA1 11 = 1,1,1-Trichloroethane
TCE = Tricholoroethene
TCFM = Trichloroflorometh ane
TMB1 24 = 1,2,4-Trimethylbenzene
TMBZ 135 = 1,3,5-Trimethylbenzene
VC = Vinyl Chloride
XYLM P = m & p-Xylenes
XYLO = o-Xylenes
XYLS = Total Xylenes

25 0 50 100 ft

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Rock y Flats Environmental Technology Site

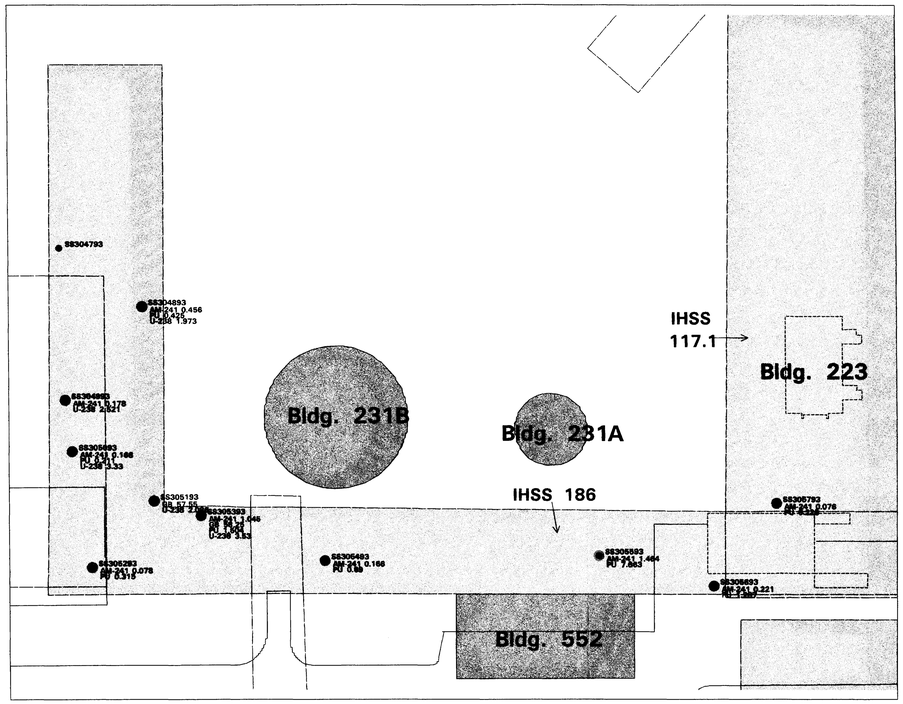
Prepared by:
EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: u-13 June 08, 1995

/users/vkjera/s521905/projects/iou/ou13/asplates/sog158e_fr.aml

OU13:A.000313

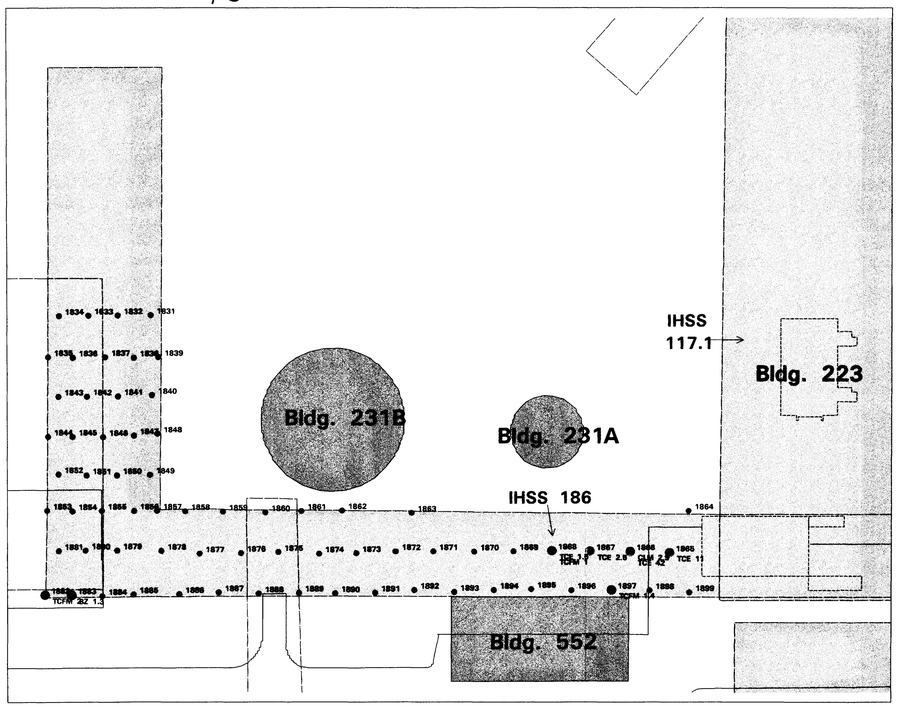
Radionuclides (Above Background) (pCi/g)



Metals (Above Background) (mg/kg)

NO METALS ANALYSIS FOR IHSS 186

Soil Gas (μg/l)



