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25 March 1998

MEMORANDUM FOR MR. BENITO GARCIA, CHIEF
HAZARDOUS & RADIOACTIVE MATERIALS BUREAU
NEW MEXICO ENVIRONMENT DEPARTMENT
PO BOX 26110
SANTA FE NM 87502

MAR 1998

FROM: 377 ABW/EMR
2000 Wyoming Blvd SE, Ste D-6
Kirtland AFB NM 87117-5659

SUBJECT: Phase 2 RCRA Facility Investigation (RFI) Report

1. We are forwarding a copy of our final draft Phase 2 RFI Report for SWMUs 6-30, Radioactive Burial 11 (RW-06) and WP-58, East Laundry (Building 20451) (WP-58) with appendices. Additional copies of the report without appendices are being sent to Mr. Steve Pullen of your staff and Ms. Julie Jacobs with the Groundwater Quality Bureau. A copy of the report in Word Perfect on 3½" disc is included.

2. Phase 2 characterization at SWMU 6-30 is in response to the EPA's comments on the original Stage 2D-1 RFI report; and at SWMU WP-58 is based on recommendations made by Kirtland AFB in the original Stage 2E RFI Report. This RFI is intended to complete characterization at these two SWMUs.

3. Please call me at (505) 846-0053 if you have any questions regarding this documents. Documents submitted after 1 April 1998 will follow the new NMED guidance.

CHRISTOPHER B. DEWITT, R.P.G.
Chief, Restoration Branch
Environmental Management Division

cc:
NMED-HRMB (Mr. Pullen) w/o appendices
NMED-GWQB (Ms. Jacobs) w/o appendices
EPA Region 6 (Ms. Morlock)
HQ AFMC/CEVR (Mr. Sims)
AFCEE/ERDM (Mr. Arnold) w/o report
CH2MHILL (Ms. Halloran) w/o report

# Kirtland Air Force Base
# Albuquerque, New Mexico

## Phase 2 RCRA Facility Investigation
## Solid Waste Management Unit 6-30
## Radioactive Burial 11 (RW-06) and
## Solid Waste Management Unit WP-58
## East Laundry (Building 20451) (WP-58)

**March 17, 1998**


**377 ABW/EMR**
**2000 Wyoming Blvd. SE**
**Kirtland AFB, New Mexico 87117-5659**

# Kirtland Air Force Base
# Albuquerque, New Mexico

## Phase 2 RCRA Facility Investigation
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**March 17, 1998**


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**2000 Wyoming Blvd. SE**
**Kirtland AFB, New Mexico 87117-5659**

**INSTALLATION RESTORATION PROGRAM**

**KIRTLAND AIR FORCE BASE**

**ALBUQUERQUE, NEW MEXICO**

# PHASE 2 RCRA FACILITY INVESTIGATION (RFI) FOR SOLID WASTE MANAGEMENT UNIT 6-30 RADIOACTIVE BURIAL 11 (RW-06) AND SOLID WASTE MANAGEMENT UNIT WP-58 EAST LAUNDRY (BUILDING 20451) (WP-58)

**MARCH 17, 1998**

***Prepared For***

**HQ AFCEE/ERDM**

**ENVIRONMENTAL RESTORATION DIVISION**

**BROOKS AFB, TEXAS 78235-5363**

**DSN: 240-5288 COMM: (210) 536-5288**

**USAF CONTRACT NO. F41624-94-D-8053 DELIVERY ORDER NO. 0092**

***Prepared By***

**CH2M HILL**

**ALBUQUERQUE, NEW MEXICO**

# NOTICE

This report has been prepared for the United States Air Force by CH2M HILL for the purpose of aiding in the implementation of a RCRA Facility Investigation (RFI) under the Air Force Installation Restoration Program (IRP). As the plan relates to the investigation of actual or possible releases of potentially hazardous substances, its release prior to an Air Force final decision on the proposed activities may be in the public's interest. The limited objectives of this plan and the ongoing nature of the IRP, along with the evolving knowledge of site conditions and chemical effects in the environment and health, must be considered when evaluating the effectiveness of proposed activities, since subsequent facts may become known which may make this plan premature or inaccurate.

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# REPORT DOCUMENTATION PAGE

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Albuquerque, New Mexico
Phase 2 RCRA RFI, Solid Waste Management Unit 6-30, Radioactive Burial 11 (RW-06) and Solid Waste Management Unit WP-58, East Laundry (Building 20451) (WP-58)

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**13. ABSTRACT (Maximum 200 words)**

This Kirtland AFB RFI report presents the results of the RFI activities at SWMU 6-30, Radioactive Burial 11 (RW-06) and SWMU WP-58, East Laundry (Building 20451) (WP-58). The RFI was performed to confirm or refute the presence of contamination, and if present, to characterize and delineate contamination. The results of the investigation were used to evaluate the risks to human health and the environment that these sites pose and make recommendations in an effort to effectively reduce, control, or eliminate those risks.

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## CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JAMES S. LEATHERWOOD, GS-14
Director
Environmental Management Division

# PREFACE

This Phase 2 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) presents the results of the investigative activities at Solid Waste Management Unit 6-30, Radioactive Burial 11 (RW-06) and Solid Waste Management Unit WP-58, East Laundry (Building 20451) (WP-58) of the RCRA Part B Permit for Kirtland Air Force Base (AFB). This report was prepared to address the requirement of the U.S. Air Force (USAF) Statement of Work dated February 13, 1997, and the requirements for an RFI Report as specified in the RCRA Part B Permit for Kirtland AFB.

This report was prepared by CH2M HILL in March 1998. Mr. Bassim D. Shebaro of the Air Force Center for Environmental Excellence was the Restoration Team Chief and Mr. Rodney Arnold served as the Contracting Officer's Representative.

Michael J. Bitner
CH2M HILL Vice President

Amy R. Halloran, P.E.
CH2M HILL Project Manager

# CONTENTS


| Section | | Page |
|---|---|---|
| Preface | | v |
| Figures | | ix |
| Tables | | x |
| Acronyms | | xii |
| Executive Summary | | ES-1 |
| 1. | INTRODUCTION | 1-1 |
| 1.1 | USAF Installation Restoration Program | 1-1 |
| 1.2 | Installation Description | 1-1 |
| 1.3 | Report Format | 1-4 |
| 1.4 | Description of Current Study | 1-5 |
| 1.4.1 | Project Objectives | 1-5 |
| 1.4.2 | Investigative Process | 1-5 |
| 1.4.3 | Interpretation of Analytical Results | 1-5 |
| 1.4.3.1 | Comparison of Concentrations with HHRB Screening Levels | 1-6 |
| 1.4.3.2 | Background Concentrations—Attribution of Contaminants to Anthropogenic Activities | 1-6 |
| 1.4.3.3 | FDA Dietary Standards for Nonradioactive Compounds of Concern | 1-7 |
| 1.4.3.4 | Excess Lifetime Risks (SWMU 6-30 Only) | 1-7 |
| 1.4.4 | Scoping Documents | 1-9 |
| 1.4.5 | Subcontractors and Their Roles | 1-10 |
| 2. | SWMU 6-30, RADIOACTIVE BURIAL 11 (RW-06) | 2-1 |
| 2.1 | Previous Investigations | 2-4 |
| 2.1.1 | Appendix IV, Stage 2D-1 RFI | 2-4 |
| 2.2 | 1997 CH2M HILL Field Investigation Scope | 2-33 |
| 2.3 | 1997 CH2M HILL RFI Results | 2-33 |
| 2.3.1 | Nonradioactive Compounds of Concern | 2-107 |
| 2.3.1.1 | Comparison to HHRB Screening Levels | 2-107 |
| 2.3.1.2 | Comparison to Background Concentrations | 2-112 |
| 2.3.1.3 | Comparison to FDA Dietary Standards | 2-119 |
| 2.3.1.4 | Excess Lifetime Cancer Risks from Internal and External Radiation Exposure | 2-119 |
| 2.4 | Nature and Extent of Contamination | 2-122 |
| 2.5 | Conclusions and Recommendations | 2-123 |
| 2.5.1 | Conclusions | 2-123 |
| 2.5.2 | Recommendations | 2-123 |

# CONTENTS, CONTINUED

**Section** **Page**

3. SWMU WP-58, EAST LAUNDRY (BUILDING 20451) (WP-58) ..... 3-1

3.1 Previous Investigations ..... 3-1
3.1.1 Site Landscaping Study ..... 3-1
3.1.2 SWMU Assessment Investigation ..... 3-3
3.1.3 June 1995 RFI ..... 3-4
3.2 Field Investigation ..... 3-4
3.3 1997 CH2M HILL RFI Results ..... 3-6
3.3.1 Comparison to HHRB Screening Levels ..... 3-6
3.3.2 Comparison to Background Concentrations ..... 3-28
3.3.3 Comparison to FDA Dietary Standards ..... 3-33
3.4 Nature and Extent of Contamination ..... 3-34
3.5 Conclusions and Recommendations ..... 3-36
3.5.1 Conclusions ..... 3-36
3.5.2 Recommendations ..... 3-36

REFERENCES .....

APPENDICES (Bound Separately)
A. USAF Statement of Work
B. Correspondence with Federal, State, and Local Government Agencies
C. Borehole Logs, RW-06
D. Field Notes, RW-06
E. Surveying Data, RW-06
F. 1997 CH2M HILL RFI Analytical Results, RW-06
G. 1997 CH2M HILL RFI Chain-of-Custody Forms, RW-06
H. Validation Memoranda, RW-06
I. Not used
J. EPA Region 6 Human Health Risk-Based (HHRB) Media-Specific Screening Levels
K. Borehole Logs, WP-58
L. Field Notes, WP-58
M. Surveying Data, WP-58
N. 1997 CH2M HILL RFI Analytical Results, WP-58
O. 1997 CH2M HILL RFI Chain-of-Custody Forms, WP-58
P. Validation Memoranda, WP-58

# FIGURES


| Figure | | Page |
|---|---|---|
| 1-1 | Location of Kirtland AFB, Albuquerque, New Mexico | 1-2 |
| 1-2 | Site Location Map | 1-3 |
| 2-1 | Site Location Map, SWMU 6-30, Radioactive Burial 11 (RW-06) | 2-2 |
| 2-2 | Locations of Suspected Burial Trenching Activities at SWMU 6-30 | 2-3 |
| 2-3 | RFI Sampling Locations, SWMU 6-30 | 2-34 |
| 3-1 | Boring Locations, SWMU WP-58 | 3-2 |
| 3-2 | Boring Locations and Proposed Excavation Limits, SWMU WP-58 | 3-35 |

# TABLES


| Table | | Page |
|---|---|---|
| 2-1 | Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 | 2-5 |
| 2-2 | Reportable Analytical Data for SWMU 6-30 by Analyte | 2-35 |
| 2-3 | Reportable Analytical Data for SWMU 6-30 by Sample Locations | 2-91 |
| 2-4 | Comparison of Maximum Reported Data for SWMU 6-30 to HHRB Screening Levels | 2-108 |
| 2-5 | Comparison of Analytical Data from SWMU 6-30 to Background Concentrations | 2-112 |
| 2-6 | Summary of Arsenic Samples from SWMU 6-30 Exceeding DOE and SNL UTLs | 2-113 |
| 2-7 | Literature Values for Arsenic Concentrations in Soils and Rocks | 2-114 |
| 2-8 | Summary of Copper Samples from SWMU 6-30 Exceeding SNL UTLs | 2-116 |
| 2-9 | Number of HHRB Exceedances Per Sample Collected from SWMU 6-30 | 2-118 |
| 2-10 | Summary of Maximum Reported Essential Nutrients Data for SWMU 6-30 | 2-119 |
| 2-11 | Summary of Maximum Reported Radioactive Isotope Concentrations for SWMU 6-30 | 2-120 |
| 2-12 | RESRAD Inputs for SWMU 6-30 | 2-121 |
| 2-13 | Total Radiation Dose for SWMU 6-30 | 2-121 |
| 2-14 | Excess Cancer Risks by Pathway (Year 0) for SWMU 6-30 | 2-122 |
| 3-1 | Summary of 1983 Landscaping Study Reportable Analytical Results, SWMU WP-58 | 3-1 |
| 3-2 | Summary of SWMU Assessment Study Reportable Analytical Results, SWMU WP-58 | 3-3 |
| 3-3 | Summary of 1995 RFI Reportable Analytical Results, SWMU WP-58, East Laundry (Building 20451) (WP-58) | 3-5 |
| 3-4 | Reportable RFI Analytical Data for SWMU WP-58 by Analyte | 3-7 |
| 3-5 | Reportable RFI Analytical Data for SWMU WP-58 by Sample Location | 3-21 |
| 3-6 | Comparison of Maximum Reported Data for SWMU WP-58 to HHRB Screening Levels | 3-25 |
| 3-7 | Comparison of Analytical Data from SWMU WP-58 to Background concentrations | 3-29 |

# TABLES


| Table | | Page |
|---|---|---|
| 3-8 | Summary of Arsenic Samples from SWMU WP-58 Exceeding DOE and SNL UTLs | 3-30 |
| 3-9 | Literature Values for Arsenic Concentrations in Soils and Rocks | 3-30 |
| 3-10 | Number of HHRB Exceedances Per Sample Collected from SWMU WP-58 | 3-33 |
| 3-11 | Summary of Maximum Reported Essential Nutrients Data for SWMU WP-58 | 3-34 |

# ACRONYMS

| | |
|---|---|
| AFB | Air Force Base |
| AFCEE | Air Force Center for Environmental Excellence |
| AFWL | Air Force Weapons Laboratory |
| bgs | belowground surface |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability At of 1980 |
| CMS | Corrective Measures Study |
| DCQAP | Data Collection Quality Assurance Plan |
| DMP | Data Management Plant |
| DOE/OB | Department of Energy/Oversight Bureau |
| DRO | diesel range organics |
| DRV | daily reference value |
| EPA | U.S. Environmental Protection Agency |
| FDA | Food and Drug Administration |
| FSP | Field Sampling Plan |
| ft | feet |
| GRO | gasoline range organics |
| HEAST | Health Effects Assessment Summary Tables (EPA) |
| HHRB | human health risk-based |
| ICM | Interim Corrective Measure |
| IRP | Installation Restoration Program |
| kg | kilogram |
| mg | milligram |
| mg/kg | milligram per kilogram |
| mrem/year | millirem per year |
| NMED | New Mexico Environment Department |
| pCI/g | picocurie per gram |
| PID | photoionization detector |
| QAPP | Quality Assurance Project Plan |
| QC | quality control |

| | |
|---|---|
| RCRA | Resource Conservation and Recovery Act |
| RDI | recommended daily intake |
| RFI | RCRA Facility Investigation |
| RI/FS | Remedial Investigation/Feasibility Study |
| SAP | Sampling and Analysis Plan |
| SARA | Superfund Amendments and Reauthorization Act |
| SNL | Sandia National Laboratories |
| SSHP | Site Safety and Health Plan |
| SVOC | semivolatile organic compound |
| SWMU | solid waste management unit |
| TAL | target analyte list |
| TPH | total petroleum hydrocarbon |
| USAF | U.S. Air Force |
| UTL | upper tolerance limit |
| VOC | volatile organic compound |

# EXECUTIVE SUMMARY

# EXECUTIVE SUMMARY

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at Kirtland Air Force Base (AFB) was performed to fulfill the requirements of the Kirtland AFB RCRA Part B Permit. This report addresses two solid waste management units (SWMUs) listed in Module IV of the permit. The objective of this RFI was to determine the nature and extent of contaminants that may be present in areas of the sites not investigated during previous investigations.

The RFIs at SWMU 6-30, Radioactive Burial (RW-06) and SWMU WP-58, East Laundry (Building 20451) (WP-58) were conducted during June and July 1997, respectively. Investigation activities included soil boring installation, soil sample collection, and laboratory analyses. Subsurface soil samples were collected using a direct-push drill rig (Geoprobe). Samples from SWMU 6-30 were analyzed for numerous parameters including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, mercury, cyanide, and specific radioactive nuclides. Samples from SWMU WP-58 were analyzed for SVOCs and target analyte list metals, and select samples also were analyzed for VOCs. Analytical results from the RFIs were validated and then evaluated by comparison to the U.S. Environmental Protection Agency (EPA) Region 6 human health risk-based (HHRB) screening levels. Metals data were also compared to Kirtland AFB background levels. These background levels established the upper tolerance limits for the 95$^{th}$ percentile of background concentrations. Radioactive nuclide results were analyzed using the RESRAD model (Version 5.0). This model was selected as requested by New Mexico Environment Department Risk Assessment personnel.

Anthropogenic, nonradioactive compounds of concern were not detected at concentrations exceeding the residential or the industrial HHRB screening levels at these sites. Model calculations using maximum radioactive nuclide data indicate that neither the Department of Energy radiation guidelines nor the EPA's acceptable radiation risk range were exceeded at SWMU 6-30.

A Corrective Measures Study, to include installation of a groundwater monitoring well to confirm no impacts to groundwater and a formal risk assessment, is recommended to support no further RCRA action for SWMU 6-30, Radioactive Burial (RW-06). A native soil cap to prevent erosion and ponding in low areas also is recommended at SWMU 6-30. For SWMU WP-58, the horizontal and vertical extent of contamination that were identified during previous investigations were sufficient to characterize the site. Therefore, no further investigation is recommended for this site; however, remedial excavation to address those areas in which SVOCs have been identified at concentrations in excess of HHRB screening levels is recommended.

# SECTION 1.
# INTRODUCTION

# 1. INTRODUCTION

This Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) report was prepared for Kirtland Air Force Base (AFB) as part of the U.S. Air Force (USAF) Installation Restoration Program (IRP) and Environmental Compliance Program under Contract Number F41624-94-D-8053, Delivery Order 0092. The report summarizes the RFI activities conducted at solid waste management units (SWMUs) 6-30, Radioactive Burial 11 (RW-06) and WP-58, East Laundry (Building 20451) (WP-58), which are listed in Module IV to the RCRA Part B Permit for Kirtland AFB. This RFI report was prepared to meet the requirements of the USAF Statement of Work dated February 13, 1997 (USAF, 1997a).

The purpose of this RFI was to determine whether contaminant source material was present in the nine burial trenches located at SWMU 6-30, to delineate the horizontal and vertical extent of contaminants released at SWMU 6-30, and to delineate the horizontal and vertical extent of hazardous materials that may have been released by the former Sandia Army Base laundry facility that was operated at SWMU WP-58. The results of this investigation were used to determine the need for any additional corrective action at the sites or to recommend for No Further Action.

## 1.1 USAF Installation Restoration Program

The IRP was developed to identify, confirm/quantify, and remedy problems caused by past management of hazardous substances at USAF facilities. It is the basis for assessment and response actions at USAF installations. The IRP guidance was initially published in January 1982 under the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and was developed as a four-phased program:

- Phase I—Installation Assessment
- Phase II—Confirmation/Quantification
- Phase III—Technology Base Development
- Phase IV—Remedial Action Plan/Operations

After the Superfund Amendments and Reauthorization Act (SARA) was passed in October 1986, the USAF altered the IRP by combining Phases II and IV into one Remedial Investigation/Feasibility Study (RI/FS) stage to parallel the Environmental Protection Agency (EPA) CERCLA RI/FS process. Because these sites are also listed as SWMUs, the RCRA corrective action schedule was followed as part of the RCRA process.

## 1.2 Installation Description

Kirtland AFB is located in Bernalillo County, in central New Mexico, southeast of and adjacent to the City of Albuquerque and the Albuquerque International Airport (Figure 1-1). The approximate area of the base is 52,287 acres. Figure 1-2 is a general site plan for the base showing the locations of SWMU 6-30 and SWMU WP-58. A detailed discussion of base history, geology, and climate is included in Section 2 of Volume II of the Kirtland AFB Base-Wide Plans (USAF, 1995).

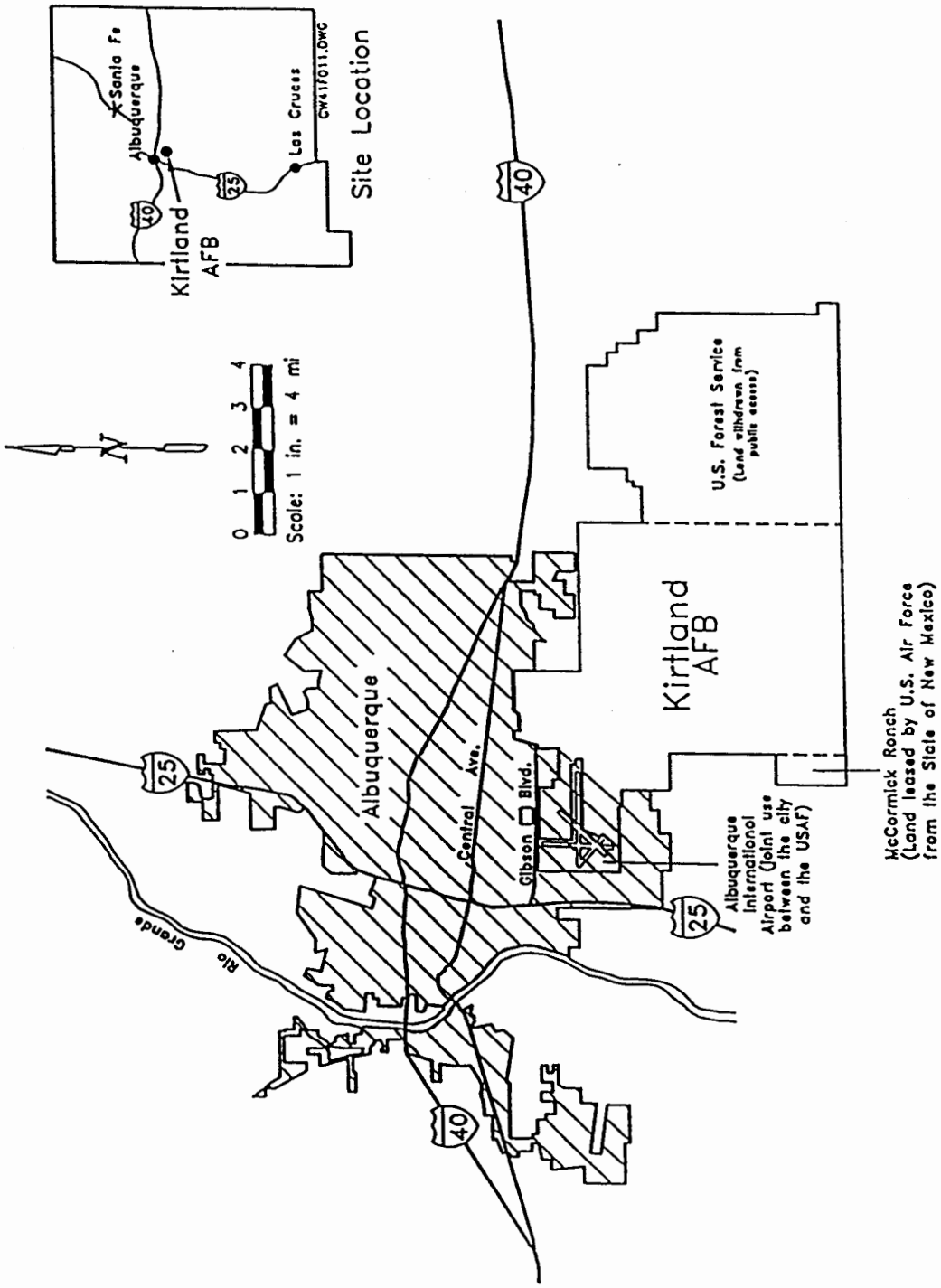


Figure 1-1. Location of Kirtland AFB, Albuquerque, New Mexico

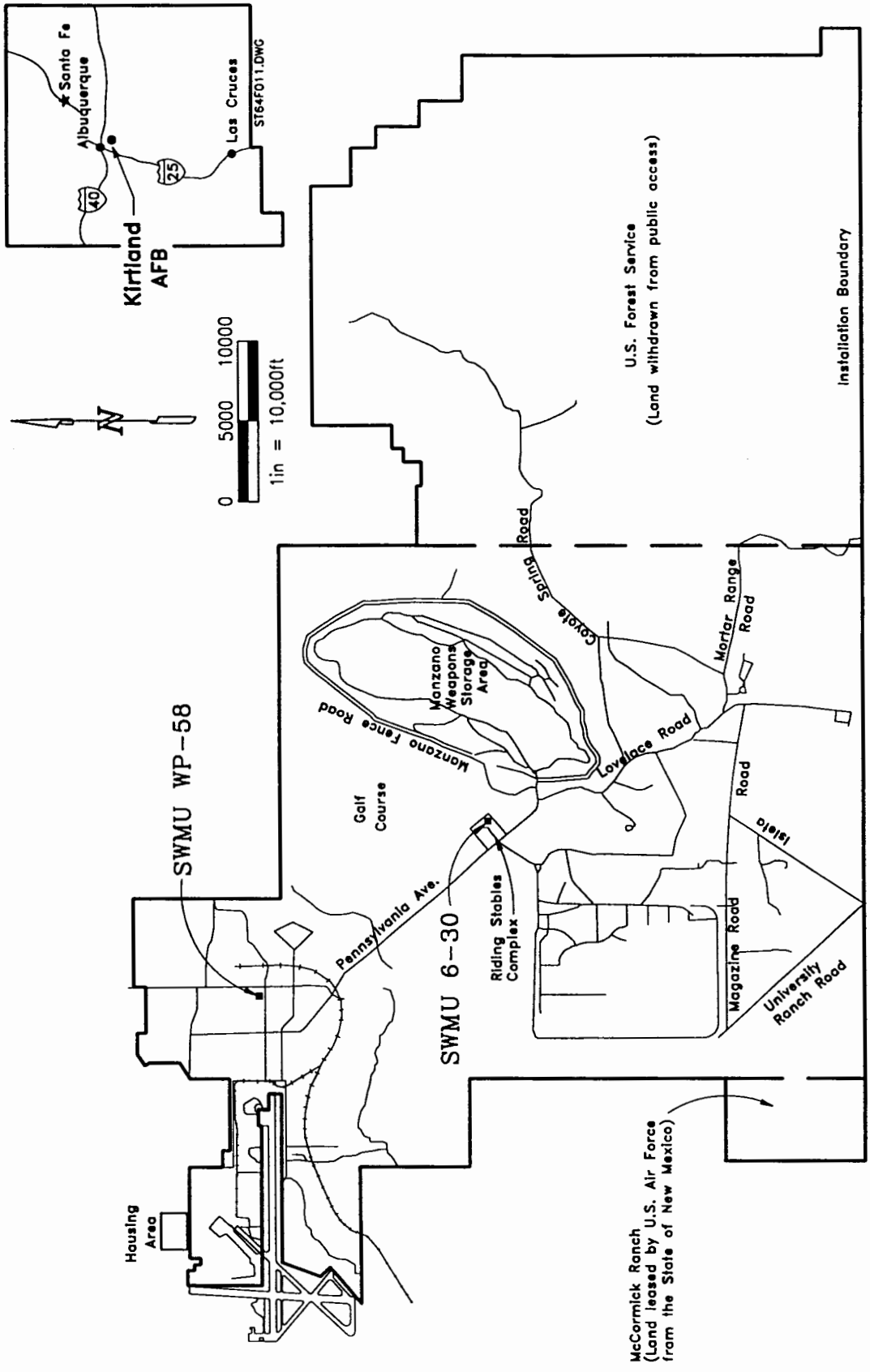


Figure 1-2. Site Location Map

## 1.3 Report Format

This report was prepared to present information regarding SWMU 6-30, Radioactive Burial 11 (RW-06) and SWMU WP-58, East Laundry (Building 20451) (WP-58). The general locations of the sites are shown on Figure 1-2.

This report is organized into three sections plus appendices, which are contained in separate volumes. The format for this RFI report was developed in consultation with the USAF.

- **Section 1—Introduction.** This section outlines the current study and scope of this RFI, as well as general installation background information.

- **Sections 2 and 3—Site Descriptions.** These sections present information specific to each site, including study area descriptions, details on previous and current investigations conducted at the sites, and a discussion of the analytical results for the samples collected and the nature and extent of any contamination as defined by those samples. Finally, each section contains a conclusions and recommendations subsection that, based on analytical results, either outlines any further data needs and makes recommendations for future action or proposes that a No Further Action decision document be prepared for the site.

- **Appendices**—Appendix information is as follows:

| | |
|---|---|
| Appendix A | USAF Statement of Work |
| Appendix B | Correspondence with Federal, State, and Local Government Agencies |
| Appendix C | Borehole Logs, RW-06 |
| Appendix D | Field Notes, RW-06 |
| Appendix E | Surveying Data, RW-06 |
| Appendix F | 1997 CH2M HILL RFI Analytical Results, RW-06 |
| Appendix G | 1997 CH2M HILL RFI Chain-of-Custody Forms, RW-06 |
| Appendix H | Validation Memoranda, RW-06 |
| Appendix I | Not used |
| Appendix J | EPA Region 6 Human Health Risk-Based (HHRB) Media-Specific Screening Levels |
| Appendix K | Borehole Logs, WP-58 |
| Appendix L | Field Notes, WP-58 |
| Appendix M | Surveying Data, WP-58 |
| Appendix N | 1997 CH2M HILL RFI Analytical Results, WP-58 |
| Appendix O | 1997 CH2M HILL RFI Chain-of-Custody Forms, WP-58 |
| Appendix P | Validation Memoranda, WP-58 |

## 1.4 Description of Current Study

This RFI addresses two SWMUs: SWMU 6-30, Radioactive Burial 11 (RW-06) and SWMU WP-58, East Laundry (Building 20451) (WP-58). These SWMUs are listed in Module IV of Kirtland AFB's RCRA Part B Permit. Work proceeded according to the final draft Sampling and Analysis Plans (SAP) prepared for SWMU 6-30 and SWMU WP-58 (USAF, 1997b and USAF, 1997c ).

### 1.4.1 Project Objectives

The overall goal of the environmental investigation work at Kirtland AFB was to adequately characterize any environmental contamination to determine all of the following:

- Whether further investigation activities are needed.
- Whether a No Further Response Action designation is appropriate.
- The nature and extent of contamination, if present, as necessary to develop and design corrective measures.

### 1.4.2 Investigative Process

The investigative process required data collection and the development or refinement of a conceptual model for each site. A conceptual model consists of the following:

- Identification of any contaminants present and their concentrations
- Source characterization including location, source volume or quantity, and concentrations of hazardous constituents at the source
- Identification of potential migration pathways
- Identification of potential receptors

The degree of refinement necessary for a conceptual model at a site depends in part on the type and extent of contamination identified. Data were collected during the RFI to gain an understanding of the nature and extent of potential contamination at the sites.

### 1.4.3 Interpretation of Analytical Results

Analytical results from the RFI were evaluated by comparison with

- EPA Region 6 HHRB screening levels (EPA, 1996)
- Background concentrations (Department of Energy Oversight Bureau [DOE/OB], 1997, Sandia National Laboratories, New Mexico [SNL/NM], 1996), and background samples taken during this RFI. Literature values were also used in cases where there was no DOE/OB or SNL/NM background values.

- Food and Drug Administration (FDA) Dietary Standards
- Excess lifetime cancer risks from internal and external radiation exposures as estimated by the RESRAD model (SWMU 6-30 only)

Although SWMU 6-30 and SWMU WP-58 are in an industrial future land use category, both residential and industrial HHRB screening levels were used for comparison. The three criteria above were used in determining whether sites required further action. How each criterion was used is described in the following four subsections.

#### *1.4.3.1 Comparison of Concentrations with HHRB Screening Levels*

Maximum reported concentrations of compounds were compared to the EPA Region 6 screening values (EPA, 1996). In order to account for the possible additive effects related to exposure to multiple, noncarcinogenic contaminants, the EPA screening values were reduced to 10 percent of the actual screening values, per EPA Region 6 requirements (EPA, 1996).

#### *1.4.3.2 Background Concentrations—Attribution of Contaminants to Anthropogenic Activities*

Any constituents that exceeded an adjusted or unadjusted residential or industrial screening levels were then compared to site background concentrations. Sites were not recommended for further action unless evidence indicated contamination had anthropogenic origins. Any concentrations of organic constituents, if present, would be assumed to be the result of anthropogenic activities, associated with either the SWMU under investigation, or with past site operations.

Since certain metals, particularly arsenic, beryllium, and manganese, are naturally occurring at concentrations exceeding HHRB screening levels throughout Kirtland AFB (SNL/NM, 1996), upper tolerance limits (UTLs) were used as a major criterion for determining whether these and other metals concentrations are of anthropogenic origin. The UTL method of calculating an upper level of background concentrations (Lieberman, 1958) provides a useful benchmark for comparison purposes. Using this method, a concentration is calculated to separate expected background concentrations for a particular metal from those that indicate potential contamination. However, it must be recognized that in comparisons with the UTL, which is approximately the 95$^{th}$ percentile of background concentrations, about 5 percent of concentrations can be expected to exceed the UTL within background or other noncontaminated samples.

The UTLs that have been calculated by SNL (SNL/NM, 1996) and DOE (DOE/OB, 1997) are applied within Sections 2 and 3 of this report as one criterion for determining whether metals are naturally occurring, or are the result of contamination. Other criteria used were

- Average soil concentrations of the metals as reported in the literature
- Spatial distribution of concentrations (including background samples)
- History of site operations
- Occurrence of other contaminants (volatile organic compounds [VOCs], semivolatile organic compounds [SVOCs], total petroleum hydrocarbons [TPH], or other metals)

In 1997, a set of suggested maximum background concentrations for Kirtland AFB was released by the New Mexico Environment Department (NMED) DOE/OB for 20 nonradioactive constituents of concern. These concentrations were based partly on results of the SNL/NM study (1996), but were based primarily on a separate study conducted by the DOE/OB. In some cases, the suggested maximum background concentrations are equivalent to SNL-calculated UTLs, but in other cases they differ. For the purposes of these investigations, comparisons of measured concentrations were made to both SNL- and DOE-calculated UTLs as well as any background samples taken during the investigations.

If nonradioactive contamination of anthropogenic origin and/or radioactive contamination that presented an unacceptable risk to human health was detected, a site was generally recommended for further action (Corrective Measures Study [CMS] or Interim Corrective Measures [ICM]). However, isolated nonradioactive compound concentrations above the certain HHRB screening levels (e.g., metals data), especially where risk to human health or the environment is minimal (e.g., at depth), were not considered cause for further action. If the extent of contamination was defined and concentrations were below HHRB action levels, a site was generally recommended for no further action. If sampling failed to define the extent of contamination, further action was considered, even if concentrations did not exceed HHRB screening levels.

The maximum reported concentration of a chemical contaminant at a site was used for screening level risk assessment purposes. This may lead to an overestimate of the actual concentrations present over the entire area evaluated. However, using the maximum reported concentration also assumes that the highest levels of contamination at a site were identified. In reality, other hot spots or contaminant locations exhibiting higher concentrations may exist.

#### *1.4.3.3 FDA Dietary Standards for Nonradioactive Compounds of Concern*

At the request of the NMED (1997), maximum reported concentrations of essential nutrients were compared to the FDA's recommended daily intakes (RDIs) and daily reference values (DRVs) based on a daily intake of 100 milligrams (mg) of soil as follows:

Daily intake = Maximum reported concentration (mg/kg) x 100 mg of soil/day
x $10^{-6}$ kg/mg (assumes residential receptor)

#### *1.4.3.4 Excess Lifetime Risks (SWMU 6-30 Only)*

Specific screening levels do not exist for evaluation of concentrations of specific radioactive nuclides of concern. In order to evaluate the human health risk associated with radioactive compounds of concern at the site, the RESRAD model (Version 5.0) was used to estimate the dose and excess lifetime cancer risks associated with internal and external radiation exposures. This model was selected as requested by NMED Risk Assessment personnel during an August 19, 1997, meeting held at Kirtland AFB. In addition to default and site-specific inputs into the model, updated cancer slope factors published in the EPA's Health Effects Assessment Summary Tables (HEAST) (EPA, 1995) were used in the model. Based on model input values, RESRAD estimates the site-specific guidelines allowable for residual concentrations of radionuclides in soil. A guideline is defined as a radionuclide concentration or a level of radiation or radioactivity that, given appropriate use scenarios and site parameters, will reasonably ensure that individual dose limits and/or constraints will be achieved.

The half-life time limit was set at 30 days (radionuclides with half-lives less than 30 days were not included in the analysis). In RESRAD, the radionuclides associated with a principal radionuclide parent consist of

all decay products down to, but not including, the next principal radionuclide in the chain. It is assumed that all associated radionuclides are in secular equilibrium with their principal radionuclides in the contaminated zone and also at the location of human exposure. A shorter cutoff half-life (30 days versus 0.5 years) has the advantage of increasing the number of principal radionuclides available to RESRAD and yields a conservative estimate. The more important effect of selecting a shorter cutoff half-life is the change that can occur in the effective dose equivalent conversion factors, which include the contributions of all associated radionuclides in the decay chain. If the dose factor does change, the final result (with a shorter cutoff time) is a more accurate ingrowth calculation.

Uncertainties in these screening level risk assessments are associated with data collection, exposure assessment, toxicity assessment, and risk characterization, specifically as applied by RESRAD. The sections below discuss the uncertainties associated with different aspects of the RESRAD screening assessment and identify, qualitatively, the impact of those uncertainties on the risk characterization results.

***Data Collection***

The maximum-reported concentration of a chemical or radiological contaminant at a site was used for screening level risk assessment purposes. This may lead to an overestimate of the actual concentrations present over the entire area evaluated. However, using the maximum-reported concentration or activity also assumes that the highest levels of contamination at a site were identified. In reality, other hot spots or contaminant locations exhibiting higher concentrations or activities may exist.

***Exposure Assessment***

Certain worker activity patterns were assumed and incorporated into the RESRAD model input. The fraction of time spent outdoors is assumed to be 0.25, which equates to about 62.5 workdays each year or 12.5 weeks each year that an individual would spend at a site (assuming an 8-hour workday). For SWMU 6-30, this frequency is probably an overestimate of the time personnel would spend in this area, leading to an overestimate of the potential for risk. Since there are no structures or buildings located on this site, and none are assumed to be built in the future, no indoor exposure to radiation was assumed and the fraction of time spent indoors was set to 0. This is currently a realistic assumption for the sites; however, should site conditions change, a different assumption may be more appropriate.

***Toxicity Assessment***

The risk of increased incidence of cancer or of fatal cancer from exposure to low-level radiation is determined by applying a risk factor to either the radiation dose or the radionuclide intake. Regardless of the type of risk factor used, the same basic uncertainties remain, which are related to the model used for determining the health effects of radiation exposure, which are based on the average risk per unit intake for an individual.

The model most frequently used for determining risk of radiation exposure is the linear nonthreshold model. This model assumes that there is some increased risk for any increment of radiation exposure; there being no threshold below which effects are not seen. This is the most conservative model for evaluating radiation risk. The model uses data from high-dose radiation exposures and extrapolates risk from these high exposures to the low-level environmental or occupational dose range. There is uncertainty as to whether such high-dose-rate data are applicable for comparison with doses at or near natural background levels. Federal agencies, however, currently use the linear nonthreshold model for rulemaking.

Use of carcinogenic slope factors is also subject to several types of uncertainties. The studies from which these values are derived typically involve conditions that are dissimilar to the type of exposures of interest involving radionuclides in the environment. For instance, for exposure to ionizing radiation, data to establish dose-response estimates are taken primarily from studies of human populations exposed to high levels of radiation such as atomic bomb survivors, underground miners, radium dial painters, patients injected with radium, and patients who received high x-ray doses during various treatment programs. A major source of uncertainty in determining low-level radiation risk is extrapolation of these data to much lower doses.

***Risk Characterization/Dose Estimation***

Application of the RESRAD model includes a number of assumptions that affect the overall dose and risks estimated for SWMU 6-30. These include the following:

- RESRAD treats the contaminated zone as a uniformly contaminated area with a single radionuclide concentration at every point using the initial concentrations of principal radionuclides in the contaminated zone. By applying the maximum-reported radionuclide activity, the model assumes this level is present at every point. This most likely overestimates the possible exposure level, since it is unrealistic to assume such uniformity of activity distribution throughout the area evaluated.

- Potassium-40 is included in the analysis although its presence is most likely attributable to background conditions. Background levels of radionuclides were not subtracted from the estimated total dose or risk for a site, which may lead to an overestimate of the potential for risk or resulting radiation dose from anthropogenic radiation sources.

- The models and input parameters incorporated into RESRAD were chosen to be realistic, but reasonably conservative, and the calculated doses corresponding to guideline values of the radionuclide concentrations are expected to be reasonably conservative estimates (overestimates) of the actual doses.

### 1.4.4 Scoping Documents

The following project scoping documents were used to implement this RFI at Kirtland AFB:

- IRP Base-Wide Final Project Management Plan

- IRP Base-Wide Final Data Collection Quality Assurance Plan (DCQAP) consisting of Part I: Field Sampling Plan (FSP), and Part II: Quality Assurance Project Plan (QAPP)

- IRP Base-Wide Final Data Management Plan (DMP)

- IRP Base-Wide Final Site Safety and Health Plan (SSHP)

### 1.4.5 Subcontractors and Their Roles

Specific subcontractors were required to assist with the implementation of the RFI activities. The following subcontractors were retained under subcontract to CH2M HILL during this investigation:

- ***Surveyor***—Albuquerque Surveying (Albuquerque, New Mexico) served as the licensed New Mexico land surveyor to determine the horizontal coordinates of soil boring locations.

- ***Analytical Laboratory***—QAL, Inc. Laboratory (Redding, California) was the Air Force Center for Environmental Excellence- (AFCEE-) approved laboratory, which performed VOC, SVOC, metals, mercury, cyanide, soil pH, and soil moisture analyses. Lockheed Analytical Services (Las Vegas, Nevada) was retained under subcontract to QAL, Inc. to perform gross alpha and gross beta radiation and gamma spectrometry analyses.

- ***Field Personnel***—TetraTech NUS, previously Brown and Root Environmental, provided field staff to perform the direct-push soil sampling operations.

SECTION 2.

SWMU 6-30

# 2. SWMU 6-30, RADIOACTIVE BURIAL 11 (RW-06)

SWMU 6-30 occupies approximately 4.5 acres within the riding stables complex in the southeast portion of Kirtland AFB (Figure 2-1). From 1960 to 1971, SWMU 6-30 was part of a 40-acre facility operated by the Radiobiology Laboratory, Biophysics Branch, Air Force Weapons Laboratory (AFWL) (USAF, 1981). A major site feature is the presence of nine trenches that were previously used for the disposal of animal carcasses, radioactive material, and possibly small quantities of hazardous and toxic chemicals, including acids, mercury, cyanides, and silver.

The May 13, 1966, request by AFWL for an amendment to its U.S. Atomic Energy Commission permit states that the first four trenches were approximately 50 ft x 9 ft x 2 ft and were covered with approximately 4 ft of compacted earthen material; two were covered with asphalt caps. Two other trenches were approximately 100 ft x 20 ft x 6 ft. One of these trenches was still open and in use at the time of the permit request (Shoppen, 1966). Based on the interpretation of information obtained during a geophysical survey performed at the site in 1994 (Section 2.2), SWMU 6-30 consists of nine trenches having boundaries as presented in Figure 2-2.

Although no accurate records were kept for the quantity of waste disposed, estimates were found in the Phase I study, which reported the disposal of 1,000 to 1,500 sheep, 60 to 75 burros, 40 to 50 goats, 100 to 120 chickens, 500 to 1,000 rats, 5 to 10 cows, and 50 to 60 dogs (USAF, 1981). In addition, unsubstantiated reports indicated small quantities of hazardous and toxic chemicals may have been disposed of in the trenches, including acids, mercury, cyanides, and silver. The Phase I study reported that most of the radioactive material buried in the trenches was in the form of induced activity and short half-lived elements, but several millicuries of elements with longer half-lives (zirconium, niobium, cesium, iodine, and yttrium) may be present (USAF, 1981). Small amounts of the wastes were buried in drums (deBoer, 1992). Anecdotal information suggests that a 55-gallon drum of mercury-containing waste was disposed of in one of the trenches, although this claim is not substantiated.

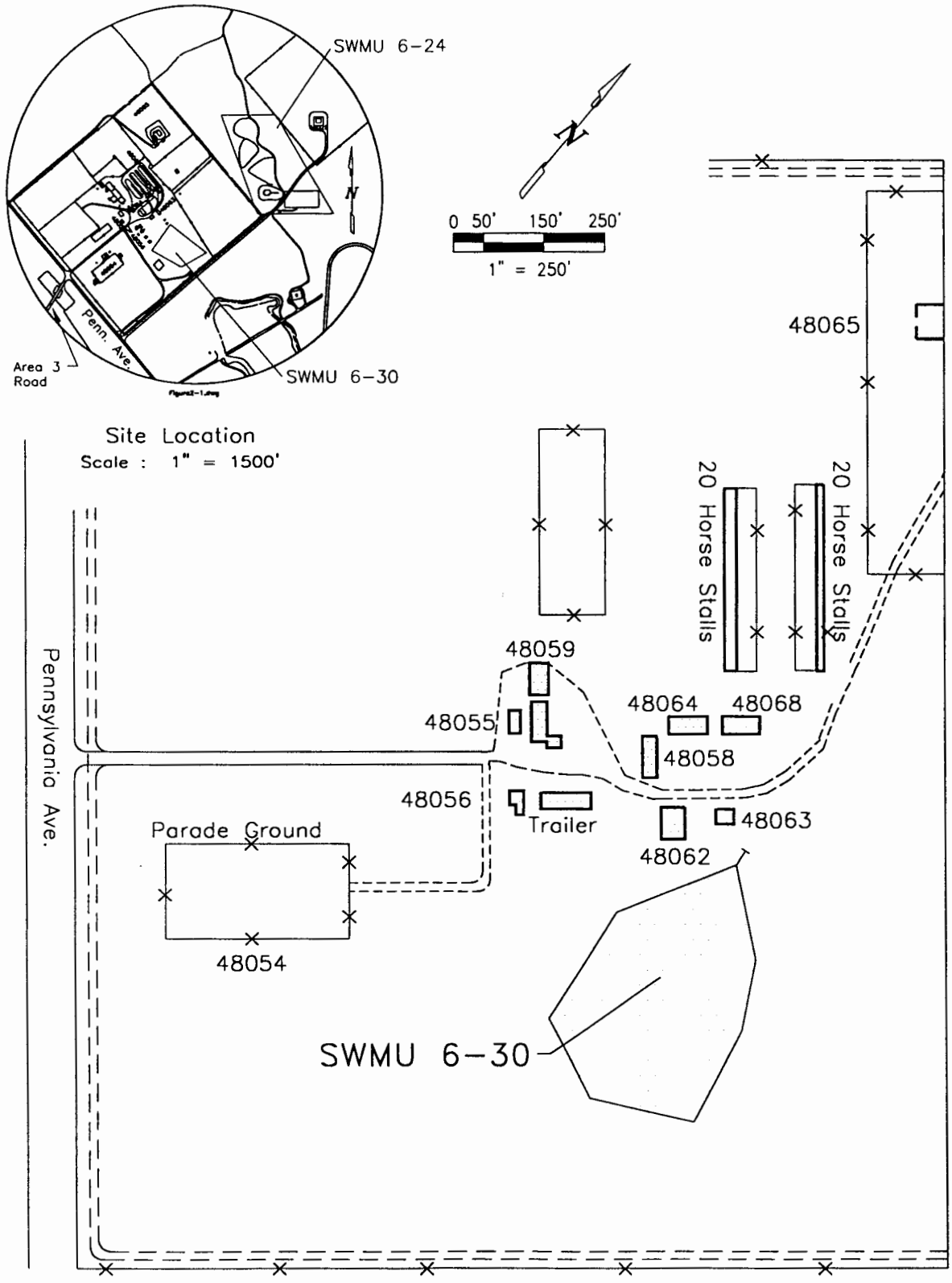


**Figure 2-1. Site Location Map SWMU 6-30, Radioactive Burial 11 (RW-06)**

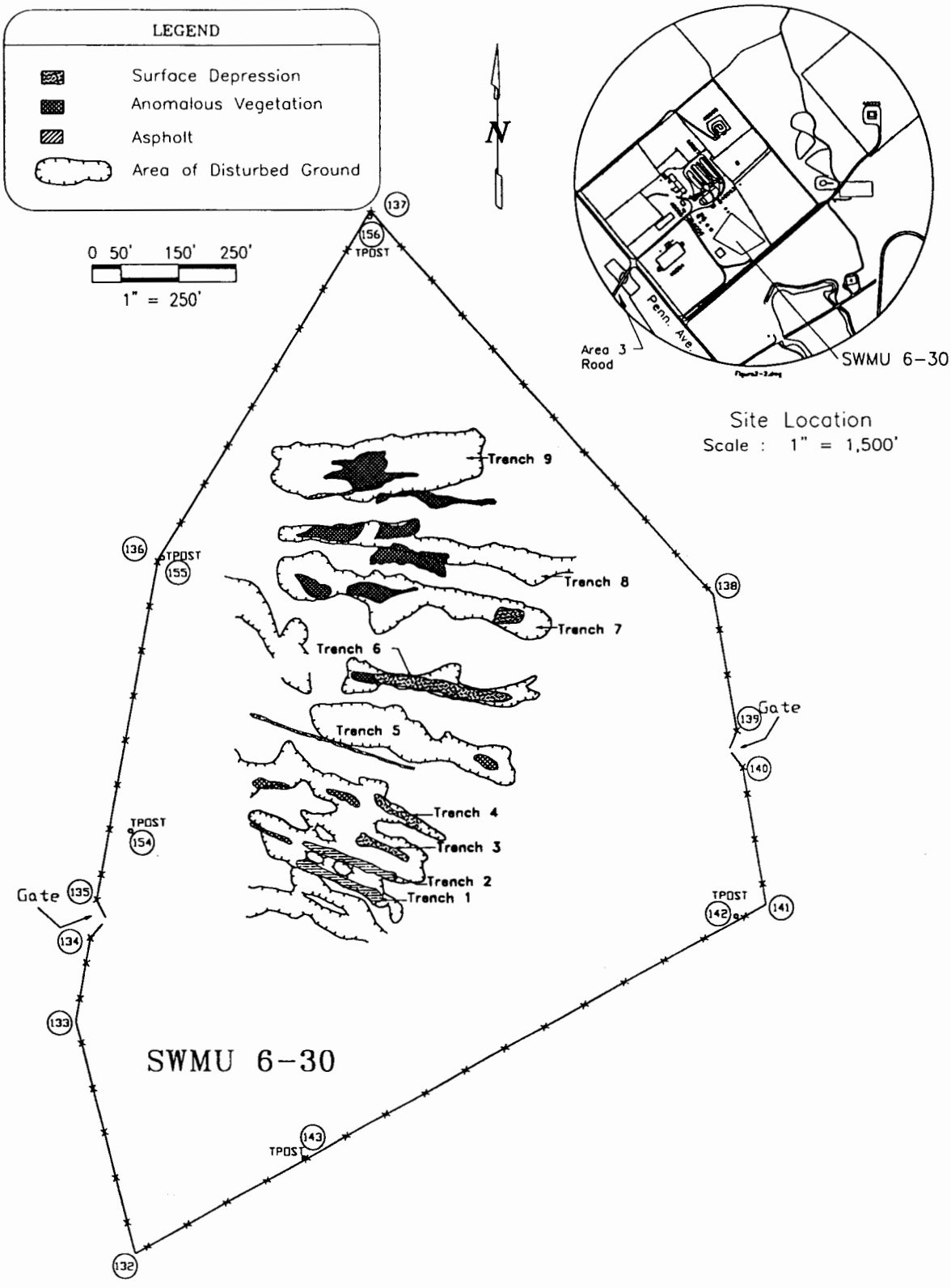


Figure 2-2. Locations of Suspected Trenching Activities at SWMU 6-30

## 2.1 Previous Investigations

Several surveys and investigations have been conducted at SWMU 6-30:

- A Phase I records and historical review study revealed that the site was a trench-and-fill operation from 1960 to 1971 (USAF, 1981).

- A Phase II, Stage 1, IRP field investigation identified sodium and iron in soil samples collected during the advancement of two 100-ft exploratory holes at the south end of the site. Lead, mercury, silver, total organic halogens, oils and greases, and pesticides were not detected. Field-screening for gamma radiation performed on the drill cuttings identified no levels above background (USAF, 1985).

- A June 1992 radiation survey to determine possible air and surface soil contamination identified no radiation levels above background conditions (Caputo, 1992).

- A SNL technology demonstration project, which consisted of installing a horizontal soil boring beneath the six southernmost trenches and measuring gamma radiation in soil adjacent to the borehole using a downhole gamma-ray spectrometer, identified no radiation levels above background conditions (Floran, 1994).

- June 1994 geophysical surveys conducted to further define the extent and depth of the trenches, combined with information from aerial photographs taken in 1966 and 1979 and from observed ground features (depressions, anomalous vegetation, and surface debris), were used to construct a map of the most probable trench areas. The interpretation of these data indicated that nine trenches existed.