Soil Sample Locations

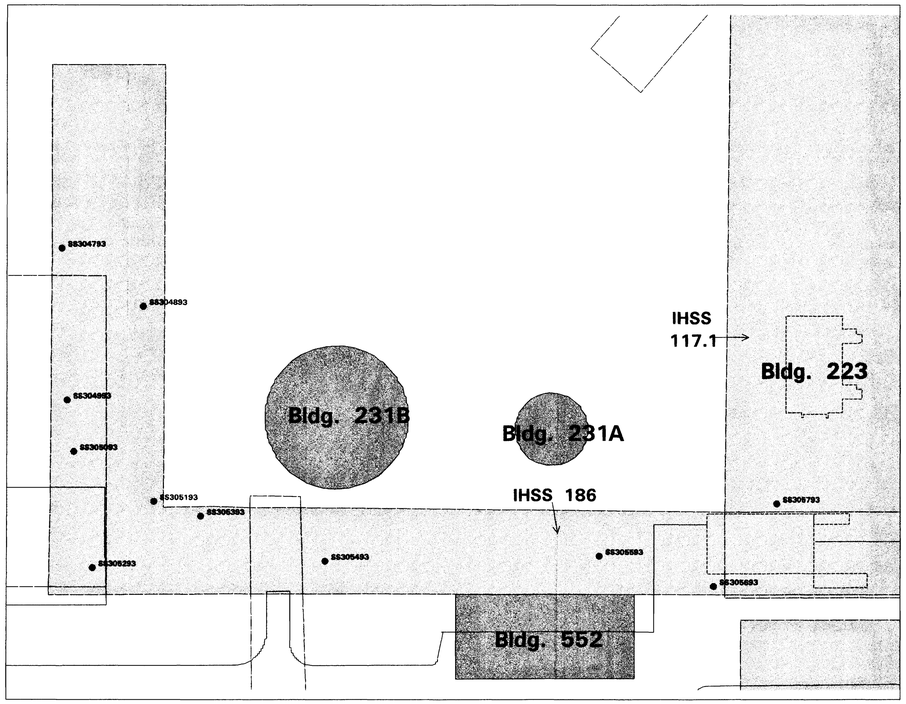


PLATE 6

IHSS 186

ANALYTICAL RESULTS

EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above background (Soil Gas above 1.0 μg/l)
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

BZ = Benzene
CLM = Chloromethane
TCE = Tricholoroethene
TCFM = Trichloroflorometh ane

Radionuclides:

AM-241 = Americium-241
GB = Gross Beta
PU = Plutonium-239/240
U-238 = Uranium-238

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

(3) Soil gas location identifiers are abbreviated for clarity. The actual location identifiers are the numbers that appear on the map plus a prefix of 'SG' and a postfix of '94'. For example, a soil gas sample location is labled 1831 on the map. The actual number is SG183194.

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Rocky Flats Environmental Technology Site

Prepared by:
EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

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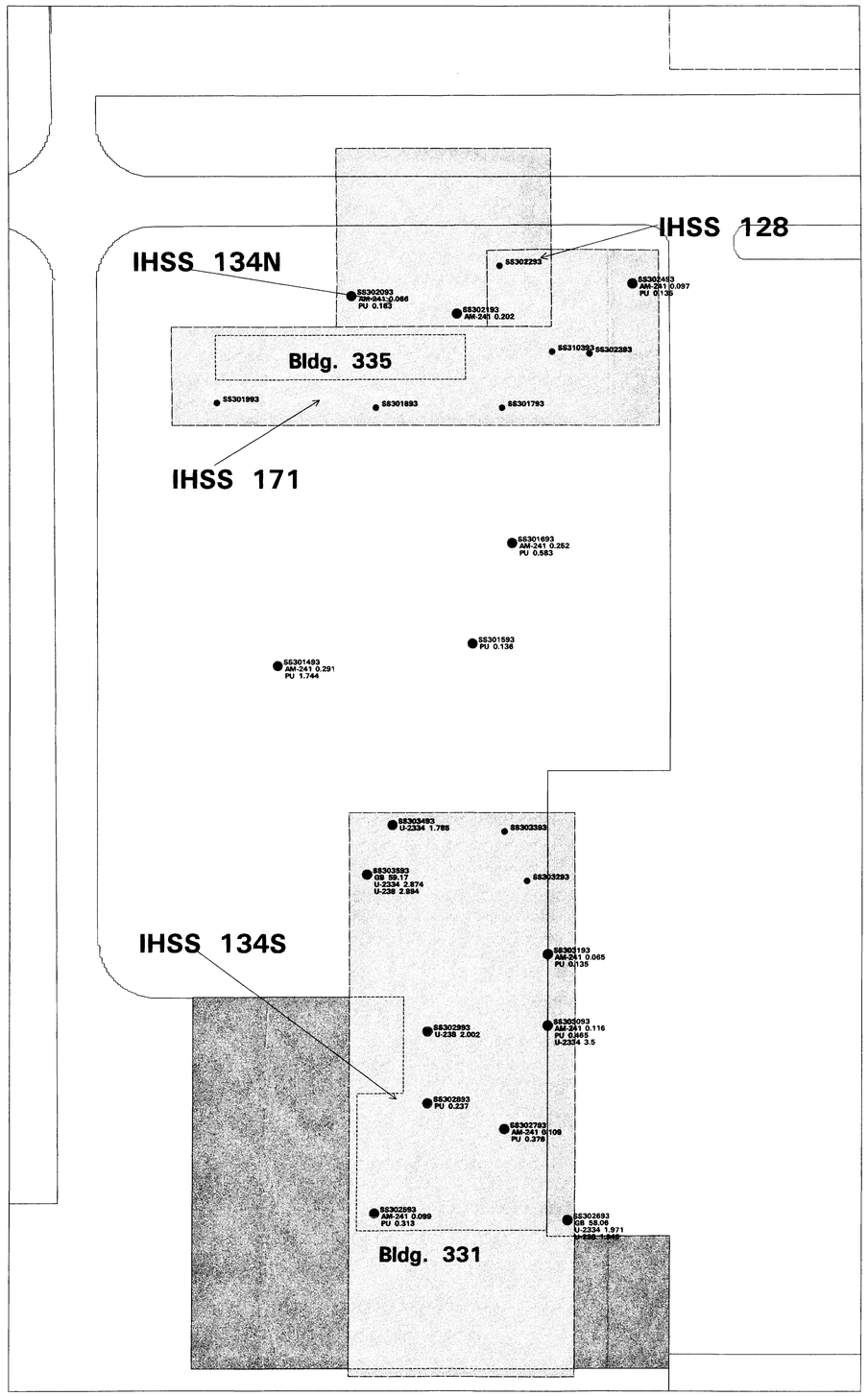
OU13-A-000313