### 2.1.1 Appendix IV, Stage 2D-1 RFI

The Appendix IV, Stage 2D-1 RFI (USAF, 1994) was conducted to determine the nature and extent of trench contamination and included surface and subsurface soil sampling in soil adjacent to the trenches (USAF, 1994). Soil samples were analyzed for petroleum hydrocarbon gasoline range organics (GROs) and diesel range organics (DROs), VOCs, SVOCs, metals, cyanide, gross alpha and gross beta radiation levels, radium-226, radium-228, soil pH, and soil moisture. Analytical results indicated the presence of GROs, DROs, VOCs, SVOCs; however, all concentrations were below both regulatory action levels and HHRB screening levels. Metals detected above the HHRB action level included beryllium (0.3 to 0.9 milligram per kilogram [mg/kg]), manganese (428 to 516 mg/kg), chromium (1,130 mg/kg), and copper (12.3 to 1,210 mg/kg). There was not a clear pattern of multiple metals in individual samples all being in exceedance of EPA HHRB screening levels, nor were there other organic contaminants of concern present in the samples. This provides support that these metal concentrations are not the result of anthropogenic activities. Cyanide was not detected in any of the samples collected. Analytical results for radiological parameters showed the samples with concentrations exceeding levels found in the two background borings advanced at the site were well distributed about the site, except for one borehole having samples from four depths with gross alpha radiation levels above background. The analytical results are summarized in Table 2-1, with only reportable concentrations presented.