PLATE 7

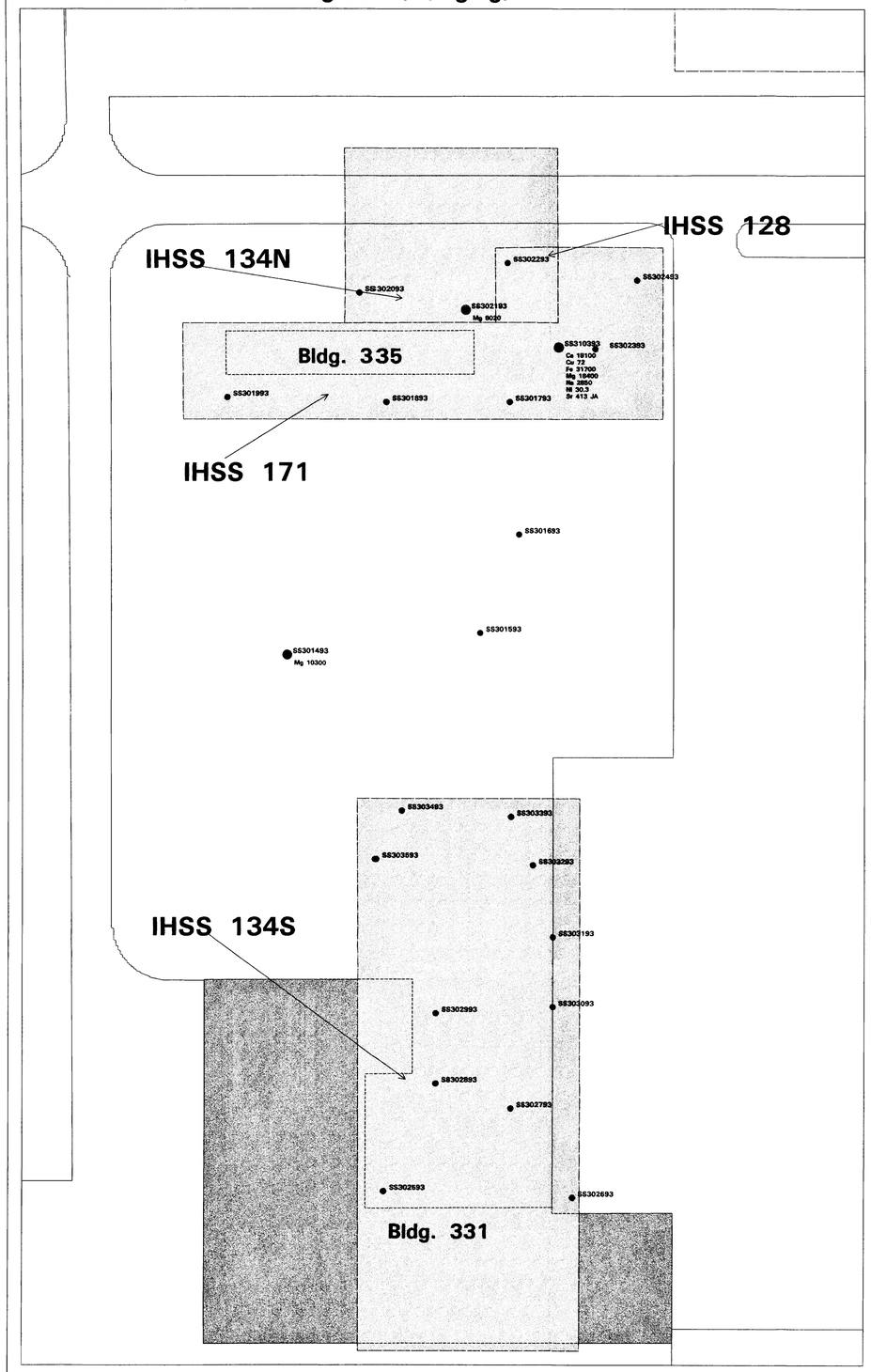
IHSS Group 128, 171, & 134

ANALYTICAL RESULTS FOR SURFACE-SOIL SAMPLES

Radionuclides (Above Background) (pCi/g)



Metals (Above Background) (mg/kg)



EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above background
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Radionuclides:

AM-241 = Americium-241
GB = Gross Beta
PU = Plutonium-239/240
U-2334 = Uranium-233/234
U-238 = Uranium-238

Metals:

Ca = Calcium
Cu = Copper
Fe = Iron
Mg = Magnesium
Na = Sodium
Ni = Nickel
Sr = Strontium

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

(3) Only selected metals were analyzed for in samples collected at IHSS 128, 134(S), and 171. These included only lithium and/or magnesium.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:

EG&G ROCKY FLATS

EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

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OU13-A-000313

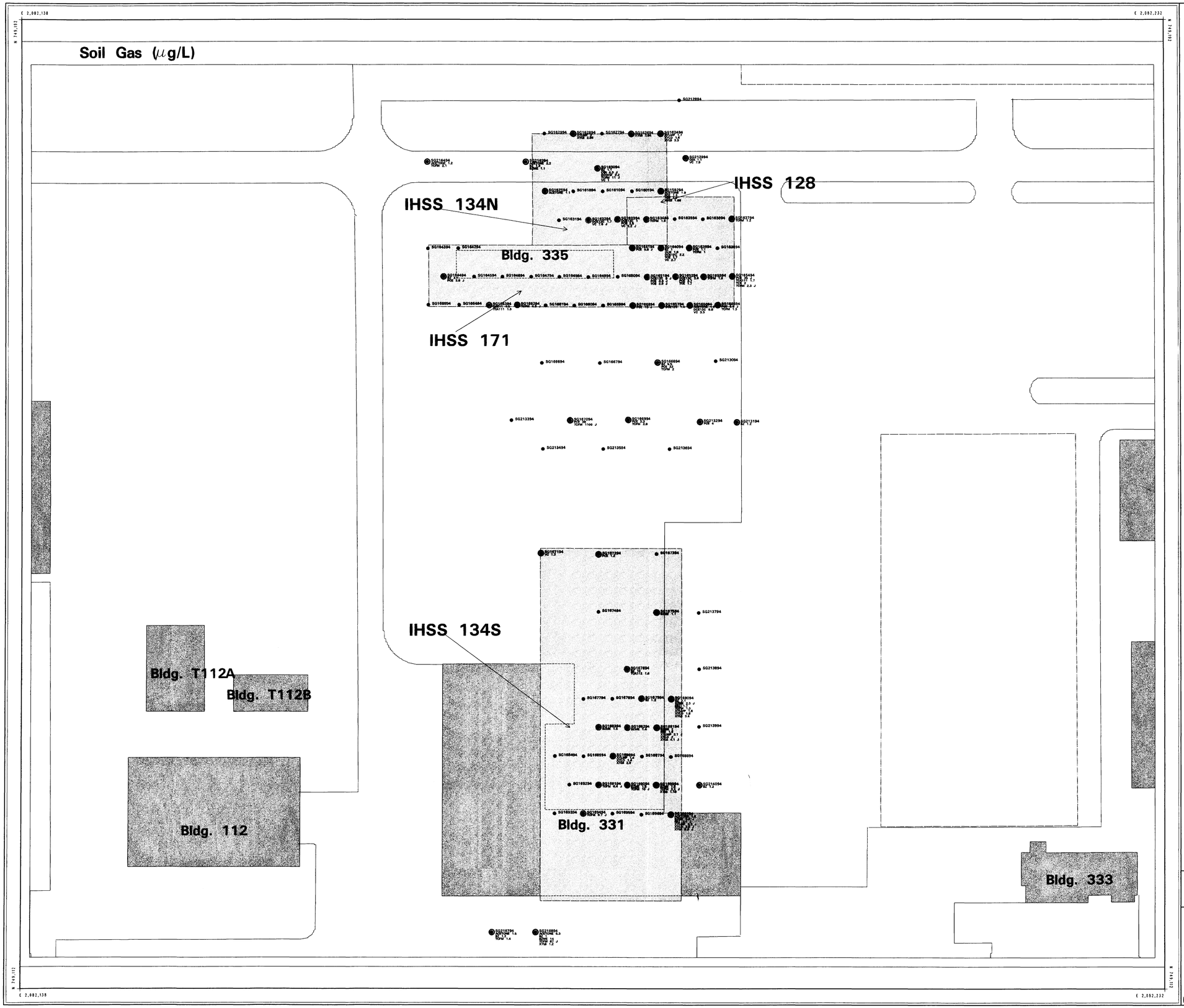

PLATE 8

IHSS Group 128, 171, & 134

ANALYTICAL RESULTS FOR SOIL-GAS SAMPLES

EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above 1.0 µg/l
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

ACETONE = Acetone
BZ = Benzene
BZME = Toluene
CEA = Chloroethane
CLM = Chloromethane
DCDFM = Dichlorodifluoromethane
DCE11 = 1,1-Dichloroethane
DCE12C = cis-1,2-dichloroethene
EBZ = Ethylbenzene
PCE = Tetracholorethene
TCA111 = 1,1,1-Trichloroethane
TCA112 = 1,1,2-Trichloroethane
TCE = Tricholoroethene
TCFM = Trichloroflorometh ane
VC = Vinyl Chloride
XYLMP = m & p Xylenes
XYLO = o-Xylenes
XYLS = Total Xylenes

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

25 0 50 100 ft

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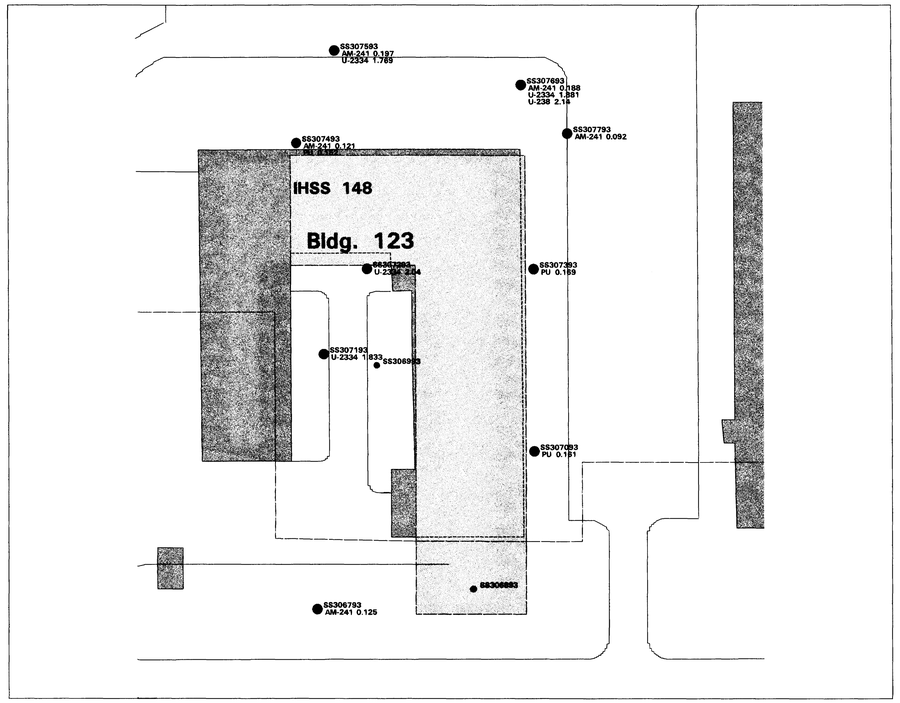
Prepared by:
EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13 June 08, 1995

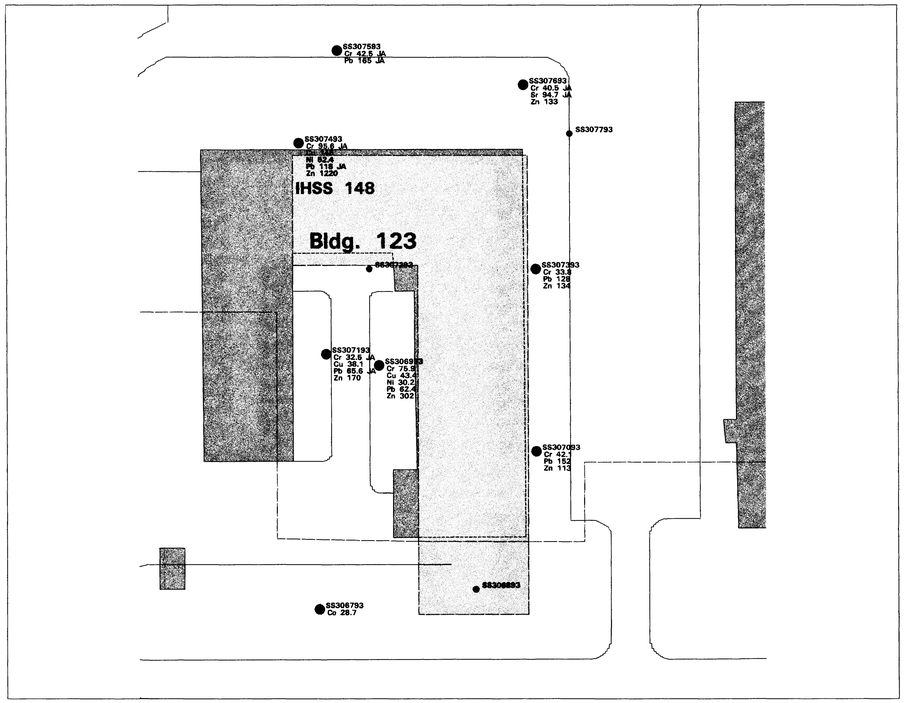
/users/vkjera/6521905/projects/iou/ou13/asplates/sog128e_fr.aml