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-B1 | RB-11-BG01 Background | | | | | RB-11-B2 | RB-11-BG02 Background | | | | | RB-11-01 | | |
| | | | | 0-1 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 0-1 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-13 | 18-22 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND UJ | ND UJ | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.016 | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | 2.1 | 0.055 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.064 | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.017 | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.051 | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | 0.43 | 0.48 | 0.37 | ND | ND | ND | 0.36 | 0.44 | ND | ND | 0.34 | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | 6.5 | 0.36 | ND | 0.79 | 0.88 | ND | ND | ND | ND | ND | 0.43 | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | 12.5 | ND | ND | ND | ND | ND | 16.1 | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 8070 | 11600 | 7060 | 7980 | 6420 | 4520 | 13900 | 8690 | 7150 | 4870 | 4110 | 5680 | 9730 | 7010 | 4810 |
| | Antimony | N/A | 31 | ND | ND | ND UJ | ND | ND | ND | 24.1 | ND | ND | ND UJ | ND UJ | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 86.2 | 174 | 154 | 80.5 | 89.9 | 46.3 | 101 | 252 | 125 | 71.2 | 44.7 | 136 | 145 | 110 | 44.3 |
| | Beryllium | 0.83 | 0.14 | 0.53 | 0.74 | 0.41 | 0.52 | 0.42 | 0.3 | 0.66 | 0.51 | 0.41 | 0.4 | 0.3 | 0.42 | 0.52 | 0.51 | 0.4 |
| | Cadmium | N/A | 38 | 0.63 | ND | 0.52 | ND | 0.52 | ND | ND | ND | 0.52 | 0.5 | ND | ND | ND | ND | ND |
| | Calcium | 119000 | N/A | 8420 | 34400 | 43900 | 28100 | 26600 | 102000 | 10800 | 36600 | 36600 | 30800 | 35200 | 25100 | 27500 | 47300 | 30500 |
| | Chromium, Total | 14.9 | 210 | 8.8 | 9.8 | 13.2 U | 10.3 | 11.4 | 11 | 15 | 10.5 | 11.6 | 8.8 U | 9.1 U | 7.8 | 13.3 | 23.9 | 11.9 |
| | Cobalt | 11.3 | 4,700 | 7.6 | 7.1 | 8 | 7.3 | 7.8 | 5.3 | 9.2 | 6.7 | 6.3 | 6 | 5.8 | 5.1 | 8.2 | 8.2 | 7.3 |
| | Copper | 135 | 2,800 | 12.3 | 67.9 | 72.5 | 69.1 | 106 | 294 | 16.4 | 73.8 | 51.2 | 201 | 143 | 56.9 | 40.9 | 29.1 | 210 |
| | Iron | 20900 | 23,000 | 12800 | 13700 | 10900 | 12600 | 12000 | 7850 | 17300 | 11800 | 10300 | 9720 | 9140 | 8480 | 13700 | 14800 | 10400 |
| | Lead | 22.9 | 400 | 9.1 | 8.1 | 9.2 | 8.6 | 5.6 | ND | 8.6 | 8.1 | 8.2 | 5.5 | 6.6 | 5.7 | 5.6 | 6.9 | ND |
| | Magnesium | 8730 | N/A | 4150 | 5570 | 5070 | 5360 | 5330 | 3830 | 4980 | 5910 | 5200 | 3920 | 3460 | 3380 | 5470 | 5400 | 3470 |
| | Manganese | 435 | 380 | 296 | 332 | 255 | 270 | 287 | 211 | 316 | 232 | 235 | 292 | 203 | 187 | 276 | 274 | 255 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 8.1 | 33.7 | 202 J | 20.5 | 31.6 | 75.8 | 13 | 50.3 | 44.8 | 38.7 J | 19 J | 27.7 | 14.3 | 20 | 17.9 |
| | Potassium | 2730 | N/A | 2790 | 2000 | 1760 J | 1650 | 1080 | 869 | 3310 | 1920 | 1420 | 878 J | 715 J | 1340 | 1540 | 1060 | 756 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 74.1 | 759 | 502 U | 550 | 492 | 228 | 87.7 | 163 | 436 | 175 U | 240 U | 537 | 775 | 637 | 344 |
| | Vanadium | 49.2 | 540 | 24.9 | 26.7 | 23.3 | 24.8 | 22.2 | 15.3 | 32 | 33.5 | 21.4 | 17.9 | 17 | 17.8 | 25.6 | 26 | 19.2 |
| | Zinc | 81.6 | 23,000 | 43.3 | 54.5 | 55.1 J | 50.1 | 62.8 | 117 | 40.3 | 50.3 | 42.2 | 89 J | 64.9 J | 44.4 | 45.2 | 38.8 | 94 |
| RAD (pCVg) | Gross Alpha | | | 21 | 18 | 24 UJ | 21 | 18 | 12 | 20 | 15 | 18 | 10 J | 12 J | 16 | 1.4 | 28 | 21 |
| | Gross Beta | | | 27 | 17 | 30 J | 20 | 19 | 12 | 25 | 23 | 15 | 13 | 23 | 22 | 2.5 | 22 | 24 |
| | Radium-226 | | | 0.4 | 0.7 | 0.4 J | 0.6 | 0.6 | ND | .4 | 0.6 | 0.5 | 0.6 J | 0.6 J | 0.5 | 0.5 | 0.5 | 0.7 |
| | Radium-228 | | | 0.5 | 0.4 | 0.3 J | 0.4 | 0.4 | ND | 0.4 | 0.3 | 0.4 | 0.5 J | 0.3 J | 0.3 | 0.6 | 0.5 | 0.4 |
| OTHER | Moisture (%) | | | 5 | 5.5 | 3.5 | 3.3 | 4.4 | 0.6 | 9.7 | 2.6 | 3.3 | 0.9 | 1.3 | 5.7 | 4 | 1.4 | 0.8 |
| | pH | | | 7.4 | 7.9 | 7.8 | 7.8 | 7.7 | 7.8 | 7.5 | 8 | 8 | 8 | 7.9 | 7.9 | 7.9 | 8.5 | 9.2 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-02 | | | | | RB-11-03 | | | RB-11-04 | | | RB-11-05 | | |
| | | | | 3-8 | 8-13 | 18-22 | 18-22 | 28-32 | 3-7 | 8-12 | 17-21 | 3-7 | 8-12 | 18-22 | 3-7 | 8-12 | 18-22 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | 0.006 | 0.007 | ND | ND | ND | 0.019 | ND | ND | 0.006 | 0.006 | 0.006 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | 0.018 | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | 0.013 | ND | ND | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | 0.77 | ND | 0.74 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | 8.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 7210 | 4350 | 5580 | 4480 | 9930 | 8250 | 7830 | 5130 | 10200 | 6110 | 4590 | 7760 | 8850 | 5260 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 97.4 | 113 | 77.2 | 37.3 | 161 | 89.7 | 127 | 78.1 | 159 | 84.7 | 42.5 | 125 | 975 | 91 |
| | Beryllium | 0.83 | 0.14 | 0.41 | 0.41 | 0.41 | 0.41 | 0.9 | 0.52 | 0.52 | 0.4 | 0.52 | 0.4 | 0.3 | 0.41 | 0.52 | 0.3 |
| | Cadmium | N/A | 38 | ND | ND | ND | ND | 0.67 | ND | 0.52 | ND | 6.2 | ND | 0.61 | ND | ND | 0.81 |
| | Calcium | 119000 | N/A | 41700 | 93400 | 29300 | 37800 | 25800 | 25900 | 58200 | 28300 | 32800 | 34700 | 38100 | 23400 | 77200 | 41600 |
| | Chromium, Total | 14.9 | 210 | 38.9 | 10.6 | 12.1 | 9.4 | 13.7 | 12.2 | 11.8 | 10 | 17.2 | 11.8 | 12 | 8.4 | 14.7 | 9.2 |
| | Cobalt | 11.3 | 4,700 | 6.4 | 4.9 | 7.1 | 7.5 | 9 | 7.4 J | 7.6 | 6.9 | 8 | 8 | 6.4 | 6.5 | 8 | 7 |
| | Copper | 135 | 2,800 | 70.8 | 43.9 | 94.2 | 193 | 178 | 24.9 | 22.7 | 108 | 35.6 | 28.8 | 41.6 | 24.6 | 24.9 | 72.6 |
| | Iron | 20900 | 23,000 | 12300 | 7390 | 11700 | 10600 | 15200 | 13500 | 14200 | 10800 | 13800 | 13800 | 10700 | 12300 | 14400 | 11200 |
| | Lead | 22.9 | 400 | 7.4 | 6.7 | 7.3 | 6.2 | 10.1 | 7.3 | 8.2 | ND | 80.2 | 5.9 | ND | 7.7 | 9.2 | 5.1 |
| | Magnesium | 8730 | N/A | 4920 | 2880 | 3810 | 3500 | 4910 | 5680 | 5460 | 3750 | 6420 | 4770 | 3800 | 5090 | 5970 | 4610 |
| | Manganese | 435 | 380 | 428 | 158 | 267 | 238 | 448 | 274 | 245 | 214 | 271 | 270 | 216 | 251 | 237 | 280 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | 8.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 21.7 | 9.9 | 37.2 | 10.9 | 33 | 10 | 12.1 | 17.8 | 17.9 | 15.8 | 13.9 | 11.1 | 12.1 | 15.7 |
| | Potassium | 2730 | N/A | 1180 | 593 | 857 | 810 | 2050 | 1420 | 1170 | 988 | 1820 | 1050 | 727 | 1330 | 1310 | 836 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 368 | 488 | 542 | 173 | 578 | 751 | 723 | 494 | 1090 | 441 | 324 | 583 | 727 | 392 |
| | Vanadium | 49.2 | 540 | 25.4 | 14.7 | 22 | 19.3 | 26 | 30.3 | 28.6 | 19.8 | 25.8 | 25 | 21.1 | 23.1 | 33.8 | 20.2 |
| | Zinc | 81.6 | 23,000 | 53.4 | 33.9 | 59.9 | 84.6 | 101 | 38.2 J | 37 | 60.7 | 42.1 | 38.3 | 32.9 | 35.5 | 38 | 54.4 |
| RAD (pCVg) | Gross Alpha | | | 2.4 | 7 | 17 | 20 | 17 | 14 | 7.5 | 12 | 19 | 20 | 13 | 16 | 22 | 16 |
| | Gross Beta | | | 2.2 | 17 | 26 | 28 | 23 | 23 J | 20 | 23 | 22 | 22 | 24 | 26 | 23 | 23 |
| | Radium-226 | | | 0.5 | 0.7 | 0.6 | 0.2 | 0.4 | 0.7 J | 0.5 | 0.6 | 0.9 | 0.7 | 0.7 | 0.6 | 0.3 | 0.8 |
| | Radium-228 | | | 0.8 | 0.5 | 0.4 | 0.3 | 0.4 | 0.5 J | 0.3 | 0.2 | 0.5 | 0.5 | 0.5 | 0.2 | 0.2 | 0.4 |
| OTHER | Moisture (%) | | | 3.3 | 2 | 2.2 | 2.4 | 10.8 | 4 | 4.7 | 1 | 4.5 | 1.1 | 0.9 | 2.5 | 3.5 | 1 |
| | pH | | | 8.3 | 8.2 | 8.9 | 7.8 | 8 | 8.1 J | 8.1 | 8.2 | 7.8 | 7.8 | 7.8 | 7.8 | 8 | 7.8 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-06 | | | RB-11-07 | | | RB-11-08 | | | RB-11-09 | | | RB-11-10 | |
| | | | | 3-7 | 8-12 | 18-22 | 3-7 | 8-12 | 18-22 | 3-7 | 8-12 | 18-22 | 3-7 | 8-11 | 18-22 | 3-7 | 8-12 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.007 | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | 0.54 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.61 | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | 11.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 8520 | 9570 | 2850 | 9560 | 6420 | 5840 | 6020 | 7460 | 6500 | 9100 | 8710 | 7450 | 7190 | 4700 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 209 | 153 | 44 J | 106 | 106 | 84.1 | 125 | 177 | 125 J | 211 | 216 J | 83.8 | 137 | 87.1 |
| | Beryllium | 0.83 | 0.14 | 0.52 | 0.52 | ND | 0.63 | 0.51 | 0.41 | 0.41 | 0.41 | 0.41 | 0.63 | 0.52 | 0.41 | 0.52 | 0.4 |
| | Cadmium | N/A | 38 | 0.62 | ND | ND UJ | ND | ND | ND | ND | 0.73 | ND UJ | ND | 1 U | ND | ND | ND |
| | Calcium | 119000 | N/A | 37600 | 42300 | 16400 | 27200 | 59400 | 25500 | 23900 | 44900 | 41100 | 31800 | 65800 | 25200 | 25100 | 42200 |
| | Chromium, Total | 14.9 | 210 | 11.4 | 10.8 | 42.8 | 12.8 | 9.6 | 12.3 | 9.1 | 11.8 | 12.8 | 12.5 | 13.1 | 10.1 | 8.7 | 7.7 |
| | Cobalt | 11.3 | 4,700 | 7.1 | 6.6 | 2.5 J | 8.8 J | 6.2 | 8.2 | 5.8 | 7.3 | 6.6 J | 7.7 | 7.4 J | 6.2 | 7 | 4.6 |
| | Copper | 135 | 2,800 | 68.3 | 38.2 | 186 J | 21.3 | 29.2 | 55.7 | 55.6 | 24.6 | 69.4 J | 36.1 | 96.2 J | 59.1 | 25.2 | 27.5 |
| | Iron | 20900 | 23,000 | 13800 | 13100 | 6710 | 14100 | 10300 | 11400 | 11600 | 13000 | 11800 | 14000 | 12500 | 11800 | 12800 | 8940 |
| | Lead | 22.9 | 400 | 9.8 | 9.2 | 5.1 | 6.4 | 9 | 6.2 | 10 | 9.6 | 6.7 | 8.4 | 7.1 | 6.1 | 8.5 | 5.9 |
| | Magnesium | 8730 | N/A | 5880 | 5740 | 2510 | 6420 | 4480 | 4710 | 4770 | 5810 | 5010 | 6230 | 5790 | 4360 | 5140 | 3750 |
| | Manganese | 435 | 380 | 301 | 238 | 150 | 306 | 229 | 265 | 247 | 278 | 296 | 335 | 251 | 252 | 270 | 187 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | 13.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 13.8 | 18.1 | 29.9 | 13.7 | 20.8 | 16.9 | 10.9 | 16.9 | 85.8 | 18.5 | 87.9 | 16.8 | 12.1 | 11.3 |
| | Potassium | 2730 | N/A | 1250 | 1540 | 551 | 1770 | 1190 | 1150 | 998 | 1080 | 982 | 1450 | 1670 | 1350 | 1160 | 729 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 895 | 844 | 209 J | 905 | 655 | 518 | 644 | 790 | 697 J | 968 | 771 J | 723 | 559 | 328 |
| | Vanadium | 49.2 | 540 | 25.2 | 26.4 | 12.3 | 32.4 | 21.3 | 20.7 | 22.1 | 24.3 | 21.3 | 24.5 | 25.9 | 22.7 | 24.7 | 17.4 |
| | Zinc | 81.6 | 23,000 | 56.5 | 41.3 | 75.6 J | 37.3 J | 34.7 | 44 | 47.7 | 38.2 | 55.6 J | 48.2 | 68.8 J | 45.7 | 37.2 | 30.6 |
| RAD (pCVg) | Gross Alpha | | | 29 | 18 | 12 UJ | 11 | 5.3 | 12 | 17 | 33 | 31 J | 15 | 21 J | 24 | 17 | 16 |
| | Gross Beta | | | 20 | 18 | 23 J | 22 J | 19 | 24 | 20 | 28 | 25 J | 23 | 21 J | 21 | 22 | 20 |
| | Radium-226 | | | 0.4 | 0.8 | 0.6 J | 0.4 J | 0.8 | 0.2 | 0.5 | 0.5 | 0.4 J | 0.6 | 0.6 J | 0.7 | 0.5 | 0.4 |
| | Radium-228 | | | 0.3 | 0.3 | 0.3 J | 0.4 J | 0.5 | 0.4 | 0.2 | 0.3 | 0.2 UJ | 0.2 | 0.4 J | 0.3 | 0.3 | 0.6 |
| OTHER | Moisture (%) | | | 3.4 | 4.1 | 0.7 | 4.1 | 2.8 | 3 | 2.7 | 3.6 | 2.5 | 4.3 | 4 | 2.8 | 4.2 | 1 |
| | pH | | | 7.9 | 7.8 | 7.9 | 8.2 | 8.1 | 8.1 | 8 | 8.1 | 8.1 | 7.8 | 8 | 8 | 8 | 7.9 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-11 | | | RB-11-12 | | | RB-11-13 | | | RB-11-14 | | | RB-11-15 | | |
| | | | | 1-7 | 8-12 | 18-24 | 3-7 | 8-12 | 18-24 | 1-9 | 9-13 | 17-21 | 1-7 | 8-12 | 18-22 | 3-7 | 8-12 | 18-24 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | 0.01 | 0.011 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.006 | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 7850 | 12000 | 9150 | 8370 | 5190 | 6830 | 5180 | 6100 | 3610 | 11500 | 9700 | 4980 | 7440 | 8980 | 5430 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 108 | 115 | 180 | 68.6 | 79.2 | 93.3 | 156 | 139 J | 28.5 | 174 | 100 | 48.9 | 165 | 390 | 53.9 |
| | Beryllium | 0.83 | 0.14 | 0.51 | 0.63 | 0.52 | 0.52 | 0.31 | 0.52 | 0.3 | 0.41 J | ND | 0.52 | 0.42 | 0.3 | 0.41 | 0.41 | 0.31 |
| | Cadmium | N/A | 38 | ND | ND | ND | 0.62 | 0.52 | ND | 0.71 | 0.93 U | ND | 0.83 | ND | 0.51 | 0.62 | 0.62 | ND |
| | Calcium | 119000 | N/A | 35300 | 34600 | 30600 | 35800 | 43700 | 34200 | 48600 | 52000 | 14300 | 95200 | 59700 | 31900 | 42100 | 39700 | 28800 |
| | Chromium, Total | 14.9 | 210 | 11 | 17 | 13.5 | 10.5 | 9.4 | 8.7 | 7.3 | 8.7 | 6.5 | 10.5 | 15.3 | 10.1 | 10.2 | 19.4 | 12.5 |
| | Cobalt | 11.3 | 4,700 | 6.7 | 10.7 | 7.5 | 5.9 | 6.3 | 6.1 | 4 | 6.5 J | 4.7 | 9.1 | 9.1 | 6 | 6.8 | 9.1 | 8.1 |
| | Copper | 135 | 2,800 | 29.2 | 23.8 | 105 | 29.2 | 58.4 | 35.3 | 38.4 | 32.9 J | 51.4 | 36.1 | 35.5 | 98 | 19.4 | 26.9 | 48.5 |
| | Iron | 20900 | 23,000 | 13300 | 16100 | 14300 | 13700 | 9360 | 11500 | 8140 | 10300 | 6810 | 13200 | 13700 | 10200 | 12200 | 13300 | 11600 |
| | Lead | 22.9 | 400 | 8.5 | 7.4 | 6.7 | 5.2 | 10.8 | 6.4 | 6.7 | 6.2 | ND | 7.7 | ND | 6.7 | 9.6 | 5.9 | ND |
| | Magnesium | 8730 | N/A | 5960 | 6290 | 4650 | 6580 | 3920 | 4590 | 4270 | 4890 | 3150 | 5000 | 6300 | 4390 | 6130 | 6530 | 4730 |
| | Manganese | 435 | 380 | 263 | 389 | 282 | 275 | 223 | 270 | 229 | 245 | 191 | 237 | 247 | 250 | 260 | 277 | 249 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 16.9 | 19.5 | 16.4 | 11.5 | 14.5 | 14.4 | 13.8 | 15.9 | 12.6 | 11.6 | 36.5 | 20.5 | 14.2 | 29.2 | 29 |
| | Potassium | 2730 | N/A | 1550 | 2250 | 1530 | 1790 | 795 | 1170 | 1760 | 986 J | 557 | 2540 | 1760 | 911 | 1240 | 1520 | 799 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 565 | 961 | 779 | 685 | 537 | 811 | 97.7 | 191 J | 207 | 128 | 778 | 330 | 568 | 493 | 146 |
| | Vanadium | 49.2 | 540 | 33.9 | 32.6 | 28.5 | 29.5 | 19.2 | 21.6 | 19 | 20.1 J | 11.6 | 34.6 | 30 | 18.9 | 28.3 | 28.2 | 21 |
| | Zinc | 81.6 | 23,000 | 42.4 | 39.6 | 60.5 | 41.8 | 44.2 | 42.9 | 38.1 | 37.4 J | 37 | 44.5 | 39.7 | 58.7 | 33.9 | 35.2 | 39.3 |
| RAD (pCVg) | Gross Alpha | | | 19 | 13 | 19 | 16 | 23 | 27 | 19 | 30 J | 19 | 15 | 29 | 23 | 20 | 12 | 19 |
| | Gross Beta | | | 23 | 27 | 29 | 26 | 27 | 25 | 26 | 31 | 31 | 23 | 30 | 25 | 26 | 24 | 24 |
| | Radium-226 | | | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | 0.9 | 0.6 J | 0.5 | 0.7 | 0.8 | 1.0 | 1.2 | 0.6 | 0.7 |
| | Radium-228 | | | ND | 0.5 | 0.3 | 0.4 | ND | 0.4 | 0.3 | 0.4 J | 0.2 | 0.4 | 0.3 | 0.4 | 0.7 | 0.2 | 0.3 |
| OTHER | Moisture (%) | | | 2.1 | 4.9 | 3.8 | 3.8 | 3.3 | 3.5 | 1.6 | 3 | 0.9 | 3.8 | 4.3 | 1.3 | 3.4 | 3.5 | 2.6 |
| | pH | | | 8 | 7.8 | 8.2 | 8.1 | 7.9 | 8 | 7.7 | 7.7 | 8 | 7.7 | 7.8 | 8 | 8 | 7.9 | 7.8 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-16 | | | | | RB-11-17 | | | | | RB-11-18 | | | | |
| | | | | 3-7 | 8-12 | 13-21 | 21-25 | 28-30 | 3-7 | 8-12 | 13-18 | 18-23 | 28-32 | 1-7 | 7-11 | 13-17 | 18-22 | 28-32 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 | 0.008 | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.052 | 0.031 | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.019 | 0.009 | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.052 | 0.032 | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | 0.56 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | 1.2 | ND | ND | 0.62 | ND | ND | ND | ND | 0.93 | ND | ND | ND | 1.8 |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 8450 | 9160 | 6750 | 7230 | 5380 | 9130 | 8200 | 7250 | 5550 | 5980 | 8730 | 8840 | 4250 | 4790 | 3760 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 210 | 199 | 91.3 | 91 | 70.4 | 204 | 213 | 100 | 54.9 | 91.2 | 195 | 101 | 79 | 52.8 | 96.7 |
| | Beryllium | 0.83 | 0.14 | 0.52 | 0.51 | 0.51 | 0.51 | 0.41 | 0.62 | 0.51 | 0.51 | 0.41 | 0.42 | 0.52 | 0.52 | 0.3 | 0.3 | 0.31 |
| | Cadmium | N/A | 38 | ND | 0.51 | ND | ND | 0.61 | ND | ND | 0.51 | ND | ND | ND | ND | 0.61 | ND | ND |
| | Calcium | 119000 | N/A | 41200 | 60500 | 37500 | 33300 | 43100 | 52600 | 39500 | 42400 | 45000 | 51000 | 88000 | 31400 | 35600 | 23000 | 37800 |
| | Chromium, Total | 14.9 | 210 | 10.4 | 16.2 | 18.5 | 11.4 | 9.2 | 10.6 | 15.1 | 14.5 | 10.9 | 9.4 | 10 | 16.8 | 189 | 13.1 | 7.7 |
| | Cobalt | 11.3 | 4,700 | 7.1 | 9.3 | 8.3 | 7.2 | 6 | 7.5 | 8.6 | 9.9 | 8 | 5.4 | 6.6 | 8.9 | 6.2 | 7.2 | 5.3 |
| | Copper | 135 | 2,800 | 27.5 | 51.7 | 239 | 74.2 | 1210 | 28.5 | 60.9 | 63.1 | 70 | 28.3 | 295 | 20.8 | 51.5 | 217 | 74.4 |
| | Iron | 20900 | 23,000 | 13900 | 12900 | 15800 | 11800 | 11200 | 13700 | 14000 | 15700 | 12200 | 2750 | 12600 | 16400 | 14300 | 10800 | 9360 |
| | Lead | 22.9 | 400 | ND | 7.6 | 6.8 | 5.9 | ND | ND | ND | ND | ND | ND | 6.1 | 7.2 | 5.8 | 5.1 | ND |
| | Magnesium | 8730 | N/A | 7030 | 6330 | 5070 | 4060 | 4430 | 5180 | 5170 | 5540 | 4500 | 3350 | 5090 | 6570 | 4320 | 3970 | 3020 |
| | Manganese | 435 | 380 | 300 | 271 | 327 | 258 | 234 | 245 | 260 | 284 | 221 | 157 | 201 | 330 | 303 | 211 | 234 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 69.6 | ND | ND |
| | Nickel | 54.4 | 1,500 | 12.7 | 37.6 | 48.1 | 17.3 | 15.3 | 13.2 | 35.7 | 31.4 | 20.1 | 17.6 | 14.3 | 18 | 18.8 | 11 | 12.1 |
| | Potassium | 2730 | N/A | 1870 | 1630 | 1010 | 992 | 921 | 1210 | 1310 | 1080 | 1070 | 684 | 1610 | 1230 | 927 | 684 | 565 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 474 | 706 | 524 | 643 | 442 | 253 | 249 | 223 | 186 | 300 | 103 | 466 | 206 | 209 | 252 |
| | Vanadium | 49.2 | 540 | 34.7 | 29 | 27 | 22.6 | 21.8 | 34 | 30.1 | 29.2 | 21.6 | 18.2 | 26.8 | 28.1 | 28.2 | 19.6 | 22 |
| | Zinc | 81.6 | 23,000 | 44.4 | 48.2 | 118 | 49.3 | 451 | 41.4 | 49.8 | 53.8 | 55.8 | 31.1 | 125 | 40.2 | 45.1 | 98.3 | 45.1 |
| RAD (pCVg) | Gross Alpha | | | 31 | 16 | 22 | 5.2 | 13 | 4.1 | 14 | 14 | 15 | 21 | 21 | 20 | 18 | 9 | 19 |
| | Gross Beta | | | 27 | 18 | 22 | 19 | 23 | 2.4 | 22 | 23 | 23 | 30 | 23 | 22 | 26 | 23 | 25 |
| | Radium-226 | | | 0.6 | 0.4 | 0.5 | 0.2 | 0.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.9 |
| | Radium-228 | | | 0.4 | 0.4 | 0.2 | 0.3 | 0.3 | 0.3 | 0.5 | 0.4 | 0.6 | 0.4 | 0.7 | 0.4 | 0.4 | 0.8 | 0.3 |
| OTHER | Moisture (%) | | | 3.1 | 2.5 | 1.5 | 1.2 | 1.6 | 3 | 2.2 | 2 | 1.3 | 4.2 | 3.9 | 3.9 | 0.9 | 1.6 | 1.7 |
| | pH | | | 8.5 | 8.2 | 8.9 | 8.9 | 8.7 | 8.3 | 8.2 | 8.6 | 8.8 | 3.5 | 8.1 | 8.3 | 8.5 | 8.6 | 8.4 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-19 | | | | | RB-11-20 | | | | | RB-11-21 | | | | |
| | | | | 3-7 | 8-12 | 13-19 | 19-23 | 28-33 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | ND | 0.005 | 0.005 | 0.005 | 0.005 | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.005 | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | 0.51 | ND | ND | ND | ND | ND | 0.36 | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.1 | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 8040 | 10300 | 7050 | 8800 | 5150 | 5660 | 7750 | 6500 | 5000 | 3870 | 4980 | 6830 | 5090 | 4390 | 5210 |
| | Antimony | N/A | 31 | 28.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 21.3 | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 329 | 178 | 63.7 | 200 | 110 | 178 | 144 | 137 | 58.1 | 54.1 | 168 | 131 | 111 | 48.8 | 188 |
| | Beryllium | 0.83 | 0.14 | 0.52 | 0.62 | 0.51 | 0.51 | 0.51 | 0.41 | 0.52 | 0.41 | 0.3 | 0.4 | 0.51 | 0.41 | 0.4 | .31 | 0.42 |
| | Cadmium | N/A | 38 | 0.73 | ND | 0.51 | 0.92 | ND | ND | ND | ND | ND | ND | ND | ND | 0.81 | ND | ND |
| | Calcium | 119000 | N/A | 107000 | 28800 | 23300 | 41000 | 37100 | 37500 | 45300 | 76900 | 50100 | 29900 | 131000 | 56500 | 48600 | 29700 | 50900 |
| | Chromium, Total | 14.9 | 210 | 8.6 | 23.7 | 23.6 | 22.3 | 11.7 | 7.5 | 15.2 | 34.3 | 11.4 | 10 | 6.8 | 12.8 | 16.1 | 23.2 | 9 |
| | Cobalt | 11.3 | 4,700 | 5.9 | 11.6 | 9.8 | 7.8 | 6.7 | 5.3 | 7.8 | 7.7 | 8.7 | 5.3 | 5.4 | 6.6 | 6.1 | 7.5 J | 5.6 |
| | Copper | 135 | 2,800 | 47.8 | 32 | 68.5 | 61.8 | 270 | 50.2 | 61.8 | 54.1 | 95.4 | 127 | 30.7 | 107 | 112 | 259 | 89.7 |
| | Iron | 20900 | 23,000 | 11700 | 18300 | 17200 | 15100 | 11900 | 11400 | 13300 | 13500 | 10700 | 9700 | 8930 | 11200 | 11500 | 13400 | 11200 |
| | Lead | 22.9 | 400 | 5.5 | 8.8 | ND | 8.1 | ND | 6.6 | 6.2 | 8.1 | 5.6 | ND | ND | 5.3 | ND | 6.2 | ND |
| | Magnesium | 8730 | N/A | 6100 | 8810 | 6510 | 6020 | 3930 | 4870 | 5610 | 5600 | 4640 | 2750 | 4310 | 4450 | 5700 | 4160 | 3870 |
| | Manganese | 435 | 380 | 204 | 380 | 304 | 275 | 253 | 213 | 246 | 270 | 259 | 292 | 266 | 235 | 225 | 249 J | 308 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 10.9 | 21.4 | 21.4 | 449 | 26.2 | 11 | 20.4 | 23.3 | 18.1 | 16.6 | 11.4 | 29.9 | 13.1 | 19.6 J | 26 |
| | Potassium | 2730 | N/A | 1370 | 1540 | 1190 | 1510 | 916 | 1010 | 1110 | 1230 | 1050 | 701 | 649 | 1370 | 783 | 824 | 779 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 345 | 352 | 208 | 270 | 182 | 121 | 451 | 221 | 284 | 275 | 167 | 123 | 170 | 148 J | 469 |
| | Vanadium | 49.2 | 540 | 24.8 | 34.8 | 32 | 30.8 | 21.8 | 25.2 | 24.9 | 26.5 | 20.2 | 19.1 | 19.9 | 21.8 | 20.3 | 24.6 | 26.5 |
| | Zinc | 81.6 | 23,000 | 41 | 47.5 | 51.5 | 53.1 | 114 | 40.5 | 50.4 | 41.8 | 56.2 | 64.7 | 29.5 | 59 | 60.5 | 112 | 58.2 |
| RAD (pCVg) | Gross Alpha | | | 19 | 16 | 16 | 12 | 21 | 19 | 13 | 20 | 26 | 8.8 | 14 | 7.9 | 13 | 14 UJ | 18 |
| | Gross Beta | | | 25 | 21 | 21 | 26 | 27 | 25 | 19 | 24 | 23 | 21 | 21 | 22 | 23 | 25 J | 24 |
| | Radium-226 | | | 0.4 | 0.5 | 0.4 | 0.6 | 0.8 | 0.4 | 0.3 | 0.4 | 0.3 | 0.6 | 1.8 | 0.6 | 0.6 | 1 J | 0.6 |
| | Radium-228 | | | 0.4 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.3 | 0.3 | 0.5 J | 0.3 |
| OTHER | Moisture (%) | | | 4.4 | 3.1 | 1.8 | 2.7 | 1.5 | 1.6 | 3.5 | 2.1 | 1.3 | 1.2 | 1.6 | 1.6 | 1.2 | 1.9 | 4 |
| | pH | | | 8.1 | 8.4 | 8.4 | 8.2 | 8.3 | 8 | 8 | 8 | 8 | 7.8 | 8.1 | 8.1 | 8.3 | 8.4 | 7.8 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-22 | | | | | RB-11-23 | | | | | RB-11-24 | | | | |
| | | | | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | 0.006 | 0.007 | 0.005 J | 0.005 | 0.007 | ND | ND | ND | 0.006 | 0.007 | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | 0.038 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | 0.035 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | ND | 0.74 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | 7.07 | 7.4 | ND | ND | 8.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 6990 | 6070 | 6460 | 4480 | 9930 | 8140 | 8370 | 6680 | 5970 | 6470 | 8190 | 5530 | 4250 | 7140 | 3990 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 192 | 175 | 117 | 37.3 | 161 | 338 | 160 | 76.4 | 77.2 | 124 | 138 | 83.7 | 51 | 146 | 96.3 |
| | Beryllium | 0.83 | 0.14 | 0.53 | 0.42 | 0.41 | 0.41 | 0.9 | 0.52 | 0.52 | 0.4 | 0.4 | 0.51 | 0.63 | 0.41 | 0.4 | 0.51 | 0.41 |