OU13-A-000313

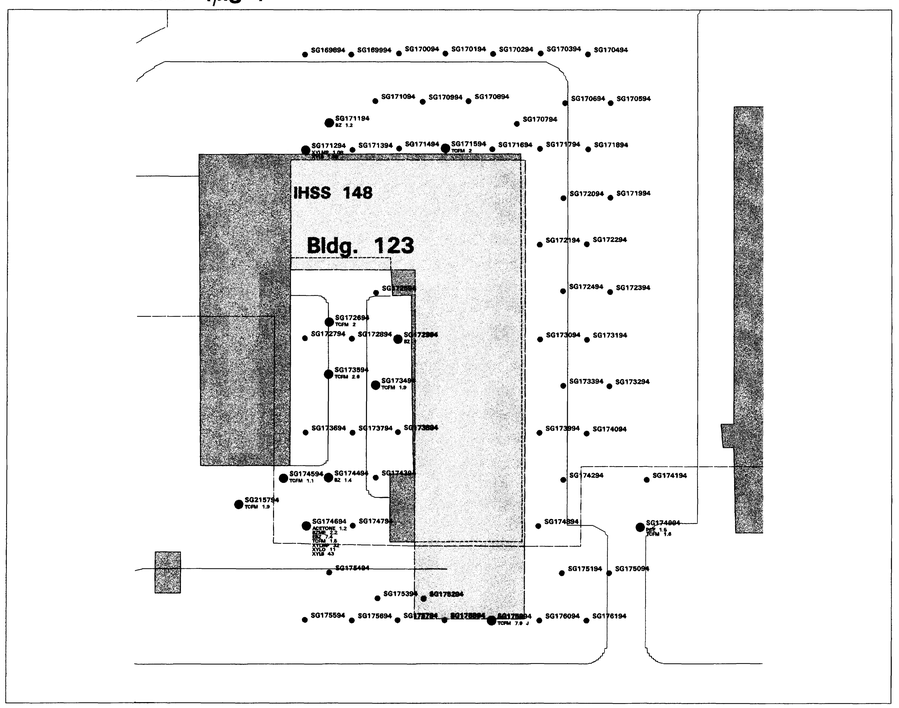
Radionuclides (Above Background) (pCi/g)



Metals (Above Background) (mg/kg)



Soil Gas (μg/l)



Soil Sample Locations

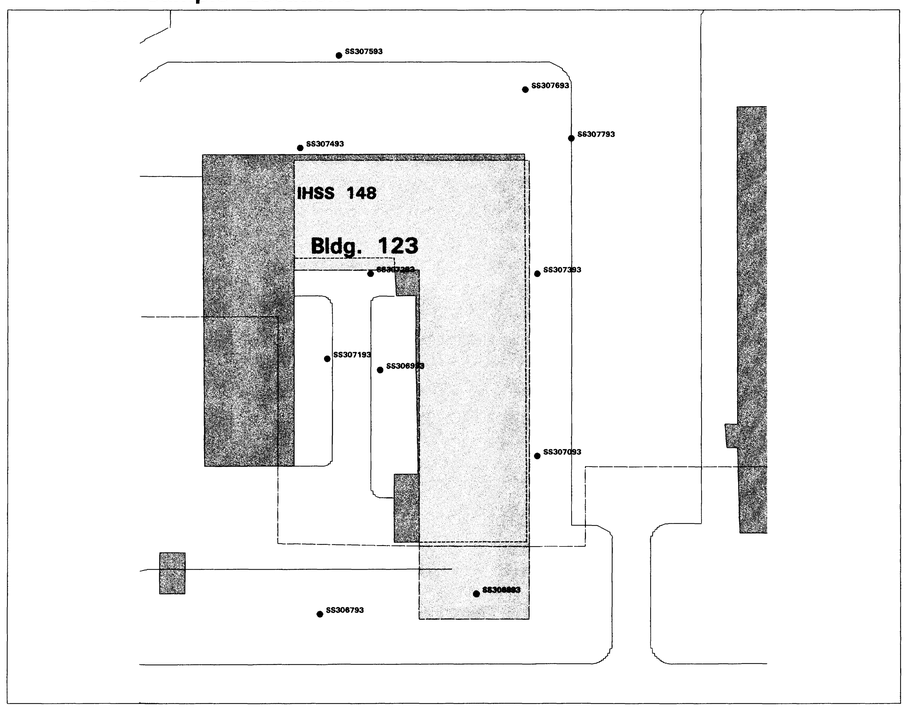


PLATE 9

IHSS 148

ANALYTICAL RESULTS

EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above background (Soil Gas above 1.0 μg/l)
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

ACETONE = Acetone
BZ = Benzene
BZME = Toluene
EBZ = Ethylbenzene
PCE = Tetracholorethene
TCFM = Trichlorofloromethane
XYLMP = m & p-Xylenes
XYLO = o-Xylenes
XYLS = Total Xylenes

Metals:

Co = Cobalt
Cr = Chromium
Cu = Copper
Ni = Nickel
Pb = Lead
Sr = Strontium
Zn = Zinc

Radionuclides:

AM-241 = Americium-241
PU = Plutonium-239/240
U-2334 = Uranium-233,-234
U-238 = Uranium-238

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.

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Rocky Flats Environmental Technology Site

Prepared by:

EG&G ROCKY FLATS

EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13 June 09, 1995

/users/vkjera/s521905/projects/iou/ou13/asplates/sog148e_fr.aml

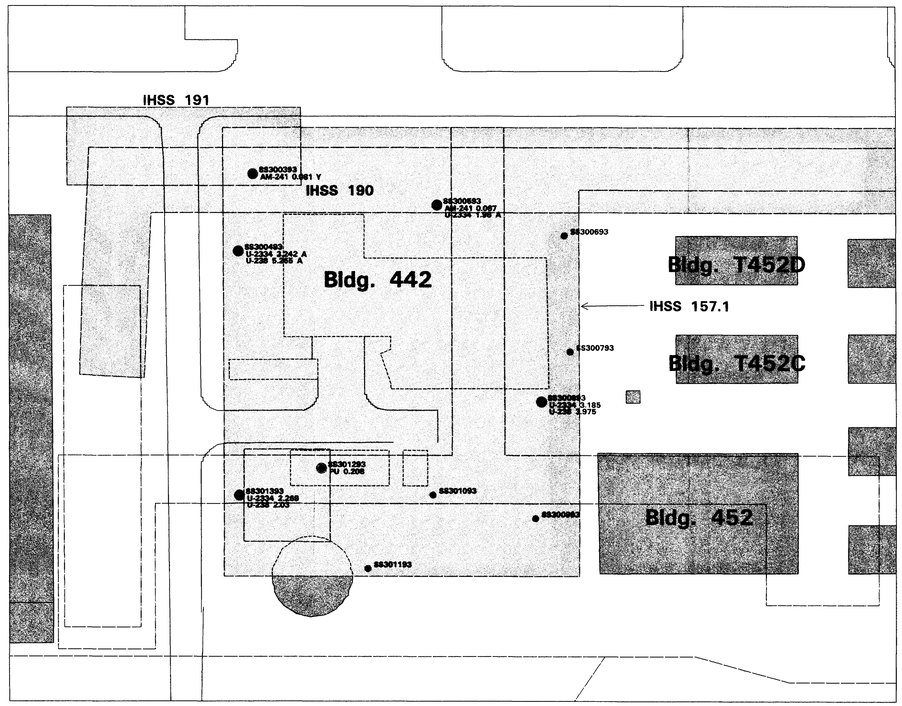
OU13-A-000313

PLATE 10

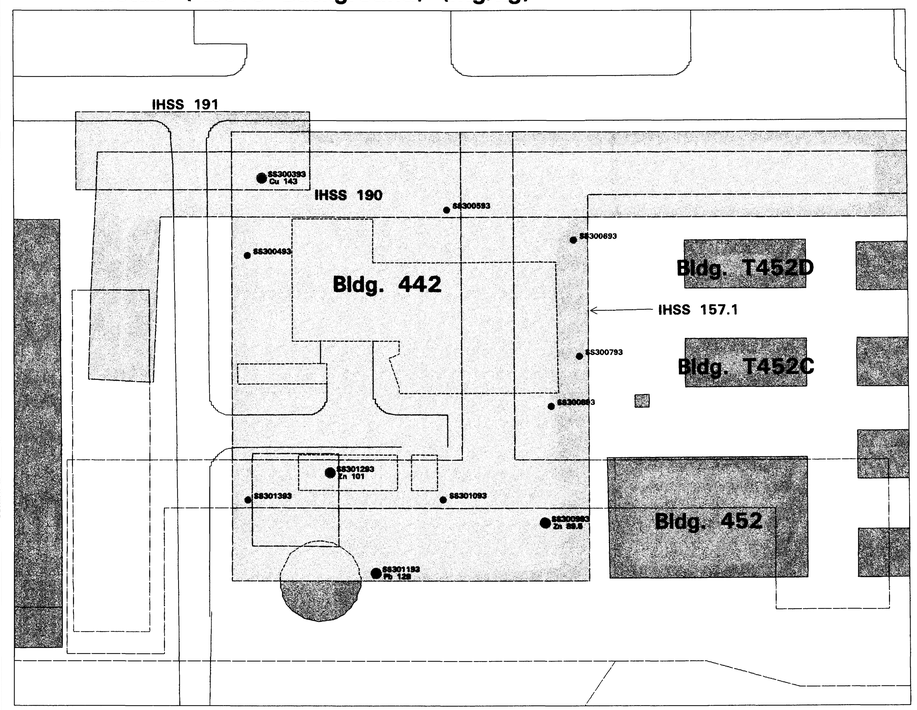
IHSS Group 157.1 & 191

ANALYTICAL RESULTS

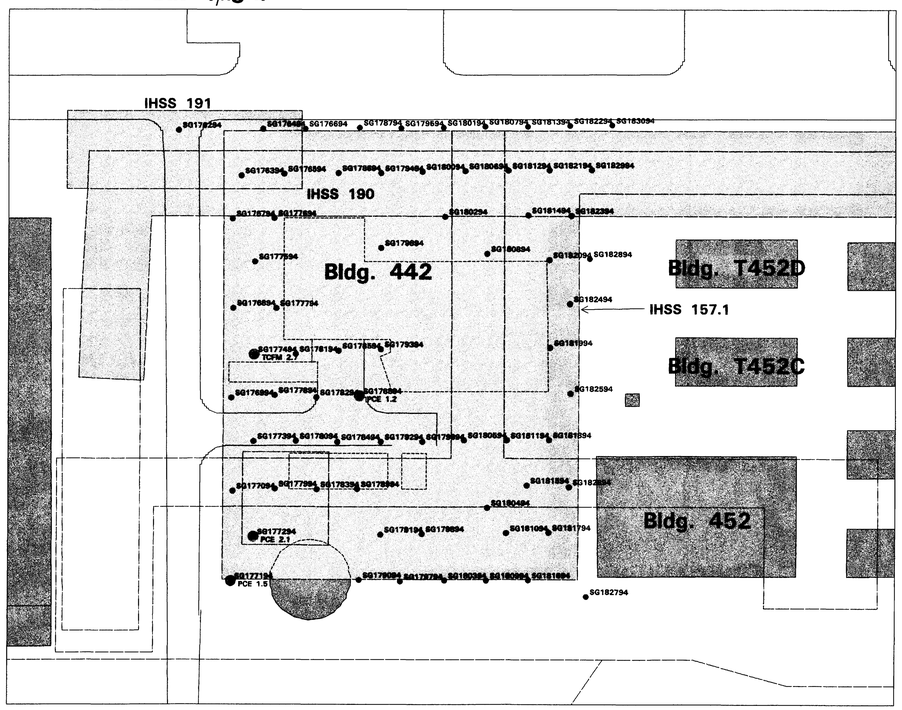
Radionuclides (Above Background) (pCi/g)