| | Cadmium | N/A | 38 | ND | 0.84 | ND | ND | 0.67 | ND | ND | 0.5 | ND | ND | 0.52 | ND | ND | ND | ND |
| | Calcium | 119000 | N/A | 92100 | 43800 | 36100 | 37800 | 25800 | 39500 | 44500 | 21200 | 24200 | 26800 | 27400 | 33800 | 50000 | 48500 | 12700 |
| | Chromium, Total | 14.9 | 210 | 11.6 | 9.4 | 14.5 | 9.4 | 13.7 | 10.2 | 15.6 | 16.6 | 14.7 | 9.7 | 12.3 | 10.5 | 13.5 | 13.1 | 5.4 |
| | Cobalt | 11.3 | 4,700 | 6.2 | 7.7 | 7.7 | 7.5 | 9 | 8 | 9.4 | 10.2 | 8.2 | 7.2 | 6.5 | 7.3 | 6.5 | 7.4 | 5.4 |
| | Copper | 135 | 2,800 | 26.6 | 30.8 | 88.3 | 193 | 178 | 58.2 | 80.1 | 138 | 150 | 97.2 | 67 | 39.1 | 435 | 190 | 90.4 |
| | Iron | 20900 | 23,000 | 10400 | 11500 | 11800 | 10600 | 15200 | 12000 | 14600 | 13500 | 13600 | 12700 | 12800 | 12600 | 10700 | 12100 | 7960 |
| | Lead | 22.9 | 400 | 5.9 | 10.1 | 7.2 | 6.2 | 10.1 | ND | 6.8 | 5.5 | 5.6 | 5.8 | 7.8 | ND | ND | 5.6 | ND |
| | Magnesium | 8730 | N/A | 5180 | 5040 | 5350 | 3500 | 4910 | 5820 | 6060 | 5930 | 5330 | 3770 | 5440 | 4560 | 3580 | 4930 | 2880 |
| | Manganese | 435 | 380 | 177 | 257 | 290 | 238 | 448 | 261 | 268 | 303 | 267 | 279 | 212 | 293 | 266 | 246 | 180 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.57 | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 10.8 | 13.9 | 150 | 10.9 | 33 | 10.6 | 17.2 | 24.6 | 34.1 | 12.3 | 27.1 | 12.8 | 13.2 | 44.2 | 10.5 |
| | Potassium | 2730 | N/A | 1180 | 1040 | 1270 | 810 | 2050 | 1270 | 1490 | 1180 | 1090 | 1200 | 1590 | 903 | 742 | 1420 | 919 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 391 | 344 | 216 | 173 | 578 | 299 | 422 | 299 | 305 | 365 | 414 | 322 | 242 | 243 | 413 |
| | Vanadium | 49.2 | 540 | 23.5 | 23.8 | 21.8 | 19.3 | 25 | 23.9 | 31.4 | 24.9 | 25 | 24 | 28.1 | 21.9 | 19.1 | 24.9 | 16.9 |
| | Zinc | 81.6 | 23,000 | 30.7 | 37 | 55 | 84.6 | 101 | 47.9 | 58.8 | 74.6 | 76.9 | 58.5 | 50.1 | 37.7 | 164 | 91.5 | 48.7 |
| RAD (pCVg) | Gross Alpha | | | 23 | 11 | 15 | 20 | 17 | 20 | 13 | 12 | 15 | 30 | 23 | 19 | 21 | 26 | 16 |
| | Gross Beta | | | 23 | 22 | 21 | 28 | 23 | 28 | 19 | 24 | 23 | 19 | 22 | 22 | 26 | 23 | 22 |
| | Radium-226 | | | 0.5 | 0.8 | 0.6 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.8 | 0.5 |
| | Radium-228 | | | 0.4 | 0.5 | 0.4 | 0.3 | 0.4 | 0.6 | 0.2 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.5 | 0.5 | 0.4 |
| OTHER | Moisture (%) | | | 5.2 | 4.2 | 2 | 2.4 | 10.8 | 3.4 | 4.7 | 0.9 | 1.2 | 2.3 | 4.3 | 2.1 | 1.1 | 1.8 | 2.3 |
| | pH | | | 7.9 | 7.9 | 7.8 | 7.8 | 8 | 8 | 7.9 | 7.9 | 7.9 | 8 | 7.9 | 7.9 | 8 | 7.9 | 7.9 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-25 | | | | | RB-11-26 | | | | | RB-11-27 | | | | |
| | | | | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.008 | ND | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | 0.006 | 0.006 | ND | ND | ND | 0.008 | 0.008 | ND | 0.010 U | 0.008 | 0.009 | 0.008 | 0.007 | 0.007 | 0.008 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.029 | ND | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | 0.006 | 0.006 | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.008 | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.029 | ND | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.39 | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | 0.44 | 0.9 | ND | 0.86 | ND | ND | ND | ND | 1 | ND | ND | ND | ND | 1.8 |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | 9.8 | 13.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 7930 | 7490 | 6810 | 5570 | 4310 | 9810 | 10800 | 10500 | 6200 | 8740 | 11100 | 7530 | 5860 | 4800 | 8940 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND R | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 287 | 448 | 152 | 50.9 | 95 | 233 | 146 | 167 | 87.9 J | 112 | 356 | 402 | 59.1 | 52.9 | 78.3 |
| | Beryllium | 0.83 | 0.14 | 0.52 | 0.63 | 0.51 | 0.4 | 0.41 | 0.51 | 0.62 | 0.52 | 0.3 | 0.64 | 0.63 | 0.41 | 0.4 | 0.3 | 0.63 |
| | Cadmium | N/A | 38 | ND | ND | 0.61 | ND | ND | 1 | 0.62 | 0.83 | 0.61 J | 0.74 | 0.84 | 0.71 | ND | 0.71 | ND |
| | Calcium | 119000 | N/A | 63600 | 69900 | 47300 | 22000 | 22000 | 59100 | 22800 | 44500 | 35800 | 48700 | 65700 | 72600 | 34400 | 23000 | 27500 |
| | Chromium, Total | 14.9 | 210 | 9.7 | 13 | 14.3 | 14.5 | 7.7 | 12.4 | 13.1 | 17.3 | 13.7 | 11.7 | 12.4 | 14.1 | 11.7 | 11.4 | 16.8 |
| | Cobalt | 11.3 | 4,700 | 7 | 7.8 | 6.7 | 8 | 6.1 | 7.9 | 9.6 | 10.1 | 7.3 | 8.7 | 7.2 | 8.5 | 8.5 | 7.7 | 8.2 |
| | Copper | 135 | 2,800 | 30.8 | 72.9 | 170 | 154 | 106 | 57.3 | 582 | 156 | 281 | 145 | 31.4 | 38.9 | 78.5 | 83.4 | 70 |
| | Iron | 20900 | 23,000 | 12300 | 12600 | 12400 | 12000 | 8620 | 14200 | 15500 | 16500 | 12200 | 13000 | 13800 | 12500 | 11800 | 9490 | 13300 |
| | Lead | 22.9 | 400 | 6.6 | ND | 7.1 | 5.1 | ND | 9.6 | 10.3 | 7.3 | 5.3 | 6.2 | 7.9 | 5.3 | 5 | 5.6 | 7.9 |
| | Magnesium | 8730 | N/A | 6000 | 5540 | 4940 | 5150 | 3370 | 5870 | 5620 | 6090 | 4560 | 4390 | 5700 | 6870 | 5260 | 4470 | 4420 |
| | Manganese | 435 | 380 | 230 | 228 | 275 | 271 | 198 | 297 | 397 | 321 | 252 | 250 | 238 | 232 | 265 | 222 | 273 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.11 | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 10 | 17.5 | 48.9 | 35.1 | 47.8 | 54.6 | 49.5 | 109 | 221 | 52.5 | 12.4 | 40 | 22.7 | 22.3 | 65.9 |
| | Potassium | 2730 | N/A | 1150 | 1050 | 1220 | 967 | 819 | 1910 | 2980 | 2220 | 1180 J | 1760 | 1790 | 979 | 1300 | 856 | 1730 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 322 | 303 | 258 | 286 | 411 | 311 | 134 | 196 | 136 J | 344 | 519 | 379 | 263 | 226 | 507 |
| | Vanadium | 49.2 | 540 | 31.8 | 29 | 24.6 | 21.7 | 16.6 | 30.1 | 29 | 34.1 | 22.7 | 28 | 28.3 | 30.6 | 20.2 | 16.9 | 25.3 |
| | Zinc | 81.6 | 23,000 | 37.2 | 52.6 | 76 | 72.5 | 59.1 | 48.9 | 54.6 | 81 | 118 | 78 | 38.2 | 35.9 | 53.2 | 48.3 | 52.4 |
| RAD (pCVg) | Gross Alpha | | | 19 | 14 | 21 | 13 | 13 | 25 | 22 | 14 | 14 UJ | 14 | 28 | 42 | 28 | 37 | 11 |
| | Gross Beta | | | 20 | 24 | 22 | 29 | 28 | 21 | 27 | 24 | 17 | 22 | 20 | 24 | 35 | 28 | 23 |
| | Radium-226 | | | 0.7 | 0.3 | 0.6 | 0.4 | 0.5 | 0.8 | 0.7 | 0.5 | 0.5 J | 0.4 | 0.5 | 0.4 | 0.4 | 0.6 | 0.4 |
| | Radium-228 | | | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.3 | 0.5 J | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 |
| OTHER | Moisture (%) | | | 3.1 | 4.6 | 1.8 | 1.1 | 2.2 | 2.9 | 3.9 | 3.5 | 1.2 | 5.7 | 4.5 | 2 | 0.6 | 1.4 | 5.2 |
| | pH | | | 7.9 | 7.8 | 8 | 7.9 | 7.8 | 7.9 | 7.6 | 7.9 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.7 | 7.8 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-28 | | | | | RB-11-29 | | | | | RB-11-30 | | | | | |
| | | | | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND UJ | ND | ND UJ | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | 0.007 | ND | ND | ND | ND | 0.011 | ND | ND | ND | ND |
| | Methylene Chloride | 0.005 | 11 | 0.008 | 0.007 | 0.01 U | 0.007 | 0.01 U | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | 0.03 | ND | ND | ND | ND | 0.045 | ND | ND | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | 0.008 | ND | ND | ND | ND | 0.011 | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | 0.027 | ND | ND | ND | ND | 0.04 | ND | ND | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | 0.5 | 0.48 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 9270 | 7440 | 5140 | 5570 | 6920 | 9950 | 9990 | 6610 | 5590 | 3300 | 100000 | 7170 | 6380 | 3990 | 5510 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 127 | 250 | 145 | 74.4 | 140 | 165 | 103 | 170 | 60.7 | 82.5 | 203 | 143 | 129 | 45.4 | 78.2 |
| | Beryllium | 0.83 | 0.14 | 0.5 | 0.4 | 0.3 | 0.4 | 0.51 | 0.62 | 0.52 | 0.4 | 0.3 | 0.4 | 0.73 | 0.51 | 0.61 | 0.3 | 0.3 |
| | Cadmium | N/A | 38 | 0.81 | 0.81 | 0.61 J | 0.8 | 0.82 J | 0.73 | 0.83 | 0.51 U | ND | 0.8 | ND | ND | 2 | 0.81 | 0.91 |
| | Calcium | 119000 | N/A | 36500 | 56200 | 51600 | 52500 | 40400 | 37700 | 45800 | 21600 | 64800 | 72300 | 47100 | 29700 | 37600 | 39000 | 39500 |
| | Chromium, Total | 14.9 | 210 | 11.9 | 16.3 | 11 | 13.5 | 9.7 | 10.5 | 11.7 | 9.8 J | 9.1 | 6.4 | 12.3 | 11.3 | 1130 | 9.3 | 23.7 |
| | Cobalt | 11.3 | 4,700 | 6.9 | 8.7 | 6.6 | 7.5 | 5.9 | 8.2 | 7.1 | 7.2 J | 6.6 | 3.3 | 8.6 | 7.7 | 8.9 | 4.9 | 7.4 |
| | Copper | 135 | 2,800 | 106 | 129 | 168 | 181 | 77.3 | 38.4 | 40.8 | 52.2 J | 171 | 280 | 49.3 | 33.8 | 139 | 125 | 168 |
| | Iron | 20900 | 23,000 | 12800 | 13800 | 9290 | 13800 | 11600 | 13200 | 13100 | 9860 | 9320 | 7760 | 14300 | 11700 | 45300 | 7320 | 9550 |
| | Lead | 22.9 | 400 | 9.1 | 6.7 | 6.1 | 6.9 | 6.2 | 8.4 | 5.8 | 8.5 | 7.2 | ND | 7.2 | 7.8 | 7.4 | 5.7 | ND |
| | Magnesium | 8730 | N/A | 4540 | 6220 | 4680 | 4830 | 3920 | 5790 | 5390 | 4240 | 4760 | 18200 | 4840 | 4550 | 4650 | 3500 | 4550 |
| | Manganese | 435 | 380 | 254 | 248 | 304 | 244 | 210 | 322 | 220 | 377 | 242 | 475 | 325 | 318 | 516 | 216 | 304 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | 0.11 | 0.22 | ND | ND | 0.17 | 0.1 | 0.11 | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 429 | ND | ND |
| | Nickel | 54.4 | 1,500 | 104 | 86.1 | 306 | 36.6 | 30.3 | 12.7 | 15.7 | 67.9 J | 12.6 | 14.5 | 12 | 109 | 232 | 94 | 32 |
| | Potassium | 2730 | N/A | 2870 | 1510 | 964 | 1030 | 1200 | 1550 | 2050 | 1740 J | 1020 | 709 | 1850 | 2190 | 1430 | 706 | 907 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 101 | 456 | 314 J | 424 | 680 | 311 | 291 | 140 | 239 | 218 | 99.7 | 85.3 | 168 | 170 | 338 |
| | Vanadium | 49.2 | 540 | 25.8 | 30.1 | 19.8 | 24.6 | 22.3 | 26.6 | 28.2 | 17.9 | 19.2 | 15.1 | 27 | 22.6 | 100 | 14.3 | 19.5 |
| | Zinc | 81.6 | 23,000 | 64.1 | 67.5 | 79.2 J | 87.3 | 58.3 | 48.6 | 41.4 | 50.7 | 85.2 | 123 | 45.5 | 40.3 | 68.8 | 63.1 | 78.2 |
| RAD (pCVg) | Gross Alpha | | | 13 | 15 | 11 U | 16 | 13 UJ | 22 | 13 | 6.6 UJ | 9.6 | 29 | 14 | 27 | 2.5 | 20 | 17 |
| | Gross Beta | | | 24 | 24 | 25 | 14 | 21 | 24 | 21 | 24 J | 17 | 22 | 28 | 27 | 2.5 | 25 | 27 |
| | Radium-226 | | | 0.6 | 0.7 | 0.8 J | 0.7 | 0.7 J | 0.6 | 0.9 | 0.7J | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.6 | 0.5 |
| | Radium-228 | | | 0.3 | 0.4 | 0.4 J | 0.2 | 0.3 J | 0.4 | 0.4 | 0.3 J | 0.3 | 0.2 | 0.4 | 0.4 | 0.5 | 0.4 | 0.2 |
| OTHER | Moisture (%) | | | 0.9 | 1 | 1 | 0.5 | 2.6 | 3.7 | 4 | 1.2 | 1 | 0.6 | 4.2 | 1.5 | 1.6 | 0.7 | 1.5 |
| | pH | | | 7.7 | 8 | 8 | 7.9 | 7.8 | 8 | 8 | 7.8 | 7.8 | 8 | 7.7 | 7.7 | 7.8 | 8.1 | 8 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-31 | | | | | RB-11-32 | | | | | RB-11-33 | | | | |
| | | | | 3-7 | 8-12 | 13-17 | 18-22 | 28-34 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 3-7 | 8-12 | 13-17 | 18-22 | 28-34 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.011 | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | 0.009 | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | 0.17 | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.035 | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.01 | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.038 | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | 0.34 | ND | ND | ND | 0.36 | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | 8.4 | ND | ND | ND | ND | ND | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 12300 | 7730 | 5460 | 3990 | 3270 | 8130 | 6450 | 4440 | 7520 | 4860 | 5470 | 7180 | 6180 | 5390 | 4730 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 257 | 106 | 91.2 | 27.5 | 102 | 121 | 241 | 43.2 | 84.5 | 142 | 243 | 231 | 131 | 61 | 83 |
| | Beryllium | 0.83 | 0.14 | 0.73 | 0.51 | 0.3 | 0.3 | ND | 0.51 | 0.41 | 0.3 | 0.5 | 0.41 | 0.31 | 0.42 | 0.41 | 0.3 | 0.4 |
| | Cadmium | N/A | 38 | 0.73 | ND | ND | 0.6 | 0.93 | 0.72 | ND | ND | 0.81 | ND | 0.92 | 0.73 | 0.62 | 0.71 | ND |
| | Calcium | 119000 | N/A | 54100 | 44800 | 25400 | 30700 | 145000 | 24000 | 38300 | 32800 | 32300 | 25000 | 73700 | 69000 | 33100 | 29900 | 27000 |
| | Chromium, Total | 14.9 | 210 | 12.9 | 33.7 | 9.7 | 5.7 | 16.4 | 9.8 | 11.8 | 9.4 U | 13.5 | 7.1 | 6.7 | 12.7 | 9.5 | 11.5 | 9.5 |
| | Cobalt | 11.3 | 4,700 | 7.9 | 6.4 | 6.5 | 4.8 | 2.4 | 8.1 | 7.5 | 5.5 | 8.7 | 5.7 | 4.4 | 6.7 | 5.8 | 7.6 | 5.1 |
| | Copper | 135 | 2,800 | 90.7 | 76.2 | 81.1 | 129 | 69.5 | 60.8 | 43.4 | 155 | 51.6 | 171 | 69.2 | 24.6 | 68.8 | 145 | 35.1 |
| | Iron | 20900 | 23,000 | 13500 | 12000 | 9720 | 7390 | 5990 | 12100 | 10000 | 9700 | 13800 | 9960 | 7930 | 10800 | 10200 | 10100 | 8610 |
| | Lead | 22.9 | 400 | 8 | 7.5 | 6.6 | 5.2 | ND | 8.6 | 7.2 | ND | ND | 5.4 | 5.7 | 6.4 | 8.2 | 5.1 | ND |
| | Magnesium | 8730 | N/A | 6300 | 5820 | 5040 | 3600 | 3250 | 4810 | 4960 | 3870 | 5450 | 3130 | 4920 | 6490 | 5430 | 5140 | 3250 |
| | Manganese | 435 | 380 | 276 | 265 | 246 | 197 | 379 | 279 | 240 | 229 | 297 | 210 | 170 | 228 | 246 | 259 | 198 |
| | Mercury | N/A | 23 | ND | 0.1 | 0.1 | 0.42 | ND | 0.17 | ND | ND | ND | ND | ND | 0.21 | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | 6.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 14.8 | 25.3 | 14.8 | 9.7 | 131 | 20.1 | 29.4 | 15 J | 16.3 | 26.3 | 6.9 | 12.8 | 11.1 | 14.9 | 20.7 |
| | Potassium | 2730 | N/A | 2040 | 968 | 931 | 602 | 595 | 2150 | 1570 | 768 J | 1510 | 821 | 834 | 1240 | 940 | 842 | 835 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 425 | 527 | 367 | 228 | 296 | 457 | 473 | 326 U | 654 | 509 | 172 | 391 | 358 | 212 | 205 |
| | Vanadium | 49.2 | 540 | 26.7 | 24.4 | 18.1 | 13.5 | 12.6 | 24.8 | 21.6 | 18.2 | 28.9 | 21.3 | 19.2 | 28.1 | 19.3 | 19.7 | 18.1 |
| | Zinc | 81.6 | 23,000 | 65 | 54.4 | 52.2 | 63.2 | 37.1 | 45.2 | 40.4 | 69.6 J | 53 | 81.5 | 47 | 37.6 | 51.3 | 77.3 | 30.6 |
| RAD (pCVg) | Gross Alpha | | | 21 | 16 | 19 | 13 | 22 | 25 | 26 | 21 J | 16 | 16 | 18 | 34 | 10 | 7.7 | 18 |
| | Gross Beta | | | 20 | 18 | 30 | 22 | 24 | 21 | 19 | 19 | 26 | 17 | 26 | 21 | 15 | 18 | 20 |
| | Radium-226 | | | 0.6 | 0.9 | 0.6 | 0.8 | 0.6 | 0.6 | 0.7 | 0.8 J | 0.7 | 0.8 | 0.4 | 0.8 | 0.8 | 0.7 | 0.6 |
| | Radium-228 | | | 0.2 | 0.4 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 J | 0.4 | 0.3 | 0.4 | 0.4 | ND | 0.5 | ND |
| OTHER | Moisture (%) | | | 4.1 | 2.6 | 0.7 | 0.7 | 2.8 | 2.6 | 1.9 | 0.5 | 0.9 | 1.8 | 2.7 | 4.5 | 3.2 | 1.4 | 1.2 |
| | pH | | | 7.9 | 8 | 7.8 | 7.9 | 8.3 | 8 | 8 | 8.1 | 8 | 7.9 | 8 | 8 | 8 | 8 | 7.9 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-34 | | | | RB-11-35 | | | | | RB-11-36 | | | | | RB-11-83 |
| | | | | 3-7 | 8-12 | 13-17 | 18-22 | 3-7 | 8-12 | 13-17 | 18-22 | 28-34 | 3-7 | 8-12 | 13-17 | 18-22 | 28-32 | 0-1 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | 0.012 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.008 |
| | Methylene Chloride | 0.005 | 11 | ND | ND | ND | ND | ND | 0.016 | 0.013 | ND | 0.008 | ND | 0.017 U | ND | ND | ND | 0.02 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.026 |
| | 1,1,I-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | ND | ND | 0.007 | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | 0.008 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.005 |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | 0.45 | 0.35 | ND | ND | ND | ND | ND | 0.36 | ND | ND | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | 0.46 | 0.37 | 1.2 | ND | ND | ND | 1.8 | ND | ND | ND | ND | 0.38 | 1.1 | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | 10.8 | ND | ND | ND | ND | ND | ND | 14 | 12.755 | 14.44 | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 9240 | 6560 | 7880 | 8000 | 4160 | 8040 | 7290 | 5590 | 4460 | 7590 | 5580 | 5480 | 4750 | 5670 | 7490 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 192 | 91 | 88.2 | 115 | 125 | 128 | 116 | 49.9 | 88.3 | 133 | 92.9 | 127 | 65.7 | 62.4 | 89 |
| | Beryllium | 0.83 | 0.14 | 0.62 | 0.4 | 0.4 | 0.41 | 0.3 | 0.51 | 0.41 | 0.3 | 0.4 | 0.41 | 0.31 | 0.31 | ND | 0.3 | 0.4 |
| | Cadmium | N/A | 38 | ND | ND | ND | ND | ND | 0.51 | ND | ND | 0.51 | ND | ND UJ | ND | 0.71 | 1.2 | ND |
| | Calcium | 119000 | N/A | 19000 | 47400 | 22100 | 31500 | 48700 | 35100 | 26200 | 40000 | 24800 | 35100 | 42500 | 26400 | 63700 | 46900 | 13500 |
| | Chromium, Total | 14.9 | 210 | 12.2 | 18.2 | 48.9 | 15.9 | 5.9 | 14.8 | 14.7 | 14.3 | 8.1 | 9.5 | 10.4 | 10.6 | 11.6 | 18.2 | 8.4 |
| | Cobalt | 11.3 | 4,700 | 7.3 | 6.2 | 10.2 | 9.5 | 4 | 6.1 | 8.6 | 8 | 6.3 | 6.5 | 8.6 | 6.8 | 5.7 | 6.4 | 7.2 |
| | Copper | 135 | 2,800 | 69.7 | 102 | 109 | 259 | 127 | 191 | 56.2 | 190 | 157 | 32.9 | 105 | 50.9 | 92.8 | 301 | 12.2 |
| | Iron | 20900 | 23,000 | 14900 | 12400 | 17400 | 13700 | 7900 | 53000 | 13800 | 12400 | 10400 | 11300 | 11600 | 11500 | 9160 | 11300 | 10400 |
| | Lead | 22.9 | 400 | 9.1 | 5.8 | ND | ND | 6.8 | 7.6 | 7.8 | ND | 5.2 | 6.9 | 5.3 | ND | 5.3 | 5.1 | 9.2 |
| | Magnesium | 8730 | N/A | 4980 | 4770 | 6930 | 5850 | 3430 | 4890 | 6160 | 4690 | 3300 | 4330 | 5280 | 4290 | 3830 | 3940 | 3930 |
| | Manganese | 435 | 380 | 372 | 234 | 328 | 278 | 181 | 263 | 295 | 240 | 235 | 283 | 279 | 220 | 194 | 234 | 276 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | 0.51 | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | 7.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 16.9 | 27.3 | 31.4 | 35.1 | 8.1 | 86.6 | 23.3 | 25.7 | 9.5 | 73.8 | 11 J | 10.8 | 18.1 | 483 | 9.2 |
| | Potassium | 2730 | N/A | 2300 | 1050 | 1520 | 1410 | 577 | 1400 | 977 | 993 | 978 | 2470 | 791 J | 730 | 714 | 1000 | 2630 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND UJ | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 370 | 313 | 331 | 347 | 71.9 | 125 | 338 | 369 | 309 | 322 | 268 J | 258 | 187 | 220 | 53.3 |
| | Vanadium | 49.2 | 540 | 27.7 | 24.3 | 31.6 | 25.2 | 16.8 | 25.6 | 25.3 | 24.1 | 19.7 | 20.8 | 22.5 J | 20.7 | 18.7 | 20.7 | 19.2 |
| | Zinc | 81.6 | 23,000 | 68.5 | 59 | 63.4 | 119 | 61.7 | 83.9 | 47.9 | 88.9 | 72.8 | 41.6 | 57.5 J | 43.5 | 50.3 | 118 | 41 |
| RAD (pCVg) | Gross Alpha | | | 16 | 22 | 21 | 15 | 14 | 13 | 26 | 54 | 19 | 16 | 18 UJ | 29 | 24 | 23 | 22 |
| | Gross Beta | | | 24 | 26 | 23 | 25 | 22 | 24 | 24 | 49 | 17 | 31 | 24 J | 32 | 29 | 30 | 24 |
| | Radium-226 | | | 0.6 | 0.6 | 0.8 | 0.4 | 0.6 | 0.7 | 0.6 | 0.6 | 0.4 | 0.4 | 0.4 J | 0.5 | 0.5 | 0.5 | 0.8 |
| | Radium-228 | | | 0.4 | 0.7 | 0.5 | 0.3 | 0.3 | 0.5 | 0.6 | 0.2 | 0.4 | 0.8 | 0.4 J | 0.3 | 0.4 | 0.4 | 0.5 |
| OTHER | Moisture (%) | | | 3.3 | 0.6 | 1.1 | 1.7 | 0.8 | 2.5 | 2.8 | 0.7 | 1.2 | 3.1 | 3.7 | 4.2 | 1.7 | 1.1 | 0.3 |
| | pH | | | 7.5 | 7.9 | 7.9 | 7.8 | 7.9 | 7.6 | 7.8 | 7.8 | 8 | 7.6 | 7.8 | 7.8 | 8 | 7.9 | 7.6 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-84 | RB-11-85 | RB-11-86 | RB-11-87 | RB-11-88 | RB-11-89 | RB-11-90 | RB-11-91 | RB-11-92 | RB-11-93 | RB-11-94 |
| | | | | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND UJ | ND UJ | ND | ND | ND | ND UJ | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | ND | ND | ND | ND | ND | 0.013 | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | 0.008 | 0.007 | 0.011 | ND | ND | 0.006 | ND | ND | ND | 0.006 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | ND | ND | ND | ND | ND | 0.052 | ND | ND |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | 0.006 | 0.007 | ND | ND | ND | ND | ND | ND | ND |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | 0.014 | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | ND | ND | ND | ND | ND | ND | ND | 0.043 | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | 0.35 | ND | ND | 0.36 | ND | 0.47 | ND | ND | ND | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | 0.67 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | ND | ND | 8.247 | ND | ND | ND | ND | ND | 10.4 |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 10800 | 5920 | 8070 | 11200 | 6530 | 6890 | 6880 | 10100 | 10200 | 11500 | 7590 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND UJ | ND UJ | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 109 | 122 | 186 | 308 | 118 | 282 | 117 | 121 | 162 | 226 J | 583 |
| | Beryllium | 0.83 | 0.14 | 0.74 | 0.41 | 0.41 | 0.62 | 0.41 | 0.41 | 0.41 | 0.52 | 0.63 | 0.73 J | 0.62 |
| | Cadmium | N/A | 38 | ND | ND | 0.52 | 0.73 | ND UJ | 0.62 J | 0.62 | 0.62 | 0.53 | ND | ND |
| | Calcium | 119000 | N/A | 20600 | 29800 | 42400 | 54700 | 29400 | 41400 | 31300 | 53400 | 22200 | 45700 | 93500 |
| | Chromium, Total | 14.9 | 210 | 10.2 | 11.1 | 9.7 | 14.2 | 50.7 | 9.7 | 9.7 | 10.3 | 15.1 | 14 | 9.1 |
| | Cobalt | 11.3 | 4,700 | 8 | 5 | 6.8 | 9 | 5.6 | 6.1 | 5.9 | 7.7 | 8.9 | 9 J | 6.3 |
| | Copper | 135 | 2,800 | 71.5 | 44.8 | 22.2 | 98 | 53.6 | 54.4 | 19.4 | 28.1 | 35.3 | 26.8 J | 37.9 |
| | Iron | 20900 | 23,000 | 13500 | 9950 | 12100 | 15300 | 13200 | 11300 | 11300 | 12400 | 15100 | 15600 | 11300 |
| | Lead | 22.9 | 400 | 9.6 | 8.7 | ND | 11 | 6.1 | 7.9 | 9.8 | 8.2 | 9.3 | 9.4 | ND |
| | Magnesium | 8730 | N/A | 5350 | 4200 | 5600 | 7200 | 5270 | 6280 | 5780 | 5610 | 6490 | 5770 | 6310 |
| | Manganese | 435 | 380 | 334 | 253 | 225 | 309 | 264 | 227 | 265 | 288 | 321 | 376 | 194 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | 12.6 | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 20.3 | 203 | 12.3 | 651 | 11.9 J | 19.7 J | 11.4 | 10.6 | 17.2 | 11.5 | 8.2 |
| | Potassium | 2730 | N/A | 1910 | 1500 | 1160 | 2560 | 897 J | 1130 J | 1100 | 1700 | 1760 | 2030 J | 1000 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND UJ | ND UJ | ND | ND | ND | ND | ND |
| | Sodium | 519 | N/A | 821 | 547 | 482 | 292 | 135 J | 422 J | 844 | 278 | 1050 | 143 J | 288 |
| | Vanadium | 49.2 | 540 | 25.2 | 19.6 | 27.1 | 32.1 | 27.6 | 27.6 J | 35.1 | 27.2 | 27.8 | 29.3 J | 30.7 |
| | Zinc | 81.6 | 23,000 | 54.1 | 41.2 | 33 | 61.5 | 42.0 J | 15.0 J | 34.2 | 41 | 45.3 | 43.1 J | 36.7 |
| RAD (pCVg) | Gross Alpha | | | 19 | 29 | 16 | 23 | 19 UJ | 15 J | 14 | 32 | 24 | 13 J | 19 |
| | Gross Beta | | | 26 | 26 | 27 | 27 | 23 J | 23 J | 17 | 24 | 22 | 19 UJ | 20 |
| | Radium-226 | | | 0.6 | 0.8 | 0.7 | 0.4 | 0.9 J | 0.8 J | 1 | 1 | 0.4 | 0.6 J | 0.5 |
| | Radium-228 | | | 0.3 | 0.3 | 0.5 | 0.4 | 0.6 J | 0.3 J | 0.4 | ND | 0.3 | 0.5 J | 0.5 |
| OTHER | Moisture (%) | | | 5.1 | 2.5 | 3.3 | 3.7 | 2.6 | 3.1 | 3.5 | 3.5 | 4.9 | 4.4 | 3.9 |
| | pH | | | 7.8 | 8 | 7.8 | 7.7 | 7.9 | 7.8 | 8 | 7.9 | 8 | 7.7 | 7.9 |

## Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] | Borehole Number and Sample Depth Interval (ft) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | RB-11-95 | RB-11-96 | RB-11-97 | RB-11-98 | RB-11-99 | RB-11-S1 | RB-11-S2 | RB-11-S3 | RB-11-S4 | RB-11-S5 | RB-11-S6 |
| | | | | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 | 0-1 |
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 | ND | ND | ND | ND | ND | ND | 0.054 | ND | ND | ND | ND |
| | Ethylbenzene | 0.005 | 2,900 | ND | ND | ND | 0.019 | ND | 0.005 | 0.012 | ND | 0.008 | ND | ND |
| | Methylene Chloride | 0.005 | 11 | ND | 0.006 | ND | ND | ND | 0.027 | 0.064 | 0.006 | 0.033 | 0.019 | 0.031 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Toluene | 0.005 | 1,900 | ND | ND | ND | 0.079 | ND | 0.022 | 0.053 | 0.007 | 0.075 | 0.019 | 0.024 |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 | ND | ND | ND | ND | ND | ND | 0.008 | ND | 0.006 | ND | 0.005 |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 | ND | ND | ND | 0.022 | ND | ND | ND | ND | ND | ND | ND |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 | ND | 0.006 | ND | 0.076 | ND | ND | 0.008 | ND | 0.005 | ND | ND |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND |
| | Benzo(k)fluoranthene | 0.7 | 6.1 | ND | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND | ND |
| | Chrysene | 0.7 | 24 | ND | ND | ND | ND | ND | ND | 1.8 | ND | ND | ND | ND |
| | di-o-Butyl Phthalate | 0.005 | 6,500 | ND | ND | ND | ND | ND | ND | ND | ND | 0.35 | ND | ND |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Fluoranthene | 0.7 | 2,600 | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND |
| | Phenanthrene | 0.7 | N/A | ND | ND | ND | ND | ND | ND | 0.42 | ND | ND | ND | ND |
| | Pyrene | 0.7 | 2,000 | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 | ND | ND | 10.8 | ND | ND | 16.1 | 16.5 | 11.8 | 9.4 | 6.1 | ND |
| | Gasoline Fraction | 1 | 100 | ND | ND | ND | ND | ND | ND | 0.23 | ND | 0.29 | ND | ND |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 | 6210 | 6000 | 6440 | 8370 | 5850 | 13400 | 10600 | 12600 | 10300 | 9670 | 11700 |
| | Antimony | N/A | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Barium | 496 | 5,300 | 137 | 193 | 171 | 485 | 111 | 147 | 127 | 112 | 124 | 101 | 116 |
| | Beryllium | 0.83 | 0.14 | 0.41 | 0.41 | 0.51 | 0.53 | 0.51 | 0.7 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 |
| | Cadmium | N/A | 38 | ND | ND | ND | 0.53 | ND | 1.1 | 1.1 | 0.5 | 0.9 | 0.7 | 0.6 |
| | Calcium | 119000 | N/A | 30600 | 35900 | 22200 | 72800 | 31200 | 15100 | 16700 | 10600 | 21100 | 16900 | 9320 |
| | Chromium, Total | 14.9 | 210 | 7.4 | 9.1 | 9.3 | 9.5 | 7.4 | 12.1 | 13.3 | 14 | 11.3 | 10.8 | 13.6 |
| | Cobalt | 11.3 | 4,700 | 6.1 | 6.1 | 7.2 | 7.2 | 6.2 | 9.8 | 8.2 | 8.3 | 9.5 | 9 | 9.2 |
| | Copper | 135 | 2,800 | 31.9 | 45.1 | 37.6 | 16 | 21.1 | 24.4 | 24.7 | 17.9 | 16.5 | 13.1 | 16.1 |
| | Iron | 20900 | 23,000 | 10900 | 10900 | 11900 | 12600 | 11500 | 15900 | 12900 | 15900 | 14800 | 13400 | 16400 |
| | Lead | 22.9 | 400 | 9.1 | ND | 7.8 | ND | 7.3 | 18.3 | 130 | 16.1 | 11.2 | 7.9 | 13.6 |
| | Magnesium | 8730 | N/A | 5290 | 4980 | 5050 | 9040 | 5320 | 5950 | 4980 | 5100 | 4730 | 4520 | 5070 |
| | Manganese | 435 | 380 | 263 | 207 | 274 | 246 | 285 | 440 | 381 | 347 | 308 | 343 | 361 |
| | Mercury | N/A | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Molybdenum | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | Nickel | 54.4 | 1,500 | 14.5 | 12.2 | 11.2 | 12.4 | 13.4 | 12.8 | 10.9 | 12.2 | 11.6 | 11 | 12.1 |
| | Potassium | 2730 | N/A | 986 | 1120 | 1210 | 1060 | 1370 | 4190 | 3680 | 4120 | 3350 | 2990 | 3620 |
| | Selenium | N/A | 380 | ND | ND | ND | ND | ND | ND | ND | ND | 11.1 | ND | ND |
| | Sodium | 519 | N/A | 484 | 187 | 617 | 600 | 406 | 96.2 | 87.7 | 84.1 | 72.6 | 72.3 | 61 |
| | Vanadium | 49.2 | 540 | 31.9 | 24.1 | 35.2 | 33.4 | 28.6 | 28.4 | 23 | 29.7 | 28.1 | 27.7 | 28.4 |
| | Zinc | 81.6 | 23,000 | 39.5 | 35.8 | 41.4 | 34.5 | 39.5 | 68.9 | 70.8 | 48 | 39.6 | 38 | 47.2 |
| RAD (pCVg) | Gross Alpha | | | 17 | 27 | 21 | 21 | 26 | 40 | 21 | 16 | 12 | 17 | 18 |
| | Gross Beta | | | 20 | 22 | 23 | 26 | 28 | 30 | 24 | 26 | 22 | 28 | 34 |
| | Radium-226 | | | 0.8 | 0.4 | 0.6 | 0.9 | 0.4 | 0.8 | 0.6 | 0.9 | 0.5 | 0.7 | 0.6 |
| | Radium-228 | | | 0.4 | 0.3 | ND | 0.7 | 0.4 | 0.5 | 0.3 | 0.4 | 0.3 | 0.5 | 0.5 |
| OTHER | Moisture (%) | | | 3.2 | 2.6 | 2.6 | 5.5 | 2.7 | 0.4 | 0.6 | 0.3 | 0.1 | 0.3 | 0.4 |
| | pH | | | 7.8 | 8.1 | 8.1 | 7.7 | 8.6 | 7.5 | 7.5 | 7.6 | 7.5 | 7.7 | 7.6 |

**Table 2-1. Summary of Reportable Appendix 2D-1 RFI Data, SWMU 6-30 (Continued)**

| Chemical Class | Analyte | PQL | EPA Region 6 HHRB Screening Level[2] |
|---|---|---|---|
| VOCs (mg/kg) | Acetone | 0.1 | 2,000 |
| | Ethylbenzene | 0.005 | 2,900 |
| | Methylene Chloride | 0.005 | 11 |
| | Tetrachloroethylene(PCE) | 0.005 | 5646 |
| | Toluene | 0.005 | 1,900 |
| | 1,1,1-Trichloroethane | 0.005 | 3,200 |
| | O-Xylene(1,2-Dimethylbenzene) | 0.7 | 980 |
| | M,P-Xylene(Sum of Isomers) | 0.7 | 980 |
| SVOCs (mg/kg) | Benzo(b)fluoranthene | 0.7 | 0.6 |
| | Benzo(k)fluoranthene | 0.7 | 6.1 |
| | Chrysene | 0.7 | 24 |
| | di-o-Butyl Phthalate | 0.005 | 6,500 |
| | bis(2-Ethylhexl)Phthalate | 0.7 | 32 |
| | Fluoranthene | 0.7 | 2,600 |
| | Phenanthrene | 0.7 | N/A |
| | Pyrene | 0.7 | 2,000 |
| TPH (mg/kg) | Diesel Fraction | 10 | 100 |
| | Gasoline Fraction | 1 | 100 |
| METALS (mg/kg) | Aluminum | 13300 | 77,000 |
| | Antimony | N/A | 31 |
| | Barium | 496 | 5,300 |
| | Beryllium | 0.83 | 0.14 |
| | Cadmium | N/A | 38 |
| | Calcium | 119000 | N/A |
| | Chromium, Total | 14.9 | 210 |
| | Cobalt | 11.3 | 4,700 |
| | Copper | 135 | 2,800 |
| | Iron | 20900 | 23,000 |
| | Lead | 22.9 | 400 |
| | Magnesium | 8730 | N/A |
| | Manganese | 435 | 380 |
| | Mercury | N/A | 23 |
| | Molybdenum | N/A | 380 |
| | Nickel | 54.4 | 1,500 |
| | Potassium | 2730 | N/A |
| | Selenium | N/A | 380 |
| | Sodium | 519 | N/A |
| | Vanadium | 49.2 | 540 |
| | Zinc | 81.6 | 23,000 |
| RAD (pCVg) | Gross Alpha | | |
| | Gross Beta | | |
| | Radium-226 | | |
| | Radium-228 | | |
| OTHER | Moisture (%) | | |
| | pH | | |

Notes:

1. Complete analytical results are presented in IRP Stage 2D-1 Final Draft RCRA RFI (USAF, 1994).
2. EPA Region 6 HHRB Media-Specific Screening Levels.
3. TPH screening levels are NMED action levels.
4. PQL = practical quantitation limits
   pCi/g = picocuries per gram
   rad = radionuclides
   ND = not detected above the method detection level
   U = accept data (positive results may be influenced by lab contamination)
   UJ = estimated nondetect
   J = estimated value

The EPA and NMED were concerned that the Stage 2D-1 RFI (EPA, 1995; NMED, 1995) did not include any sampling and analysis of materials from within the burial trenches at the site.

Additional subsurface soil data were needed to assess and characterize the existence of, magnitude, and extent of vertical migration of any radioactive and chemical contaminants buried in the trenches at SWMU 6-30.

## 2.2 1997 CH2M HILL Field Investigation Scope

The field investigation program was designed to determine if contamination was present within the trenches and in the underlying soils by collecting samples from within the trenches using a direct-push drill rig (Geoprobe). The number of boreholes per trench was based on trench length (approximate 30-ft spacing between boreholes). The depth of boreholes within a trench was based on trench depth (shallow trenches having 20-ft borehole depths and deep trenches having 30-ft borehole depths). A total of 32 boreholes were advanced at the site. Specifically

- Two 20-ft deep boreholes were advanced in each of Trenches 1 and 2
- One 20-ft deep borehole was advanced in each of Trenches 3 and 4
- Four 30-ft deep boreholes were advanced in each of Trenches 5, 6, and 9
- Five 30-ft deep boreholes were advanced in each of Trenches 7 and 8
- Four boreholes were advanced to the depth of the deepest environmental sample for background sample collection in order to supplement the existing Appendix IV, Stage 2D-1 investigation background samples

Boring locations are shown in Figure 2-3.

Soil samples were collected from each borehole at 5-ft intervals to the bottom of the trench and from two additional sampling intervals below the bottom of the trench (10-ft below the bottom of the trench).

Samples were field-screened using a photoionization detector (PID), a beta-gamma meter, and a mercury vapor detector. If field-screening indicated the presence of contaminants in the intervals at 5 or 10 ft below the trench, sampling continued in 5-ft increments until two successive 5-ft samples showed no contamination. Samples were analyzed for VOCs (EPA Method 8260), SVOCs (EPA Method 8270), metals (EPA Methods 6010/200.7), mercury (EPA Method 7471), cyanide (EPA Method 9010A), gross alpha and beta radiation levels (EPA Method 900), gamma spectroscopy (EPA Method 901.1), soil pH (EPA Method 9045), and soil moisture (ASTM D2216).

## 2.3 1997 CH2M HILL RFI Results

Results from samples collected and analyzed during the 1997 RFI conducted by CH2M HILL at SWMU 6-30 are discussed below. Table 2-2 presents a summary of the sample results with concentrations greater than the analytical method detection limits sorted by analyte. Table 2-3 presents the same data sorted by sample location. Comprehensive data tables are included in Appendix F. Chain-of-custody forms are presented in Appendix G. The memorandum discussing validation of the investigation data is presented in Appendix H.