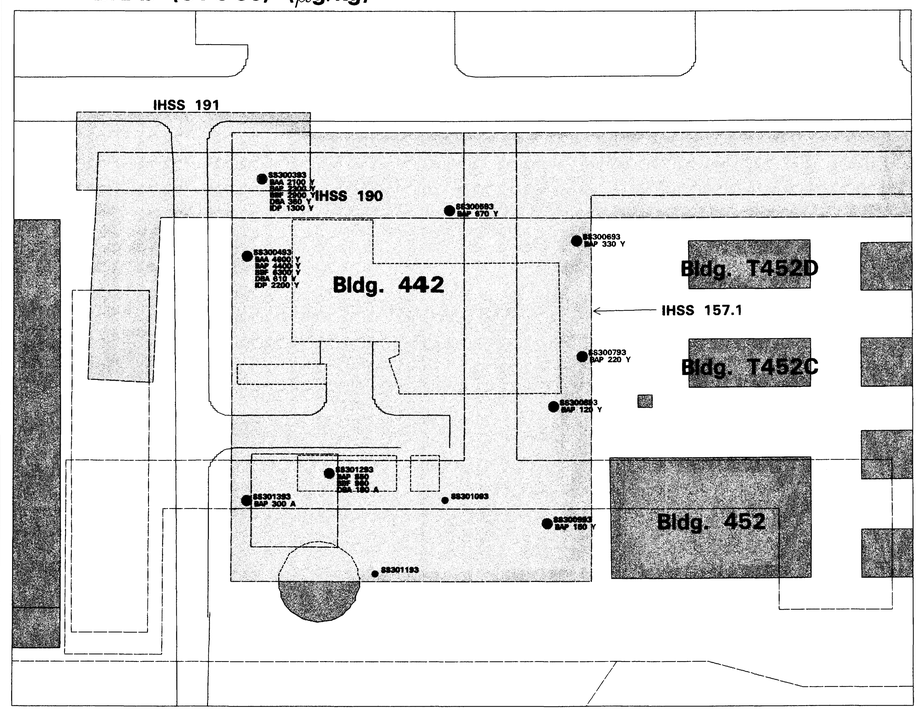
Metals (Above Background) (mg/kg)



Soil Gas (μg/l)



BNAs (SVOCs) (μg/kg)



EXPLANATION

- ● Sample Location (see notes)
- ○ Analyte elevated above background (Soil Gas above 1.0 μg/l)
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

PCE = Tetracholorethene
TCFM = Trichlorofloromethane

Radionuclides:

AM-241 = Americium-241
PU = Plutonium-239/240
U-2334 = Uranium-233,-234
U-238 = Uranium-238

Metals :

Cu = Copper
Pb = Lead
Zn = Zinc

BNAs = Base/Neutral and Acid extractable SVOCs
SVOC = Semi-Volatile Organic Compounds

BAA = Benzo(a)anthracene
BAP = Benzo(a)pyrene
BBF = Benzo(a)fluoranthene
DBA = Dibenzo(a,h)anthracene
IDP = Indeno(1,2,3-cd)pyrene

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

A = Validation Qualifier: laboratory qualifier considered acceptable
Y = Yet to be validated

(2) Only data elevated above background comparison values are shown on this plate.

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Rocky Flats Environmental Technology Site

Prepared by:
EG&G ROCKY FLATS
EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13 June 09, 1995

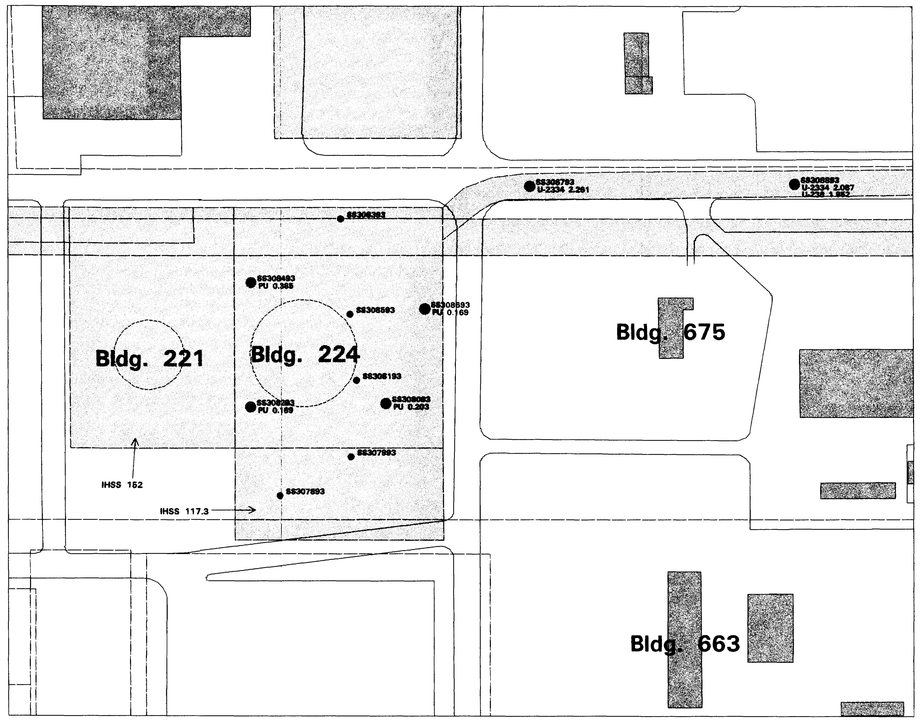
/users/vkjera/s521905/projects/iou/ou13/asplates/sog191e_fr.aml

OU13-A-000313

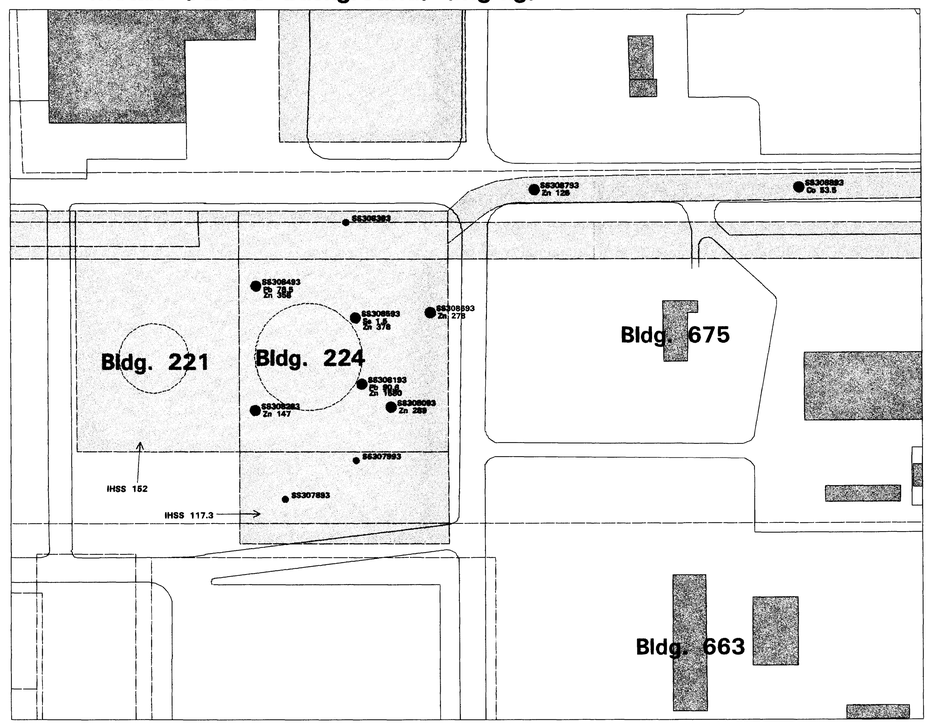
PLATE 11

IHSS Group 152 & 117.3
ANALYTICAL RESULTS

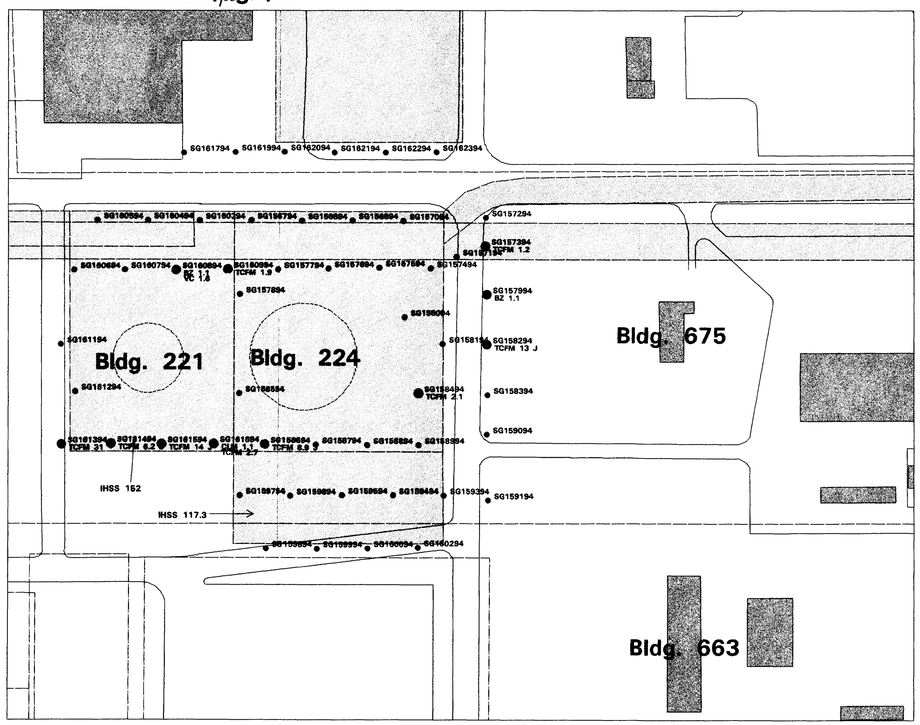
Radionuclides (Above Background) (pCi/g)



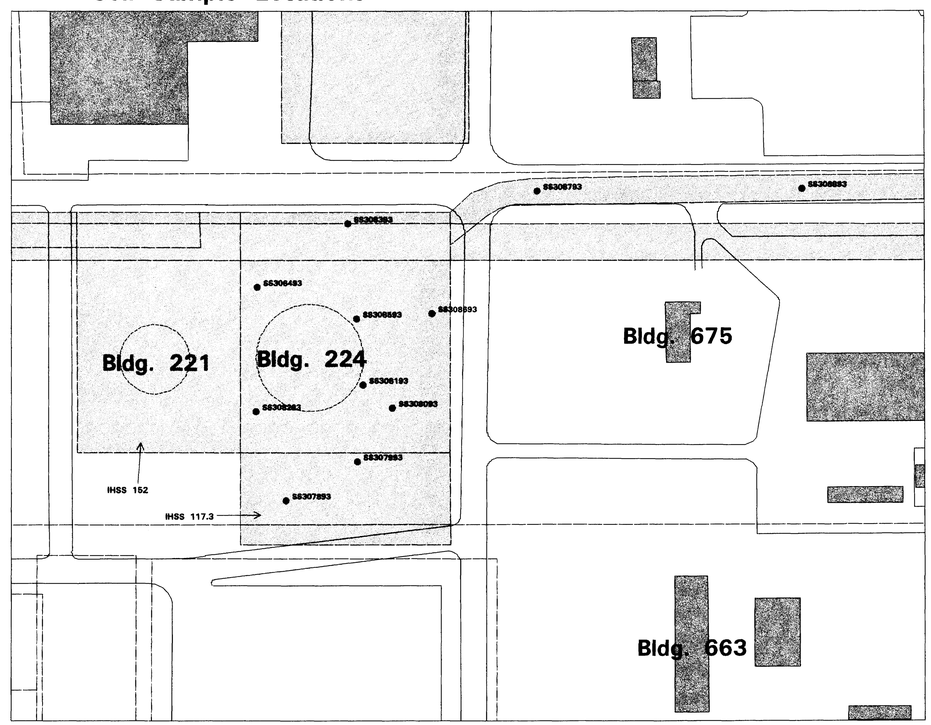
Metals (Above Background) (mg/kg)



Soil Gas (μg/l)



Soil Sample Locations



EXPLANATION

- Sample Location (see notes)
- Analyte elevated above background (Soil Gas above 1.0 μg/l)
- OU13 IHSS
- Buildings or other structures
- OU13 IHSS boundary
- Building footprint (where overlaps IHSS)
- Paved roads

Soil Gas:

ACETONE = Acetone
BZ = Benzene
CLM = Chloromethane
TCFM = Trichlorofloromethane
VC = Vinyl Chloride

Metals:

Co = Cobalt
Pb = Lead
Se = Selenium
Zn = Zinc

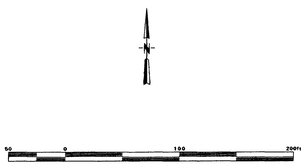
Radionuclides:

PU = Plutonium-239/240
U-2334 = Uranium-233,-234
U-238 = Uranium-238

Notes:

(1) All data are validated (V) unqualified data unless otherwise noted. See associated data tables for full presentation including error terms for radionuclide data.

(2) Only data elevated above background comparison values are shown on this plate.



U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:
EG&G ROCKY FLATS

EG&G Rocky Flats
P.O. Box 464
Golden, Colorado 80402-0464

MAP ID: ou-13

June 09, 1995

/users/vkjera/s521905/projects/iou/ou13/asplates/sog152e_fr.aml

0413-A-000313
11 OF 11