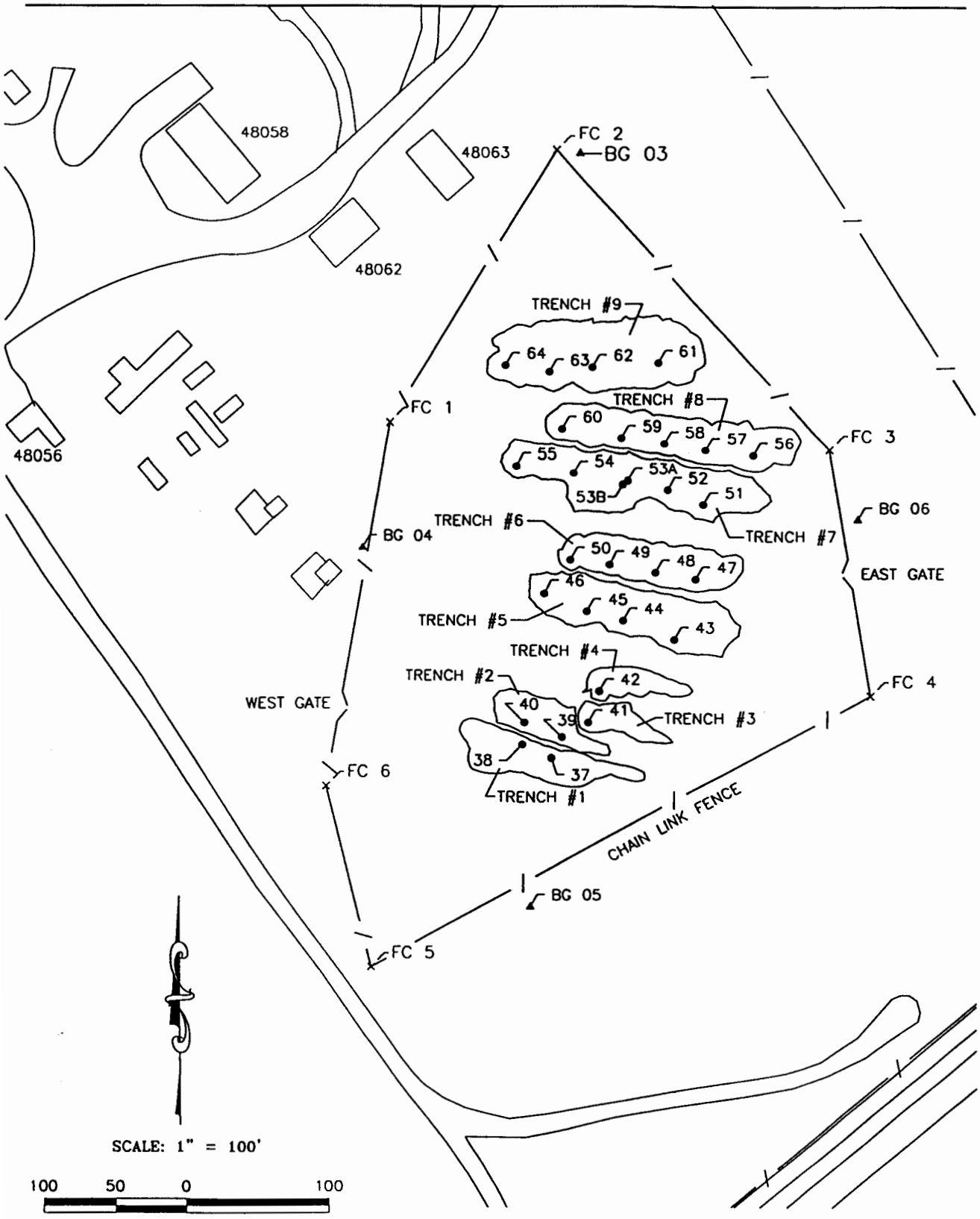


Figure 2-3. RFI Sampling Locations, SWMU 6-30

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-43-0305 | Acetone | 0.011 | 0.01 |
| RB11-BG06-0810 | Acetone | 0.011 | 0.011 |
| RB11-43-1820 | Acetone | 0.011 | 0.01 |
| RB11-BG03-1820 | Acetone | 0.011 | 0.01 |
| RB11-BG04-2325 | Acetone | 0.011 | 0.01 |
| RB11-BG03-0305 | Acetone | 0.012 | 0.011 |
| RB11-43-1315 | Acetone | 0.012 | 0.01 |
| RB11-41-0810 | Acetone | 0.013 | 0.011 |
| RB11-BG03-0810 | Acetone | 0.013 | 0.011 |
| RB11-BG06-2830 | Acetone | 0.013 | 0.011 |
| RB11-BG04-0305 | Acetone | 0.014 | 0.011 |
| RB11-43-0810 | Acetone | 0.014 | 0.01 |
| RB11-BG04-2325 | Aluminum | 2950 | 50.9 |
| RB11-63-2325 | Aluminum | 3130 | 50.9 |
| RB11-60-1820 | Aluminum | 3190 | 51.7 |
| RB11-57-2325 | Aluminum | 3290 | 50.6 |
| RB11-BG06-2325 | Aluminum | 3500 | 50.8 |
| RB11-46-2325 | Aluminum | 3530 | 57 |
| RB11-BG04-1820 | Aluminum | 3560 | 51.1 |
| RB11-59-2325 | Aluminum | 3560 | 50.8 |
| RB11-BG06-2830 | Aluminum | 3650 | 54.5 |
| RB11-45-2830 | Aluminum | 3700 | 51 |
| RB11-62-2830 | Aluminum | 3700 | 51 |
| RB11-52-2325 | Aluminum | 3730 | 51 |
| RB11-64-1315 | Aluminum | 3780 | 52 |
| RB11-39-1820 | Aluminum | 3790 | 50.5 |
| RB11-62-1820 | Aluminum | 3890 | 51.1 |
| RB11-52-0810 | Aluminum | 3900 | 51.8 |
| RB11-47-1820 | Aluminum | 4020 | 51 |
| RB11-52-1820 | Aluminum | 4050 | 51 |
| RB11-43-2325 | Aluminum | 4080 | 50.9 |
| RB11-62-0810 | Aluminum | 4130 | 50.9 |
| RB11-BG05-0810 | Aluminum | 4150 | 55.2 |
| RB11-58-1820 | Aluminum | 4160 | 50.6 |
| RB11-38-0810 | Aluminum | 4170 | 51.7 |
| RB11-39-1315 | Aluminum | 4190 | 50.6 |
| RB11-58-2325 | Aluminum | 4250 | 50.6 |
| RB11-51-2325 | Aluminum | 4260 | 53.2 |
| RB11-48-1820 | Aluminum | 4270 | 51 |
| RB11-45-1820 | Aluminum | 4280 | 51 |
| RB11-63-1315 | Aluminum | 4380 | 51.8 |
| RB11-BG05-2830 | Aluminum | 4380 | 50.2 |
| RB11-BG06-0305 | Aluminum | 4390 | 53 |
| RB11-64-2325 | Aluminum | 4460 | 51.2 |
| RB11-63-1820 | Aluminum | 4480 | 51.4 |
| RB11-BG05-1820 | Aluminum | 4560 | 51 |
| RB11-BG06-1820 | Aluminum | 4570 | 50.5 |
| RB11-BG04-2830 | Aluminum | 4700 | 50.8 |
| RB11-54-2325 | Aluminum | 4770 | 50.7 |
| RB11-40-1820 | Aluminum | 4800 | 50.7 |
| RB11-BG03-1315 | Aluminum | 4850 | 51 |
| RB11-59-0810 | Aluminum | 4910 | 50.6 |
| RB11-57-1820 | Aluminum | 4950 | 51.3 |
| RB11-57-0810 | Aluminum | 5040 | 51.8 |
| RB11-BG04-1315 | Aluminum | 5190 | 51.7 |
| RB11-37-1820 | Aluminum | 5240 | 50.7 |
| RB11-46-1820 | Aluminum | 5240 | 51 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-54-1315 | Aluminum | 5250 | 52.6 |
| RB11-41-1820 | Aluminum | 5250 | 51.1 |
| RB11-43-2830 | Aluminum | 5280 | 51 |
| RB11-46-0305 | Aluminum | 5300 | 53 |
| RB11-48-2830 | Aluminum | 5300 | 51 |
| RB11-57-2830 | Aluminum | 5340 | 50.8 |
| RB11-58-0810 | Aluminum | 5350 | 52.1 |
| RB11-54-1820 | Aluminum | 5350 | 50.8 |
| RB11-53-1315 | Aluminum | 5360 | 50.7 |
| RB11-53-2325 | Aluminum | 5370 | 51.2 |
| RB11-61-2325 | Aluminum | 5410 | 50.7 |
| RB11-49-0305 | Aluminum | 5440 | 51.5 |
| RB11-59-2830 | Aluminum | 5450 | 50.8 |
| RB11-61-1820 | Aluminum | 5510 | 50.8 |
| RB11-43-1820 | Aluminum | 5520 | 51.2 |
| RB11-61-2830 | Aluminum | 5550 | 50.5 |
| RB11-41-1315 | Aluminum | 5560 | 51.2 |
| RB11-BG03-2325 | Aluminum | 5600 | 54.4 |
| RB11-57-1315 | Aluminum | 5620 | 51.2 |
| RB11-44-0305 | Aluminum | 5650 | 51.2 |
| RB11-49-2325 | Aluminum | 5660 | 51.1 |
| RB11-60-1315 | Aluminum | 5670 | 50.5 |
| RB11-60-2830 | Aluminum | 5730 | 51.5 |
| RB11-BG05-1315 | Aluminum | 5740 | 50.6 |
| RB11-45-0810 | Aluminum | 5770 | 52 |
| RB11-49-2830 | Aluminum | 5780 | 52.4 |
| RB11-46-1315 | Aluminum | 5810 | 51 |
| RB11-58-2830 | Aluminum | 5920 | 50.6 |
| RB11-56-0305 | Aluminum | 5940 | 51.8 |
| RB11-48-1315 | Aluminum | 5960 | 51 |
| RB11-40-0810 | Aluminum | 6020 | 52.5 |
| RB11-BG03-1820 | Aluminum | 6070 | 50.8 |
| RB11-51-1820 | Aluminum | 6090 | 51.8 |
| RB11-44-0305FD | Aluminum | 6110 | 52.5 |
| RB11-52-0305 | Aluminum | 6120 | 52.6 |
| RB11-53-1820 | Aluminum | 6130 | 50.8 |
| RB11-59-1315 | Aluminum | 6140 | 50.6 |
| RB11-46-2830 | Aluminum | 6180 | 55 |
| RB11-45-1315 | Aluminum | 6280 | 5.1 |
| RB11-38-1315 | Aluminum | 6350 | 51.4 |
| RB11-38-0305FD | Aluminum | 6360 | 53.6 |
| RB11-61-0810 | Aluminum | 6360 | 51.2 |
| RB11-61-1315 | Aluminum | 6420 | 50.9 |
| RB11-50-2325 | Aluminum | 6420 | 51.3 |
| RB11-BG06-1315 | Aluminum | 6590 | 51.3 |
| RB11-39-0810 | Aluminum | 6630 | 53.2 |
| RB11-47-2830 | Aluminum | 6720 | 53 |
| RB11-55-2830 | Aluminum | 6800 | 55.6 |
| RB11-60-0305FD | Aluminum | 6810 | 51.7 |
| RB11-51-0305 | Aluminum | 6820 | 52.4 |
| RB11-49-0810 | Aluminum | 6830 | 52.4 |
| RB11-40-1315 | Aluminum | 6920 | 50.7 |
| RB11-60-2325 | Aluminum | 7050 | 51 |
| RB11-42-0810 | Aluminum | 7130 | 51.5 |
| RB11-50-1315 | Aluminum | 7160 | 51.1 |
| RB11-56-2325 | Aluminum | 7170 | 51.2 |
| RB11-49-1315 | Aluminum | 7230 | 53.4 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-44-1315 | Aluminum | 7260 | 52 |
| RB11-63-0810 | Aluminum | 7280 | 54.6 |
| RB11-41-0305 | Aluminum | 7290 | 52.3 |
| RB11-55-1315 | Aluminum | 7310 | 51.8 |
| RB11-40-0305 | Aluminum | 7360 | 51.9 |
| RB11-37-1315 | Aluminum | 7370 | 51.4 |
| RB11-56-0305FD | Aluminum | 7390 | 52.9 |
| RB11-62-2325 | Aluminum | 7390 | 50.5 |
| RB11-50-0305 | Aluminum | 7470 | 52.4 |
| RB11-46-0810 | Aluminum | 7490 | 51 |
| RB11-56-1315 | Aluminum | 7490 | 50.6 |
| RB11-58-1315 | Aluminum | 7520 | 50.4 |
| RB11-43-1315 | Aluminum | 7540 | 51.6 |
| RB11-64-1820 | Aluminum | 7540 | 52 |
| RB11-46-0305FD | Aluminum | 7720 | 51 |
| RB11-64-0810FD | Aluminum | 7760 | 52.7 |
| RB11-60-0305 | Aluminum | 7860 | 51.5 |
| RB11-61-0305 | Aluminum | 7860 | 52.3 |
| RB11-60-0810 | Aluminum | 7940 | 51.7 |
| RB11-47-0810 | Aluminum | 7990 | 55 |
| RB11-51-0305FD | Aluminum | 8000 | 52.5 |
| RB11-59-0305 | Aluminum | 8040 | 52.3 |
| RB11-39-0305 | Aluminum | 8070 | 54 |
| RB11-42-1315 | Aluminum | 8080 | 50.9 |
| RB11-BG03-0810 | Aluminum | 8090 | 52.9 |
| RB11-38-0305 | Aluminum | 8110 | 53.1 |
| RB11-37-0305 | Aluminum | 8120 | 52.5 |
| RB11-50-1820 | Aluminum | 8150 | 51.4 |
| RB11-59-1820 | Aluminum | 8150 | 50.8 |
| RB11-53-0810 | Aluminum | 8160 | 52 |
| RB11-38-1820 | Aluminum | 8240 | 51.8 |
| RB11-58-0305FD | Aluminum | 8270 | 53.1 |
| RB11-48-0810 | Aluminum | 8270 | 53 |
| RB11-50-0810 | Aluminum | 8350 | 55 |
| RB11-45-2325 | Aluminum | 8520 | 54 |
| RB11-56-2830 | Aluminum | 8560 | 51.7 |
| RB11-51-1315 | Aluminum | 8610 | 52.4 |
| RB11-37-0810 | Aluminum | 8620 | 53 |
| RB11-47-2325 | Aluminum | 8650 | 53 |
| RB11-BG03-2830 | Aluminum | 8700 | 52.3 |
| RB11-50-2830 | Aluminum | 8750 | 51.9 |
| RB11-52-2830 | Aluminum | 8750 | 53.8 |
| RB11-43-0810 | Aluminum | 8760 | 51.4 |
| RB11-45-0305 | Aluminum | 8770 | 52 |
| RB11-52-1315 | Aluminum | 8800 | 52.4 |
| RB11-55-1820 | Aluminum | 8830 | 53.8 |
| RB11-BG05-2325 | Aluminum | 8830 | 57.1 |
| RB11-63-0305 | Aluminum | 8930 | 54.1 |
| RB11-58-0305 | Aluminum | 8940 | 52.4 |
| RB11-49-1820 | Aluminum | 8940 | 52.4 |
| RB11-64-0305 | Aluminum | 8990 | 52.7 |
| RB11-47-1315 | Aluminum | 9080 | 51 |
| RB11-64-0810 | Aluminum | 9100 | 53.3 |
| RB11-44-1820 | Aluminum | 9210 | 51.3 |
| RB11-48-0305 | Aluminum | 9500 | 51 |
| RB11-43-0305 | Aluminum | 9540 | 51.9 |
| RB11-53-0305FD | Aluminum | 9550 | 52.4 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG06-0305FD | Aluminum | 9580 | 52.2 |
| RB11-53-2830 | Aluminum | 9630 | 54.1 |
| RB11-51-2830 | Aluminum | 9640 | 53.2 |
| RB11-55-0305 | Aluminum | 9700 | 52.4 |
| RB11-57-0305 | Aluminum | 9760 | 53.4 |
| RB11-54-0810 | Aluminum | 9850 | 52.6 |
| RB11-51-0810 | Aluminum | 9880 | 55.2 |
| RB11-54-2830 | Aluminum | 9910 | 51.1 |
| RB11-54-0305 | Aluminum | 10300 | 51.9 |
| RB11-BG06-0810 | Aluminum | 10300 | 52.8 |
| RB11-44-2325 | Aluminum | 10300 | 55.6 |
| RB11-BG05-0305 | Aluminum | 10400 | 52.1 |
| RB11-64-0305FD | Aluminum | 10400 | 52.6 |
| RB11-62-1315 | Aluminum | 10600 | 51.1 |
| RB11-48-2325 | Aluminum | 10700 | 52 |
| RB11-42-1820 | Aluminum | 10800 | 53 |
| RB11-54-0305FD | Aluminum | 11100 | 52.9 |
| RB11-56-0810 | Aluminum | 11100 | 52.1 |
| RB11-44-2830 | Aluminum | 11100 | 51.6 |
| RB11-53-0305 | Aluminum | 11200 | 52.6 |
| RB11-44-0810 | Aluminum | 11200 | 52 |
| RB11-55-0810 | Aluminum | 11200 | 52.4 |
| RB11-BG04-0810 | Aluminum | 11200 | 53.1 |
| RB11-56-1820 | Aluminum | 11300 | 50.8 |
| RB11-55-2325 | Aluminum | 11300 | 59.5 |
| RB11-42-0305 | Aluminum | 11500 | 52.2 |
| RB11-41-0810 | Aluminum | 11500 | 52.7 |
| RB11-62-0305FD | Aluminum | 11700 | 52.6 |
| RB11-47-0305 | Aluminum | 12000 | 51 |
| RB11-49-0305FD | Aluminum | 12000 | 51.7 |
| RB11-BG04-0305FD | Aluminum | 12600 | 53.8 |
| RB11-62-0305 | Aluminum | 12700 | 53 |
| RB11-BG04-0305 | Aluminum | 12700 | 52.9 |
| RB11-48-0305FD | Aluminum | 12900 | 54 |
| RB11-40-0305FD | Aluminum | 13100 | 51.8 |
| RB11-43-0305FD | Aluminum | 13200 | 51.4 |
| RB11-63-2830 | Aluminum | 17000 | 50.7 |
| RB11-BG03-0305 | Aluminum | 18400 | 52.4 |
| RB11-46-2830 | Antimony | 0.55 | 0.55 |
| RB11-54-2325 | Antimony | 0.57 | 0.51 |
| RB11-57-2325 | Arsenic | 1.1 | 0.51 |
| RB11-BG04-1315 | Arsenic | 1.4 | 0.52 |
| RB11-BG06-1820 | Arsenic | 1.5 | 0.51 |
| RB11-52-0810 | Arsenic | 1.7 | 0.52 |
| RB11-53-1315 | Arsenic | 1.7 | 1 |
| RB11-54-1820 | Arsenic | 1.7 | 1 |
| RB11-BG04-1820 | Arsenic | 1.7 | 0.51 |
| RB11-41-1820 | Arsenic | 1.8 | 0.51 |
| RB11-52-2325 | Arsenic | 1.8 | 0.51 |
| RB11-59-2325 | Arsenic | 1.8 | 0.51 |
| RB11-62-0810 | Arsenic | 1.9 | 0.51 |
| RB11-45-1315 | Arsenic | 1.9 | 0.51 |
| RB11-55-1315 | Arsenic | 1.9 | 0.52 |
| RB11-64-1315 | Arsenic | 1.9 | 0.52 |
| RB11-62-1820 | Arsenic | 1.9 | 0.51 |
| RB11-53-2325 | Arsenic | 1.9 | 1 |
| RB11-54-2325 | Arsenic | 1.9 | 1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-39-1315 | Arsenic | 2 | 0.51 |
| RB11-46-1820 | Arsenic | 2 | 0.51 |
| RB11-53-1820 | Arsenic | 2 | 1 |
| RB11-49-2325 | Arsenic | 2 | 0.51 |
| RB11-63-2325 | Arsenic | 2 | 0.51 |
| RB11-57-2830 | Arsenic | 2 | 0.51 |
| RB11-58-2830 | Arsenic | 2 | 0.51 |
| RB11-64-2325 | Arsenic | 2.1 | 0.51 |
| RB11-BG06-2325 | Arsenic | 2.1 | 0.51 |
| RB11-43-2830 | Arsenic | 2.1 | 0.51 |
| RB11-44-0305FD | Arsenic | 2.2 | 0.52 |
| RB11-43-0810 | Arsenic | 2.2 | 0.51 |
| RB11-58-0810 | Arsenic | 2.3 | 0.52 |
| RB11-37-1820 | Arsenic | 2.3 | 0.51 |
| RB11-61-1820 | Arsenic | 2.3 | 0.51 |
| RB11-63-1820 | Arsenic | 2.3 | 0.51 |
| RB11-58-2325 | Arsenic | 2.3 | 0.51 |
| RB11-BG04-2325 | Arsenic | 2.3 | 0.51 |
| RB11-41-1315 | Arsenic | 2.4 | 0.51 |
| RB11-58-1315 | Arsenic | 2.4 | 0.5 |
| RB11-39-1820 | Arsenic | 2.4 | 0.51 |
| RB11-43-2325 | Arsenic | 2.4 | 0.51 |
| RB11-47-2830 | Arsenic | 2.4 | 0.53 |
| RB11-48-1315 | Arsenic | 2.5 | 0.51 |
| RB11-50-1315 | Arsenic | 2.5 | 0.51 |
| RB11-54-1315 | Arsenic | 2.5 | 1.1 |
| RB11-BG06-1315 | Arsenic | 2.5 | 0.51 |
| RB11-49-1820 | Arsenic | 2.5 | 0.52 |
| RB11-58-1820 | Arsenic | 2.5 | 0.51 |
| RB11-50-2325 | Arsenic | 2.5 | 0.51 |
| RB11-38-0810 | Arsenic | 2.6 | 0.52 |
| RB11-56-1315 | Arsenic | 2.6 | 0.51 |
| RB11-57-1315 | Arsenic | 2.6 | 0.51 |
| RB11-62-1315 | Arsenic | 2.6 | 0.51 |
| RB11-BG03-1315 | Arsenic | 2.6 | 0.51 |
| RB11-BG05-1315 | Arsenic | 2.6 | 0.51 |
| RB11-45-1820 | Arsenic | 2.6 | 0.51 |
| RB11-56-1820 | Arsenic | 2.6 | 0.51 |
| RB11-50-2830 | Arsenic | 2.6 | 0.52 |
| RB11-57-0810 | Arsenic | 2.7 | 0.52 |
| RB11-44-1820 | Arsenic | 2.7 | 0.51 |
| RB11-BG03-1820 | Arsenic | 2.7 | 0.51 |
| RB11-51-2325 | Arsenic | 2.7 | 0.53 |
| RB11-56-2325 | Arsenic | 2.7 | 0.51 |
| RB11-44-0810 | Arsenic | 2.8 | 0.52 |
| RB11-45-0810 | Arsenic | 2.8 | 0.52 |
| RB11-48-0810 | Arsenic | 2.8 | 0.53 |
| RB11-BG05-1820 | Arsenic | 2.8 | 0.51 |
| RB11-45-2830 | Arsenic | 2.8 | 0.51 |
| RB11-49-0305 | Arsenic | 2.9 | 0.51 |
| RB11-50-0305 | Arsenic | 2.9 | 0.52 |
| RB11-47-1820 | Arsenic | 2.9 | 0.51 |
| RB11-55-1820 | Arsenic | 2.9 | 0.54 |
| RB11-64-1820 | Arsenic | 2.9 | 0.52 |
| RB11-BG03-2830 | Arsenic | 2.9 | 0.52 |
| RB11-BG06-2830 | Arsenic | 2.9 | 0.55 |
| RB11-52-0305 | Arsenic | 3 | 0.53 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-0305 | Arsenic | 3 | 0.52 |
| RB11-49-0810 | Arsenic | 3 | 0.52 |
| RB11-38-1820 | Arsenic | 3 | 0.52 |
| RB11-55-2830 | Arsenic | 3 | 0.56 |
| RB11-38-0305FD | Arsenic | 3.1 | 0.54 |
| RB11-54-2830 | Arsenic | 3.1 | 1 |
| RB11-56-2830 | Arsenic | 3.1 | 0.52 |
| RB11-62-2830 | Arsenic | 3.1 | 0.51 |
| RB11-40-0810 | Arsenic | 3.2 | 0.53 |
| RB11-63-0810 | Arsenic | 3.2 | 0.55 |
| RB11-52-1820 | Arsenic | 3.2 | 0.51 |
| RB11-46-2325 | Arsenic | 3.2 | 0.57 |
| RB11-51-0305 | Arsenic | 3.3 | 0.52 |
| RB11-55-0305 | Arsenic | 3.3 | 0.52 |
| RB11-56-0810 | Arsenic | 3.3 | 0.52 |
| RB11-43-1315 | Arsenic | 3.3 | 0.52 |
| RB11-43-1820 | Arsenic | 3.3 | 0.51 |
| RB11-51-1820 | Arsenic | 3.3 | 0.52 |
| RB11-40-1820 | Arsenic | 3.4 | 0.51 |
| RB11-47-2325 | Arsenic | 3.4 | 0.53 |
| RB11-BG06-0305 | Arsenic | 3.5 | 0.53 |
| RB11-53-0305FD | Arsenic | 3.5 | 1 |
| RB11-48-1820 | Arsenic | 3.5 | 0.51 |
| RB11-57-1820 | Arsenic | 3.5 | 0.51 |
| RB11-48-2830 | Arsenic | 3.5 | 0.51 |
| RB11-45-0305 | Arsenic | 3.6 | 0.52 |
| RB11-BG04-0305 | Arsenic | 3.6 | 0.53 |
| RB11-BG04-0305FD | Arsenic | 3.6 | 0.54 |
| RB11-46-0810 | Arsenic | 3.6 | 0.51 |
| RB11-47-0810 | Arsenic | 3.6 | 0.55 |
| RB11-40-1315 | Arsenic | 3.6 | 0.51 |
| RB11-52-1315 | Arsenic | 3.6 | 0.52 |
| RB11-51-2830 | Arsenic | 3.6 | 0.53 |
| RB11-54-0305 | Arsenic | 3.7 | 1 |
| RB11-56-0305FD | Arsenic | 3.7 | 0.53 |
| RB11-58-0305FD | Arsenic | 3.7 | 0.53 |
| RB11-39-0810 | Arsenic | 3.7 | 0.53 |
| RB11-64-0810FD | Arsenic | 3.7 | 0.53 |
| RB11-38-1315 | Arsenic | 3.7 | 0.51 |
| RB11-42-1315 | Arsenic | 3.7 | 0.51 |
| RB11-44-1315 | Arsenic | 3.7 | 0.52 |
| RB11-61-2325 | Arsenic | 3.7 | 0.51 |
| RB11-BG05-2325 | Arsenic | 3.7 | 0.57 |
| RB11-BG04-2830 | Arsenic | 3.7 | 0.51 |
| RB11-40-0305 | Arsenic | 3.8 | 0.52 |
| RB11-54-0810 | Arsenic | 3.8 | 1.1 |
| RB11-55-0810 | Arsenic | 3.8 | 0.52 |
| RB11-37-1315 | Arsenic | 3.8 | 0.51 |
| RB11-46-1315 | Arsenic | 3.8 | 0.51 |
| RB11-60-1820 | Arsenic | 3.8 | 0.52 |
| RB11-60-2325 | Arsenic | 3.8 | 0.51 |
| RB11-52-2830 | Arsenic | 3.8 | 0.54 |
| RB11-38-0305 | Arsenic | 3.9 | 0.53 |
| RB11-43-0305 | Arsenic | 3.9 | 0.52 |
| RB11-57-0305 | Arsenic | 3.9 | 0.53 |
| RB11-46-0305FD | Arsenic | 3.9 | 0.51 |
| RB11-51-1315 | Arsenic | 3.9 | 0.52 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-46-0305 | Arsenic | 4 | 0.53 |
| RB11-51-0305FD | Arsenic | 4 | 0.52 |
| RB11-42-0810 | Arsenic | 4 | 0.51 |
| RB11-60-1315 | Arsenic | 4 | 0.51 |
| RB11-48-2325 | Arsenic | 4 | 0.52 |
| RB11-49-2830 | Arsenic | 4 | 0.52 |
| RB11-41-0305 | Arsenic | 4.1 | 0.52 |
| RB11-53-0305 | Arsenic | 4.1 | 1.1 |
| RB11-37-0810 | Arsenic | 4.1 | 0.53 |
| RB11-51-0810 | Arsenic | 4.1 | 0.55 |
| RB11-BG05-0810 | Arsenic | 4.1 | 0.55 |
| RB11-59-2830 | Arsenic | 4.1 | 0.51 |
| RB11-61-2830 | Arsenic | 4.1 | 0.51 |
| RB11-42-0305 | Arsenic | 4.2 | 0.52 |
| RB11-40-0305FD | Arsenic | 4.2 | 0.52 |
| RB11-47-1315 | Arsenic | 4.2 | 0.51 |
| RB11-63-1315 | Arsenic | 4.2 | 0.52 |
| RB11-42-1820 | Arsenic | 4.2 | 0.53 |
| RB11-37-0305 | Arsenic | 4.3 | 0.52 |
| RB11-58-0305 | Arsenic | 4.3 | 0.52 |
| RB11-62-0305FD | Arsenic | 4.3 | 0.53 |
| RB11-64-0305FD | Arsenic | 4.3 | 0.53 |
| RB11-50-1820 | Arsenic | 4.3 | 0.51 |
| RB11-BG03-2325 | Arsenic | 4.3 | 0.54 |
| RB11-63-2830 | Arsenic | 4.3 | 0.51 |
| RB11-62-0305 | Arsenic | 4.4 | 0.53 |
| RB11-64-0305 | Arsenic | 4.4 | 0.53 |
| RB11-49-0305FD | Arsenic | 4.4 | 0.52 |
| RB11-54-0305FD | Arsenic | 4.4 | 1.1 |
| RB11-49-1315 | Arsenic | 4.4 | 0.53 |
| RB11-45-2325 | Arsenic | 4.4 | 0.54 |
| RB11-62-2325 | Arsenic | 4.4 | 0.51 |
| RB11-44-2830 | Arsenic | 4.4 | 0.52 |
| RB11-41-0810 | Arsenic | 4.5 | 0.53 |
| RB11-53-0810 | Arsenic | 4.5 | 1 |
| RB11-59-0810 | Arsenic | 4.5 | 0.51 |
| RB11-43-0305FD | Arsenic | 4.6 | 0.51 |
| RB11-50-0810 | Arsenic | 4.6 | 0.55 |
| RB11-BG04-0810 | Arsenic | 4.6 | 0.53 |
| RB11-BG03-0810 | Arsenic | 4.7 | 0.53 |
| RB11-61-1315 | Arsenic | 4.7 | 0.51 |
| RB11-48-0305FD | Arsenic | 4.8 | 0.54 |
| RB11-BG05-2830 | Arsenic | 4.8 | 0.5 |
| RB11-39-0305 | Arsenic | 4.9 | 0.54 |
| RB11-BG03-0305 | Arsenic | 4.9 | 0.52 |
| RB11-63-0305 | Arsenic | 5 | 0.54 |
| RB11-44-2325 | Arsenic | 5 | 0.56 |
| RB11-47-0305 | Arsenic | 5.1 | 0.51 |
| RB11-53-2830 | Arsenic | 5.1 | 1.1 |
| RB11-44-0305 | Arsenic | 5.2 | 0.51 |
| RB11-BG06-0305FD | Arsenic | 5.2 | 0.52 |
| RB11-55-2325 | Arsenic | 5.3 | 0.59 |
| RB11-59-0305 | Arsenic | 5.4 | 0.52 |
| RB11-59-1820 | Arsenic | 5.5 | 0.51 |
| RB11-46-2830 | Arsenic | 5.7 | 0.55 |
| RB11-59-1315 | Arsenic | 5.8 | 0.51 |
| RB11-BG05-0305 | Arsenic | 6.1 | 0.52 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG06-0810 | Arsenic | 6.3 | 0.53 |
| RB11-64-0810 | Arsenic | 6.9 | 0.53 |
| RB11-60-0305FD | Arsenic | 8 | 0.52 |
| RB11-48-0305 | Arsenic | 8.8 | 0.51 |
| RB11-61-0305 | Arsenic | 10.1 | 0.52 |
| RB11-60-0305 | Arsenic | 12.3 | 0.51 |
| RB11-60-2830 | Arsenic | 12.4 | 0.51 |
| RB11-61-0810 | Arsenic | 13.5 | 0.51 |
| RB11-60-0810 | Arsenic | 14.7 | 0.52 |
| RB11-63-2325 | Barium | 18.1 | 2 |
| RB11-BG04-1820 | Barium | 21.1 | 2 |
| RB11-64-2325 | Barium | 22 | 2 |
| RB11-57-2325 | Barium | 23.1 | 2 |
| RB11-61-1820 | Barium | 24.6 | 2 |
| RB11-59-2325 | Barium | 25.7 | 2 |
| RB11-BG04-2325 | Barium | 26 | 2 |
| RB11-BG06-2830 | Barium | 27.2 | 2.2 |
| RB11-54-2325 | Barium | 28.9 | 2 |
| RB11-BG06-1820 | Barium | 29.2 | 2 |
| RB11-63-1820 | Barium | 29.7 | 2.1 |
| RB11-57-2830 | Barium | 32.1 | 2 |
| RB11-55-1315 | Barium | 32.6 | 2.1 |
| RB11-51-2325 | Barium | 33.2 | 2.1 |
| RB11-52-2325 | Barium | 33.7 | 2 |
| RB11-58-2325 | Barium | 33.7 | 2 |
| RB11-60-1820 | Barium | 35.3 | 2.1 |
| RB11-BG05-1820 | Barium | 35.3 | 2 |
| RB11-49-2830 | Barium | 38 | 2.1 |
| RB11-BG06-2325 | Barium | 39.3 | 2 |
| RB11-64-1315 | Barium | 39.8 | 2.1 |
| RB11-52-1820 | Barium | 40.6 | 2 |
| RB11-39-1820 | Barium | 40.7 | 2 |
| RB11-53-1820 | Barium | 41 | 2 |
| RB11-62-2830 | Barium | 41.1 | 2 |
| RB11-40-1820 | Barium | 43.3 | 2 |
| RB11-BG03-1820 | Barium | 43.7 | 2 |
| RB11-43-2325 | Barium | 44 | 2 |
| RB11-58-2830 | Barium | 45.6 | 2 |
| RB11-41-1820 | Barium | 46.1 | 2 |
| RB11-61-2830 | Barium | 46.7 | 2 |
| RB11-52-0810 | Barium | 47 | 2.1 |
| RB11-46-1820 | Barium | 48.5 | 2 |
| RB11-53-1315 | Barium | 49.6 | 2 |
| RB11-59-0810 | Barium | 50.7 | 2 |
| RB11-47-1820 | Barium | 51 | 2 |
| RB11-BG05-1315 | Barium | 52.5 | 2 |
| RB11-53-2325 | Barium | 53 | 2 |
| RB11-61-2325 | Barium | 53.6 | 2 |
| RB11-54-1315 | Barium | 53.7 | 2.1 |
| RB11-51-1820 | Barium | 54.9 | 2.1 |
| RB11-61-1315 | Barium | 55.3 | 2 |
| RB11-BG04-1315 | Barium | 55.5 | 2.1 |
| RB11-63-2830 | Barium | 55.5 | 2 |
| RB11-39-1315 | Barium | 55.8 | 2 |
| RB11-45-1820 | Barium | 56.2 | 2 |
| RB11-57-1315 | Barium | 57.2 | 2 |
| RB11-58-1820 | Barium | 57.2 | 2 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-41-1315 | Barium | 58 | 2 |
| RB11-45-1315 | Barium | 58.8 | 2 |
| RB11-37-1820 | Barium | 59 | 2 |
| RB11-46-0305 | Barium | 60.7 | 2.1 |
| RB11-50-1315 | Barium | 60.7 | 2 |
| RB11-62-2325 | Barium | 61 | 2 |
| RB11-BG04-2830 | Barium | 61.8 | 2 |
| RB11-54-1820 | Barium | 62.2 | 2 |
| RB11-43-0810 | Barium | 62.8 | 2.1 |
| RB11-60-1315 | Barium | 63.4 | 2 |
| RB11-39-0810 | Barium | 63.5 | 2.1 |
| RB11-49-2325 | Barium | 63.8 | 2 |
| RB11-46-2325 | Barium | 64.8 | 2.3 |
| RB11-BG05-2325 | Barium | 64.9 | 2.3 |
| RB11-43-2830 | Barium | 66.8 | 2 |
| RB11-60-2830 | Barium | 67 | 2.1 |
| RB11-63-0810 | Barium | 67.1 | 2.2 |
| RB11-BG03-1315 | Barium | 67.3 | 2 |
| RB11-64-1820 | Barium | 68.4 | 2.1 |
| RB11-48-1820 | Barium | 68.8 | 2.1 |
| RB11-55-1820 | Barium | 69.7 | 2.2 |
| RB11-58-1315 | Barium | 69.9 | 2 |
| RB11-48-1315 | Barium | 70.3 | 2 |
| RB11-62-0810 | Barium | 71.9 | 2 |
| RB11-BG06-1315 | Barium | 72.2 | 2.1 |
| RB11-62-1315 | Barium | 74 | 2 |
| RB11-51-2830 | Barium | 74.8 | 2.1 |
| RB11-55-2830 | Barium | 75 | 2.2 |
| RB11-44-1820 | Barium | 75.1 | 2.1 |
| RB11-38-1820 | Barium | 77 | 2.1 |
| RB11-51-0305 | Barium | 77.6 | 2.1 |
| RB11-49-1820 | Barium | 78 | 2.1 |
| RB11-47-2830 | Barium | 78.7 | 2.1 |
| RB11-55-2325 | Barium | 79.4 | 2.4 |
| RB11-43-1820 | Barium | 80.2 | 2 |
| RB11-48-2830 | Barium | 82 | 2.1 |
| RB11-43-1315 | Barium | 85.6 | 2.1 |
| RB11-38-1315 | Barium | 85.8 | 2.1 |
| RB11-59-1315 | Barium | 88.3 | 2 |
| RB11-BG06-0810 | Barium | 88.7 | 2.1 |
| RB11-BG03-2325 | Barium | 89.5 | 2.2 |
| RB11-57-0810 | Barium | 89.7 | 2.1 |
| RB11-BG03-0305 | Barium | 90.3 | 2.1 |
| RB11-50-2830 | Barium | 90.5 | 2.1 |
| RB11-64-0810 | Barium | 90.8 | 2.1 |
| RB11-45-0305 | Barium | 91.4 | 2.1 |
| RB11-50-2325 | Barium | 93.2 | 2.1 |
| RB11-56-1315 | Barium | 93.3 | 2 |
| RB11-50-1820 | Barium | 95 | 2.1 |
| RB11-45-0810 | Barium | 98.6 | 2.1 |
| RB11-40-1315 | Barium | 100 | 2 |
| RB11-46-1315 | Barium | 102 | 2 |
| RB11-47-2325 | Barium | 102 | 2.1 |
| RB11-46-2830 | Barium | 106 | 2.2 |
| RB11-42-1315 | Barium | 107 | 2 |
| RB11-BG05-2830 | Barium | 107 | 2 |
| RB11-52-2830 | Barium | 108 | 2.2 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-49-0810 | Barium | 110 | 2.1 |
| RB11-61-0810 | Barium | 110 | 2 |
| RB11-BG05-0810 | Barium | 110 | 2.2 |
| RB11-47-1315 | Barium | 110 | 2 |
| RB11-49-0305 | Barium | 111 | 2.1 |
| RB11-63-1315 | Barium | 112 | 2.1 |
| RB11-61-0305 | Barium | 113 | 2.1 |
| RB11-58-0305FD | Barium | 113 | 2.1 |
| RB11-41-0305 | Barium | 115 | 2.1 |
| RB11-59-0305 | Barium | 115 | 2.1 |
| RB11-64-0305FD | Barium | 115 | 2.1 |
| RB11-52-0305 | Barium | 116 | 2.1 |
| RB11-40-0305 | Barium | 117 | 2.1 |
| RB11-44-0305 | Barium | 117 | 2 |
| RB11-62-1820 | Barium | 117 | 2 |
| RB11-56-2830 | Barium | 117 | 2.1 |
| RB11-37-1315 | Barium | 118 | 2.1 |
| RB11-38-0305 | Barium | 120 | 2.1 |
| RB11-60-0810 | Barium | 121 | 2.1 |
| RB11-43-0305 | Barium | 123 | 2.1 |
| RB11-48-0810 | Barium | 124 | 2.1 |
| RB11-50-0810 | Barium | 124 | 2.2 |
| RB11-64-0810FD | Barium | 125 | 2.1 |
| RB11-59-1820 | Barium | 125 | 2 |
| RB11-57-1820 | Barium | 126 | 2.1 |
| RB11-42-0305 | Barium | 129 | 2.1 |
| RB11-BG03-2830 | Barium | 131 | 2.1 |
| RB11-43-0305FD | Barium | 132 | 2.1 |
| RB11-56-0305FD | Barium | 132 | 2.1 |
| RB11-38-0810 | Barium | 132 | 2.1 |
| RB11-37-0305 | Barium | 133 | 2.1 |
| RB11-55-0810 | Barium | 133 | 2.1 |
| RB11-39-0305 | Barium | 135 | 2.2 |
| RB11-50-0305 | Barium | 135 | 2.1 |
| RB11-56-2325 | Barium | 135 | 2 |
| RB11-58-0810 | Barium | 137 | 2.1 |
| RB11-38-0305FD | Barium | 138 | 2.1 |
| RB11-BG03-0810 | Barium | 138 | 2.1 |
| RB11-51-1315 | Barium | 138 | 2.1 |
| RB11-42-0810 | Barium | 139 | 2.1 |
| RB11-53-0305FD | Barium | 144 | 2.1 |
| RB11-BG06-0305FD | Barium | 144 | 2.1 |
| RB11-52-1315 | Barium | 145 | 2.1 |
| RB11-56-0305 | Barium | 146 | 2.1 |
| RB11-44-2830 | Barium | 146 | 2.1 |
| RB11-BG06-0305 | Barium | 147 | 2.1 |
| RB11-42-1820 | Barium | 150 | 2.1 |
| RB11-54-0305 | Barium | 152 | 2.1 |
| RB11-51-0305FD | Barium | 153 | 2.1 |
| RB11-54-0810 | Barium | 153 | 2.1 |
| RB11-46-0305FD | Barium | 154 | 2.1 |
| RB11-48-2325 | Barium | 155 | 2.1 |
| RB11-57-0305 | Barium | 156 | 2.1 |
| RB11-58-0305 | Barium | 156 | 2.1 |
| RB11-54-2830 | Barium | 158 | 2 |
| RB11-47-0305 | Barium | 160 | 2.1 |
| RB11-54-0305FD | Barium | 163 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-49-0305FD | Barium | 164 | 2.1 |
| RB11-BG04-0305FD | Barium | 164 | 2.2 |
| RB11-55-0305 | Barium | 165 | 2.1 |
| RB11-47-0810 | Barium | 166 | 2.2 |
| RB11-48-0305FD | Barium | 168 | 2.1 |
| RB11-45-2325 | Barium | 168 | 2.2 |
| RB11-40-0305FD | Barium | 172 | 2.1 |
| RB11-53-0810 | Barium | 173 | 2.1 |
| RB11-40-0810 | Barium | 175 | 2.1 |
| RB11-53-2830 | Barium | 179 | 2.2 |
| RB11-51-0810 | Barium | 180 | 2.2 |
| RB11-60-2325 | Barium | 187 | 2 |
| RB11-44-2325 | Barium | 194 | 2.2 |
| RB11-48-0305 | Barium | 197 | 2.1 |
| RB11-44-0305FD | Barium | 197 | 2.1 |
| RB11-60-0305FD | Barium | 198 | 2.1 |
| RB11-49-1315 | Barium | 199 | 2.1 |
| RB11-62-0305FD | Barium | 201 | 2.1 |
| RB11-37-0810 | Barium | 202 | 2.1 |
| RB11-56-0810 | Barium | 204 | 2.1 |
| RB11-BG04-0810 | Barium | 204 | 2.1 |
| RB11-56-1820 | Barium | 205 | 2 |
| RB11-41-0810 | Barium | 207 | 2.1 |
| RB11-44-0810 | Barium | 210 | 2.1 |
| RB11-45-2830 | Barium | 212 | 2.1 |
| RB11-44-1315 | Barium | 213 | 2.1 |
| RB11-BG04-0305 | Barium | 216 | 2.1 |
| RB11-62-0305 | Barium | 220 | 2.1 |
| RB11-BG05-0305 | Barium | 223 | 2.1 |
| RB11-46-0810 | Barium | 230 | 2.1 |
| RB11-60-0305 | Barium | 231 | 2.1 |
| RB11-53-0305 | Barium | 292 | 2.1 |
| RB11-63-0305 | Barium | 315 | 2.2 |
| RB11-59-2830 | Barium | 333 | 2 |
| RB11-64-0305 | Barium | 438 | 2.1 |
| RB11-49-2325 | Beryllium | 0.31 | 0.31 |
| RB11-45-0810 | Beryllium | 0.32 | 0.31 |
| RB11-57-1315 | Beryllium | 0.32 | 0.31 |
| RB11-57-2830 | Beryllium | 0.32 | 0.3 |
| RB11-61-2830 | Beryllium | 0.32 | 0.3 |
| RB11-37-1315 | Beryllium | 0.33 | 0.31 |
| RB11-41-1820 | Beryllium | 0.33 | 0.31 |
| RB11-45-1820 | Beryllium | 0.33 | 0.31 |
| RB11-54-2325 | Beryllium | 0.33 | 0.3 |
| RB11-BG04-2325 | Beryllium | 0.33 | 0.31 |
| RB11-39-0810 | Beryllium | 0.34 | 0.32 |
| RB11-60-1315 | Beryllium | 0.34 | 0.3 |
| RB11-BG05-1315 | Beryllium | 0.34 | 0.3 |
| RB11-46-1820 | Beryllium | 0.34 | 0.3 |
| RB11-53-1820 | Beryllium | 0.34 | 0.3 |
| RB11-49-0305 | Beryllium | 0.35 | 0.31 |
| RB11-64-0305 | Beryllium | 0.35 | 0.32 |
| RB11-44-0305FD | Beryllium | 0.35 | 0.31 |
| RB11-64-0810FD | Beryllium | 0.35 | 0.32 |
| RB11-58-1315 | Beryllium | 0.35 | 0.3 |
| RB11-54-1820 | Beryllium | 0.35 | 0.3 |
| RB11-51-2325 | Beryllium | 0.35 | 0.32 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-61-1315 | Beryllium | 0.36 | 0.31 |
| RB11-43-1820 | Beryllium | 0.36 | 0.31 |
| RB11-53-2325 | Beryllium | 0.36 | 0.31 |
| RB11-BG04-2830 | Beryllium | 0.36 | 0.3 |
| RB11-44-0305 | Beryllium | 0.37 | 0.31 |
| RB11-59-0810 | Beryllium | 0.37 | 0.3 |
| RB11-38-1820 | Beryllium | 0.37 | 0.31 |
| RB11-50-2325 | Beryllium | 0.37 | 0.31 |
| RB11-59-2830 | Beryllium | 0.37 | 0.3 |
| RB11-37-0305 | Beryllium | 0.38 | 0.31 |
| RB11-38-0305 | Beryllium | 0.38 | 0.32 |
| RB11-45-1315 | Beryllium | 0.38 | 0.3 |
| RB11-BG04-1315 | Beryllium | 0.38 | 0.31 |
| RB11-46-0810 | Beryllium | 0.39 | 0.31 |
| RB11-53-0810 | Beryllium | 0.39 | 0.31 |
| RB11-41-1315 | Beryllium | 0.39 | 0.31 |
| RB11-43-1315 | Beryllium | 0.39 | 0.31 |
| RB11-51-1820 | Beryllium | 0.39 | 0.31 |
| RB11-64-1820 | Beryllium | 0.39 | 0.31 |
| RB11-43-2830 | Beryllium | 0.39 | 0.31 |
| RB11-45-2830 | Beryllium | 0.39 | 0.31 |
| RB11-58-2830 | Beryllium | 0.39 | 0.3 |
| RB11-56-0305 | Beryllium | 0.4 | 0.31 |
| RB11-59-0305 | Beryllium | 0.4 | 0.31 |
| RB11-60-0305 | Beryllium | 0.4 | 0.31 |
| RB11-61-0305 | Beryllium | 0.4 | 0.31 |
| RB11-BG06-0305FD | Beryllium | 0.4 | 0.31 |
| RB11-63-0810 | Beryllium | 0.4 | 0.33 |
| RB11-40-1820 | Beryllium | 0.4 | 0.3 |
| RB11-56-2325 | Beryllium | 0.4 | 0.31 |
| RB11-60-2325 | Beryllium | 0.4 | 0.31 |
| RB11-39-0305 | Beryllium | 0.41 | 0.32 |
| RB11-52-0305 | Beryllium | 0.41 | 0.32 |
| RB11-46-1315 | Beryllium | 0.41 | 0.31 |
| RB11-48-1315 | Beryllium | 0.41 | 0.31 |
| RB11-56-1315 | Beryllium | 0.41 | 0.3 |
| RB11-60-2830 | Beryllium | 0.41 | 0.31 |
| RB11-51-0305 | Beryllium | 0.42 | 0.31 |
| RB11-53-0305FD | Beryllium | 0.42 | 0.31 |
| RB11-37-0810 | Beryllium | 0.42 | 0.32 |
| RB11-42-0810 | Beryllium | 0.42 | 0.31 |
| RB11-59-1820 | Beryllium | 0.42 | 0.3 |
| RB11-61-2325 | Beryllium | 0.42 | 0.3 |
| RB11-40-0810 | Beryllium | 0.43 | 0.32 |
| RB11-43-0810 | Beryllium | 0.43 | 0.31 |
| RB11-44-1315 | Beryllium | 0.43 | 0.31 |
| RB11-59-1315 | Beryllium | 0.43 | 0.3 |
| RB11-62-2325 | Beryllium | 0.43 | 0.3 |
| RB11-40-0305 | Beryllium | 0.44 | 0.31 |
| RB11-46-0305 | Beryllium | 0.44 | 0.32 |
| RB11-50-0305 | Beryllium | 0.44 | 0.31 |
| RB11-56-0305FD | Beryllium | 0.44 | 0.32 |
| RB11-60-0305FD | Beryllium | 0.44 | 0.31 |
| RB11-49-0810 | Beryllium | 0.44 | 0.31 |
| RB11-BG03-0810 | Beryllium | 0.44 | 0.32 |
| RB11-40-1315 | Beryllium | 0.44 | 0.3 |
| RB11-50-1315 | Beryllium | 0.44 | 0.31 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-46-2830 | Beryllium | 0.44 | 0.33 |
| RB11-48-0810 | Beryllium | 0.45 | 0.32 |
| RB11-60-0810 | Beryllium | 0.45 | 0.31 |
| RB11-46-0305FD | Beryllium | 0.46 | 0.31 |
| RB11-49-1820 | Beryllium | 0.46 | 0.31 |
| RB11-56-2830 | Beryllium | 0.46 | 0.31 |
| RB11-BG05-2830 | Beryllium | 0.46 | 0.3 |
| RB11-57-0305 | Beryllium | 0.47 | 0.32 |
| RB11-50-0810 | Beryllium | 0.47 | 0.33 |
| RB11-54-0810 | Beryllium | 0.47 | 0.32 |
| RB11-61-0810 | Beryllium | 0.47 | 0.31 |
| RB11-52-1315 | Beryllium | 0.47 | 0.31 |
| RB11-49-2830 | Beryllium | 0.47 | 0.31 |
| RB11-50-2830 | Beryllium | 0.47 | 0.31 |
| RB11-63-0305 | Beryllium | 0.48 | 0.32 |
| RB11-64-0305FD | Beryllium | 0.48 | 0.32 |
| RB11-42-1315 | Beryllium | 0.48 | 0.31 |
| RB11-47-1315 | Beryllium | 0.48 | 0.31 |
| RB11-51-1315 | Beryllium | 0.48 | 0.31 |
| RB11-54-2830 | Beryllium | 0.48 | 0.31 |
| RB11-41-0305 | Beryllium | 0.49 | 0.31 |
| RB11-45-0305 | Beryllium | 0.49 | 0.31 |
| RB11-44-0810 | Beryllium | 0.49 | 0.31 |
| RB11-49-1315 | Beryllium | 0.49 | 0.32 |
| RB11-BG05-2325 | Beryllium | 0.49 | 0.34 |
| RB11-55-2830 | Beryllium | 0.49 | 0.33 |
| RB11-54-0305 | Beryllium | 0.5 | 0.31 |
| RB11-51-0305FD | Beryllium | 0.5 | 0.31 |
| RB11-47-0810 | Beryllium | 0.5 | 0.33 |
| RB11-44-1820 | Beryllium | 0.5 | 0.31 |
| RB11-55-1820 | Beryllium | 0.5 | 0.32 |
| RB11-54-0305FD | Beryllium | 0.51 | 0.32 |
| RB11-53-0305 | Beryllium | 0.52 | 0.32 |
| RB11-55-0305 | Beryllium | 0.52 | 0.31 |
| RB11-BG06-0810 | Beryllium | 0.52 | 0.32 |
| RB11-52-2830 | Beryllium | 0.52 | 0.32 |
| RB11-48-0305 | Beryllium | 0.53 | 0.31 |
| RB11-42-1820 | Beryllium | 0.53 | 0.32 |
| RB11-47-2830 | Beryllium | 0.53 | 0.32 |
| RB11-51-2830 | Beryllium | 0.53 | 0.32 |
| RB11-43-0305 | Beryllium | 0.54 | 0.31 |
| RB11-58-0305FD | Beryllium | 0.54 | 0.32 |
| RB11-51-0810 | Beryllium | 0.54 | 0.33 |
| RB11-64-0810 | Beryllium | 0.54 | 0.32 |
| RB11-50-1820 | Beryllium | 0.54 | 0.31 |
| RB11-BG03-2830 | Beryllium | 0.54 | 0.31 |
| RB11-58-0305 | Beryllium | 0.55 | 0.31 |
| RB11-56-0810 | Beryllium | 0.55 | 0.31 |
| RB11-44-2325 | Beryllium | 0.55 | 0.33 |
| RB11-45-2325 | Beryllium | 0.55 | 0.32 |
| RB11-47-2325 | Beryllium | 0.55 | 0.32 |
| RB11-48-2325 | Beryllium | 0.55 | 0.31 |
| RB11-BG05-0305 | Beryllium | 0.56 | 0.31 |
| RB11-42-0305 | Beryllium | 0.57 | 0.31 |
| RB11-55-0810 | Beryllium | 0.58 | 0.31 |
| RB11-44-2830 | Beryllium | 0.58 | 0.31 |
| RB11-49-0305FD | Beryllium | 0.59 | 0.31 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-1820 | Beryllium | 0.6 | 0.3 |
| RB11-62-0305 | Beryllium | 0.61 | 0.32 |
| RB11-43-0305FD | Beryllium | 0.62 | 0.31 |
| RB11-62-0305FD | Beryllium | 0.62 | 0.32 |
| RB11-41-0810 | Beryllium | 0.62 | 0.32 |
| RB11-53-2830 | Beryllium | 0.65 | 0.32 |
| RB11-BG04-0810 | Beryllium | 0.66 | 0.32 |
| RB11-55-2325 | Beryllium | 0.66 | 0.36 |
| RB11-BG04-0305FD | Beryllium | 0.69 | 0.32 |
| RB11-47-0305 | Beryllium | 0.71 | 0.31 |
| RB11-48-0305FD | Beryllium | 0.71 | 0.32 |
| RB11-BG04-0305 | Beryllium | 0.73 | 0.32 |
| RB11-40-0305FD | Beryllium | 0.73 | 0.31 |
| RB11-63-2830 | Beryllium | 0.86 | 0.3 |
| RB11-BG03-0305 | Beryllium | 0.87 | 0.31 |
| RB11-63-1820 | bis(2-Ethylhexyl)phthalate | 0.22 | 0.34 |
| RB11-62-1820 | bis(2-Ethylhexyl)phthalate | 0.23 | 0.34 |
| RB11-57-2830 | bis(2-Ethylhexyl)phthalate | 0.34 | 0.34 |
| RB11-53-2325 | bis(2-Ethylhexyl)phthalate | 0.35 | 0.34 |
| RB11-BG05-0305 | bis(2-Ethylhexyl)phthalate | 0.36 | 0.34 |
| RB11-42-1315 | bis(2-Ethylhexyl)phthalate | 0.36 | 0.33 |
| RB11-BG05-1820 | bis(2-Ethylhexyl)phthalate | 0.36 | 0.34 |
| RB11-48-0305FD | bis(2-Ethylhexyl)phthalate | 0.37 | 0.35 |
| RB11-54-0305FD | bis(2-Ethylhexyl)phthalate | 0.37 | 0.35 |
| RB11-BG03-1315 | bis(2-Ethylhexyl)phthalate | 0.37 | 0.34 |
| RB11-63-2325 | bis(2-Ethylhexyl)phthalate | 0.37 | 0.34 |
| RB11-BG06-0305 | bis(2-Ethylhexyl)phthalate | 0.38 | 0.35 |
| RB11-41-1820 | bis(2-Ethylhexyl)phthalate | 0.38 | 0.34 |
| RB11-54-1315 | bis(2-Ethylhexyl)phthalate | 0.39 | 0.35 |
| RB11-52-2325 | bis(2-Ethylhexyl)phthalate | 0.39 | 0.34 |
| RB11-64-0305FD | bis(2-Ethylhexyl)phthalate | 0.4 | 0.35 |
| RB11-47-0810 | bis(2-Ethylhexyl)phthalate | 0.4 | 0.37 |
| RB11-37-1315 | bis(2-Ethylhexyl)phthalate | 0.4 | 0.34 |
| RB11-44-2830 | bis(2-Ethylhexyl)phthalate | 0.4 | 0.34 |
| RB11-62-2830 | bis(2-Ethylhexyl)phthalate | 0.4 | 0.34 |
| RB11-54-0305 | bis(2-Ethylhexyl)phthalate | 0.43 | 0.34 |
| RB11-64-2325 | bis(2-Ethylhexyl)phthalate | 0.42 | 0.34 |
| RB11-BG03-0305 | bis(2-Ethylhexyl)phthalate | 0.43 | 0.35 |
| RB11-56-0305 | bis(2-Ethylhexyl)phthalate | 0.44 | 0.34 |
| RB11-37-0810 | bis(2-Ethylhexyl)phthalate | 0.46 | 0.35 |
| RB11-39-1315 | bis(2-Ethylhexyl)phthalate | 0.46 | 0.33 |
| RB11-52-2830 | bis(2-Ethylhexyl)phthalate | 0.46 | 0.36 |
| RB11-BG05-2830 | bis(2-Ethylhexyl)phthalate | 0.48 | 0.33 |
| RB11-62-0305 | bis(2-Ethylhexyl)phthalate | 0.49 | 0.35 |
| RB11-46-0305FD | bis(2-Ethylhexyl)phthalate | 0.5 | 0.34 |
| RB11-59-1315 | bis(2-Ethylhexyl)phthalate | 0.5 | 0.33 |
| RB11-BG03-2325 | bis(2-Ethylhexyl)phthalate | 0.5 | 0.36 |
| RB11-43-0810 | bis(2-Ethylhexyl)phthalate | 0.51 | 0.34 |
| RB11-44-1820 | bis(2-Ethylhexyl)phthalate | 0.51 | 0.34 |
| RB11-BG04-2325 | bis(2-Ethylhexyl)phthalate | 0.52 | 0.34 |
| RB11-41-0810 | bis(2-Ethylhexyl)phthalate | 0.54 | 0.35 |
| RB11-62-2325 | bis(2-Ethylhexyl)phthalate | 0.54 | 0.33 |
| RB11-60-0810 | bis(2-Ethylhexyl)phthalate | 0.55 | 0.34 |
| RB11-BG04-0810 | bis(2-Ethylhexyl)phthalate | 0.55 | 0.35 |
| RB11-62-0305FD | bis(2-Ethylhexyl)phthalate | 0.56 | 0.35 |
| RB11-44-0305 | bis(2-Ethylhexyl)phthalate | 0.57 | 0.34 |
| RB11-BG03-0810 | bis(2-Ethylhexyl)phthalate | 0.57 | 0.35 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG06-1315 | bis(2-Ethylhexyl)phthalate | 0.63 | 0.34 |
| RB11-BG05-1315 | bis(2-Ethylhexyl)phthalate | 0.64 | 0.33 |
| RB11-46-1315 | bis(2-Ethylhexyl)phthalate | 0.67 | 0.34 |
| RB11-50-2325 | bis(2-Ethylhexyl)phthalate | 0.68 | 0.34 |
| RB11-44-0810 | bis(2-Ethylhexyl)phthalate | 0.74 | 0.34 |
| RB11-BG06-2325 | bis(2-Ethylhexyl)phthalate | 0.74 | 0.34 |
| RB11-63-0810 | bis(2-Ethylhexyl)phthalate | 0.78 | 0.36 |
| RB11-64-1820 | bis(2-Ethylhexyl)phthalate | 0.81 | 0.34 |
| RB11-58-0305FD | bis(2-Ethylhexyl)phthalate | 0.82 | 0.35 |
| RB11-64-0810FD | bis(2-Ethylhexyl)phthalate | 0.87 | 0.35 |
| RB11-44-2325 | bis(2-Ethylhexyl)phthalate | 0.88 | 0.37 |
| RB11-44-1315 | bis(2-Ethylhexyl)phthalate | 0.9 | 0.34 |
| RB11-60-2325 | bis(2-Ethylhexyl)phthalate | 0.94 | 0.34 |
| RB11-63-0305 | bis(2-Ethylhexyl)phthalate | 0.97 | 0.36 |
| RB11-58-1315 | bis(2-Ethylhexyl)phthalate | 0.98 | 0.33 |
| RB11-43-1820 | bis(2-Ethylhexyl)phthalate | 1 | 0.34 |
| RB11-43-2830 | bis(2-Ethylhexyl)phthalate | 1 | 0.33 |
| RB11-45-2830 | bis(2-Ethylhexyl)phthalate | 1 | 0.34 |
| RB11-45-1315 | bis(2-Ethylhexyl)phthalate | 1.1 | 0.34 |
| RB11-53-2830 | bis(2-Ethylhexyl)phthalate | 1.2 | 0.36 |
| RB11-BG06-2830 | bis(2-Ethylhexyl)phthalate | 1.2 | 0.36 |
| RB11-40-0305 | bis(2-Ethylhexyl)phthalate | 1.3 | 0.34 |
| RB11-48-1315 | bis(2-Ethylhexyl)phthalate | 1.4 | 0.34 |
| RB11-55-0810 | bis(2-Ethylhexyl)phthalate | 1.6 | 0.35 |
| RB11-50-0305 | bis(2-Ethylhexyl)phthalate | 1.7 | 0.35 |
| RB11-49-0810 | bis(2-Ethylhexyl)phthalate | 1.9 | 0.35 |
| RB11-42-0810 | bis(2-Ethylhexyl)phthalate | 2.1 | 0.34 |
| RB11-45-1820 | bis(2-Ethylhexyl)phthalate | 2.1 | 0.34 |
| RB11-BG04-0305FD | bis(2-Ethylhexyl)phthalate | 2.2 | 0.35 |
| RB11-44-0305FD | bis(2-Ethylhexyl)phthalate | 2.3 | 0.34 |
| RB11-47-0305 | bis(2-Ethylhexyl)phthalate | 3.4 | 0.34 |
| RB11-43-0305FD | bis(2-Ethylhexyl)phthalate | 5.2 | 0.67 |
| RB11-58-0305 | bis(2-Ethylhexyl)phthalate | 5.8 | 0.69 |
| RB11-56-1315 | bis(2-Ethylhexyl)phthalate | 5.8 | 0.67 |
| RB11-53-1820 | bis(2-Ethylhexyl)phthalate | 5.8 | 0.67 |
| RB11-59-0810 | bis(2-Ethylhexyl)phthalate | 11 | 1.7 |
| RB11-BG06-1820 | bis(2-Ethylhexyl)phthalate | 17 | 3.3 |
| RB11-41-0305 | bis(2-Ethylhexyl)phthalate | 100 | 14 |
| RB11-62-1315 | Calcium | 5060 | 10.2 |
| RB11-43-0810 | Calcium | 11600 | 10.3 |
| RB11-BG06-1315 | Calcium | 12500 | 10.3 |
| RB11-47-2325 | Calcium | 13400 | 11 |
| RB11-61-1315 | Calcium | 13600 | 10.2 |
| RB11-45-0810 | Calcium | 14900 | 10 |
| RB11-53-1315 | Calcium | 17000 | 10.1 |
| RB11-49-2830 | Calcium | 17500 | 10.5 |
| RB11-BG03-2325 | Calcium | 17600 | 10.9 |
| RB11-43-0305FD | Calcium | 18600 | 10.3 |
| RB11-64-1315 | Calcium | 18700 | 10.4 |
| RB11-BG03-1820 | Calcium | 18700 | 10.2 |
| RB11-61-2325 | Calcium | 19600 | 10.1 |
| RB11-43-2830 | Calcium | 19600 | 10.2 |
| RB11-49-1820 | Calcium | 19800 | 10.5 |
| RB11-44-0810 | Calcium | 19900 | 10.4 |
| RB11-47-0305 | Calcium | 20200 | 10 |
| RB11-43-0305 | Calcium | 20400 | 10.4 |
| RB11-46-0305 | Calcium | 20500 | 11 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-50-1315 | Calcium | 20800 | 10.2 |
| RB11-44-2830 | Calcium | 20900 | 10.3 |
| RB11-48-2830 | Calcium | 20900 | 10 |
| RB11-58-1315 | Calcium | 21200 | 10.1 |
| RB11-46-1820 | Calcium | 21300 | 10 |
| RB11-51-2830 | Calcium | 21400 | 10.6 |
| RB11-57-0305 | Calcium | 21700 | 10.7 |
| RB11-44-0305FD | Calcium | 21700 | 10.5 |
| RB11-56-1820 | Calcium | 21800 | 10.2 |
| RB11-61-1820 | Calcium | 22000 | 10.2 |
| RB11-49-2325 | Calcium | 22200 | 10.2 |
| RB11-55-2830 | Calcium | 22500 | 11.1 |
| RB11-60-1315 | Calcium | 22800 | 10.1 |
| RB11-40-0305FD | Calcium | 22900 | 10.4 |
| RB11-46-0305FD | Calcium | 23500 | 10 |
| RB11-56-1315 | Calcium | 23500 | 10.1 |
| RB11-BG05-2325 | Calcium | 23500 | 11.4 |
| RB11-41-1820 | Calcium | 23600 | 10.2 |
| RB11-50-1820 | Calcium | 23600 | 10.3 |
| RB11-52-2830 | Calcium | 23700 | 10.8 |
| RB11-39-1315 | Calcium | 24100 | 10.1 |
| RB11-44-1315 | Calcium | 24100 | 10.4 |
| RB11-55-0305 | Calcium | 24300 | 10.5 |
| RB11-46-0810 | Calcium | 24300 | 10 |
| RB11-44-0305 | Calcium | 24500 | 10.2 |
| RB11-41-0305 | Calcium | 24600 | 10.5 |
| RB11-64-0305FD | Calcium | 24600 | 10.5 |
| RB11-63-1820 | Calcium | 24700 | 10.3 |
| RB11-42-0305 | Calcium | 25100 | 10.4 |
| RB11-53-2325 | Calcium | 25100 | 10.2 |
| RB11-61-2830 | Calcium | 25100 | 10.1 |
| RB11-63-0810 | Calcium | 25500 | 10.9 |
| RB11-57-1315 | Calcium | 25500 | 10.2 |
| RB11-50-2325 | Calcium | 25600 | 10.3 |
| RB11-47-2830 | Calcium | 25600 | 11 |
| RB11-48-0305FD | Calcium | 25800 | 11 |
| RB11-52-0810 | Calcium | 26200 | 10.4 |
| RB11-46-1315 | Calcium | 26200 | 10 |
| RB11-45-0305 | Calcium | 26500 | 10 |
| RB11-59-1820 | Calcium | 26500 | 10.2 |
| RB11-49-0810 | Calcium | 26600 | 10.5 |
| RB11-55-1315 | Calcium | 26600 | 10.4 |
| RB11-BG03-1315 | Calcium | 26800 | 10.2 |
| RB11-37-0305 | Calcium | 27000 | 10.5 |
| RB11-41-1315 | Calcium | 27000 | 10.2 |
| RB11-43-1315 | Calcium | 27100 | 10.3 |
| RB11-BG04-0305 | Calcium | 27300 | 10.6 |
| RB11-39-0305 | Calcium | 27600 | 10.8 |
| RB11-BG06-1820 | Calcium | 27700 | 10.1 |
| RB11-62-0305 | Calcium | 28000 | 10.6 |
| RB11-BG06-2830 | Calcium | 28000 | 10.9 |
| RB11-57-0810 | Calcium | 28400 | 10.4 |
| RB11-38-1820 | Calcium | 28700 | 10.4 |
| RB11-55-0810 | Calcium | 28800 | 10.5 |
| RB11-45-2325 | Calcium | 28900 | 11 |
| RB11-62-0305FD | Calcium | 29000 | 10.5 |
| RB11-48-1315 | Calcium | 29100 | 10 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG04-1315 | Calcium | 29100 | 10.3 |
| RB11-46-2325 | Calcium | 29500 | 11 |
| RB11-BG05-0305 | Calcium | 29600 | 10.4 |
| RB11-51-1820 | Calcium | 29600 | 10.4 |
| RB11-47-1820 | Calcium | 29800 | 10 |
| RB11-49-0305 | Calcium | 29900 | 10.3 |
| RB11-64-1820 | Calcium | 29900 | 10.4 |
| RB11-64-0810 | Calcium | 30100 | 10.7 |
| RB11-55-1820 | Calcium | 30200 | 10.8 |
| RB11-BG06-0810 | Calcium | 30400 | 10.6 |
| RB11-37-1315 | Calcium | 30500 | 10.3 |
| RB11-56-2325 | Calcium | 30500 | 10.2 |
| RB11-61-0810 | Calcium | 30600 | 10.2 |
| RB11-59-2325 | Calcium | 30700 | 10.2 |
| RB11-45-1820 | Calcium | 31100 | 10 |
| RB11-50-0305 | Calcium | 31400 | 10.5 |
| RB11-39-1820 | Calcium | 31400 | 10.1 |
| RB11-51-0810 | Calcium | 31500 | 11 |
| RB11-54-1315 | Calcium | 31700 | 10.5 |
| RB11-49-1315 | Calcium | 31800 | 10.7 |
| RB11-56-0305FD | Calcium | 31900 | 10.6 |
| RB11-53-1820 | Calcium | 32000 | 10.2 |
| RB11-57-1820 | Calcium | 32300 | 10.3 |
| RB11-44-2325 | Calcium | 32400 | 11.1 |
| RB11-47-1315 | Calcium | 32800 | 10 |
| RB11-BG03-0305 | Calcium | 32900 | 10.5 |
| RB11-54-0810 | Calcium | 33100 | 10.5 |
| RB11-BG05-1820 | Calcium | 33100 | 10.2 |
| RB11-38-0305 | Calcium | 33300 | 10.6 |
| RB11-45-1315 | Calcium | 33400 | 10 |
| RB11-50-2830 | Calcium | 33600 | 10.4 |
| RB11-54-2830 | Calcium | 33600 | 10.2 |
| RB11-57-2830 | Calcium | 33600 | 10.2 |
| RB11-58-2830 | Calcium | 33600 | 10.1 |
| RB11-48-2325 | Calcium | 33700 | 10 |
| RB11-54-1820 | Calcium | 34300 | 10.2 |
| RB11-63-2325 | Calcium | 34300 | 10.2 |
| RB11-43-1820 | Calcium | 34400 | 10.2 |
| RB11-58-2325 | Calcium | 34500 | 10.1 |
| RB11-49-0305FD | Calcium | 34600 | 10.3 |
| RB11-BG05-1315 | Calcium | 34600 | 10.1 |
| RB11-56-0305 | Calcium | 34800 | 10.4 |
| RB11-BG04-1820 | Calcium | 34800 | 10.2 |
| RB11-56-2830 | Calcium | 35000 | 10.3 |
| RB11-40-0305 | Calcium | 35100 | 10.4 |
| RB11-44-1820 | Calcium | 35100 | 10.3 |
| RB11-60-2830 | Calcium | 35100 | 10.3 |
| RB11-43-2325 | Calcium | 35200 | 10.2 |
| RB11-60-0305FD | Calcium | 35300 | 10.3 |
| RB11-37-1820 | Calcium | 35500 | 10.1 |
| RB11-42-0810 | Calcium | 35900 | 10.3 |
| RB11-BG04-0305FD | Calcium | 36200 | 10.8 |
| RB11-52-1820 | Calcium | 36500 | 10.2 |
| RB11-39-0810 | Calcium | 36600 | 10.6 |
| RB11-59-0810 | Calcium | 36600 | 10.1 |
| RB11-42-1315 | Calcium | 36700 | 10.2 |
| RB11-40-1820 | Calcium | 36700 | 10.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-52-2325 | Calcium | 36800 | 10.2 |
| RB11-51-2325 | Calcium | 36900 | 10.6 |
| RB11-BG04-2325 | Calcium | 37700 | 10.2 |
| RB11-52-1315 | Calcium | 38100 | 10.5 |
| RB11-54-2325 | Calcium | 38200 | 10.1 |
| RB11-38-0305FD | Calcium | 38400 | 10.7 |
| RB11-59-2830 | Calcium | 38700 | 10.2 |
| RB11-41-0810 | Calcium | 38800 | 10.5 |
| RB11-48-0305 | Calcium | 39500 | 10 |
| RB11-53-0305FD | Calcium | 39700 | 10.5 |
| RB11-40-1315 | Calcium | 39900 | 10.1 |
| RB11-50-0810 | Calcium | 40200 | 11 |
| RB11-63-1315 | Calcium | 40600 | 10.4 |
| RB11-51-1315 | Calcium | 41200 | 10.5 |
| RB11-47-0810 | Calcium | 41300 | 11 |
| RB11-BG05-2830 | Calcium | 41600 | 10 |
| RB11-54-0305FD | Calcium | 41900 | 10.6 |
| RB11-40-0810 | Calcium | 42700 | 10.5 |
| RB11-42-1820 | Calcium | 43100 | 10.6 |
| RB11-45-2830 | Calcium | 43200 | 10 |
| RB11-58-1820 | Calcium | 43400 | 10.1 |
| RB11-55-2325 | Calcium | 44500 | 11.9 |
| RB11-51-0305FD | Calcium | 44700 | 10.5 |
| RB11-58-0305 | Calcium | 45000 | 10.5 |
| RB11-60-0305 | Calcium | 45500 | 10.3 |
| RB11-38-1315 | Calcium | 45500 | 10.3 |
| RB11-53-2830 | Calcium | 45800 | 10.8 |
| RB11-59-1315 | Calcium | 45900 | 10.1 |
| RB11-53-0305 | Calcium | 46800 | 10.5 |
| RB11-52-0305 | Calcium | 47000 | 10.5 |
| RB11-56-0810 | Calcium | 47900 | 10.4 |
| RB11-63-2830 | Calcium | 48100 | 10.1 |
| RB11-54-0305 | Calcium | 48400 | 10.4 |
| RB11-48-0810 | Calcium | 48900 | 11 |
| RB11-BG06-2325 | Calcium | 49600 | 10.2 |
| RB11-51-0305 | Calcium | 49900 | 10.5 |
| RB11-64-0810FD | Calcium | 51200 | 10.5 |
| RB11-58-0810 | Calcium | 51700 | 10.4 |
| RB11-62-2830 | Calcium | 52200 | 10.2 |
| RB11-62-1820 | Calcium | 52300 | 10.2 |
| RB11-58-0305FD | Calcium | 52500 | 10.6 |
| RB11-BG04-2830 | Calcium | 53100 | 10.2 |
| RB11-63-0305 | Calcium | 53400 | 10.8 |
| RB11-BG03-0810 | Calcium | 56300 | 10.6 |
| RB11-37-0810 | Calcium | 56800 | 10.6 |
| RB11-BG04-0810 | Calcium | 56900 | 10.6 |
| RB11-60-2325 | Calcium | 57400 | 10.2 |
| RB11-60-0810 | Calcium | 58500 | 10.3 |
| RB11-57-2325 | Calcium | 58800 | 10.1 |
| RB11-53-0810 | Calcium | 61300 | 10.4 |
| RB11-BG05-0810 | Calcium | 66800 | 11 |
| RB11-61-0305 | Calcium | 66900 | 10.5 |
| RB11-64-2325 | Calcium | 68200 | 10.2 |
| RB11-BG06-0305FD | Calcium | 68300 | 10.4 |
| RB11-62-0810 | Calcium | 71100 | 10.2 |
| RB11-BG03-2830 | Calcium | 72900 | 10.5 |
| RB11-59-0305 | Calcium | 74800 | 10.5 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-46-2830 | Calcium | 80300 | 11 |
| RB11-60-1820 | Calcium | 81000 | 10.3 |
| RB11-62-2325 | Calcium | 82600 | 10.1 |
| RB11-48-1820 | Calcium | 135000 | 103 |
| RB11-BG06-0305 | Calcium | 143000 | 106 |
| RB11-38-0810 | Calcium | 151000 | 103 |
| RB11-64-0305 | Calcium | 168000 | 105 |
| RB11-60-1820 | Chromium | 3.4 | 0.52 |
| RB11-64-2325 | Chromium | 4.1 | 0.51 |
| RB11-57-2325 | Chromium | 4.7 | 0.51 |
| RB11-BG06-2325 | Chromium | 4.8 | 0.51 |
| RB11-64-1315 | Chromium | 4.9 | 0.52 |
| RB11-BG06-2830 | Chromium | 5 | 0.55 |
| RB11-BG04-2325 | Chromium | 5.3 | 0.51 |
| RB11-58-1820 | Chromium | 5.4 | 0.51 |
| RB11-39-1820 | Chromium | 5.5 | 0.51 |
| RB11-62-1820 | Chromium | 5.6 | 0.51 |
| RB11-59-2830 | Chromium | 5.7 | 0.51 |
| RB11-47-1820 | Chromium | 5.8 | 0.51 |
| RB11-62-0810 | Chromium | 5.9 | 0.51 |
| RB11-59-2325 | Chromium | 5.9 | 0.51 |
| RB11-46-2830 | Chromium | 6 | 0.55 |
| RB11-46-0305 | Chromium | 6.1 | 0.53 |
| RB11-52-1820 | Chromium | 6.1 | 0.51 |
| RB11-46-2325 | Chromium | 6.1 | 0.57 |
| RB11-BG04-1820 | Chromium | 6.3 | 0.51 |
| RB11-45-2830 | Chromium | 6.4 | 0.51 |
| RB11-52-0305 | Chromium | 6.5 | 0.53 |
| RB11-40-0810 | Chromium | 6.5 | 0.53 |
| RB11-60-2830 | Chromium | 6.5 | 0.51 |
| RB11-52-0810 | Chromium | 6.6 | 0.52 |
| RB11-BG05-0810 | Chromium | 6.6 | 0.55 |
| RB11-44-0305 | Chromium | 6.7 | 0.51 |
| RB11-38-0305FD | Chromium | 6.7 | 0.54 |
| RB11-62-2830 | Chromium | 6.7 | 0.51 |
| RB11-52-2325 | Chromium | 7 | 0.51 |
| RB11-48-2830 | Chromium | 7.1 | 0.51 |
| RB11-58-2325 | Chromium | 7.2 | 0.51 |
| RB11-58-0305FD | Chromium | 7.3 | 0.53 |
| RB11-57-1315 | Chromium | 7.3 | 0.51 |
| RB11-64-0305 | Chromium | 7.4 | 0.53 |
| RB11-BG06-0305 | Chromium | 7.4 | 0.53 |
| RB11-42-0810 | Chromium | 7.4 | 0.51 |
| RB11-BG03-1315 | Chromium | 7.4 | 0.51 |
| RB11-41-1820 | Chromium | 7.4 | 0.51 |
| RB11-57-1820 | Chromium | 7.4 | 0.51 |
| RB11-54-2325 | Chromium | 7.4 | 0.51 |
| RB11-59-0305 | Chromium | 7.5 | 0.52 |
| RB11-49-0810 | Chromium | 7.5 | 0.52 |
| RB11-63-1315 | Chromium | 7.5 | 0.52 |
| RB11-BG05-1820 | Chromium | 7.5 | 0.51 |
| RB11-BG03-2325 | Chromium | 7.5 | 0.54 |
| RB11-BG04-2830 | Chromium | 7.5 | 0.51 |
| RB11-40-0305 | Chromium | 7.6 | 0.52 |
| RB11-61-0305 | Chromium | 7.6 | 0.52 |
| RB11-61-2325 | Chromium | 7.6 | 0.51 |
| RB11-51-0305FD | Chromium | 7.7 | 0.52 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-60-0305FD | Chromium | 7.8 | 0.52 |
| RB11-49-0305 | Chromium | 7.9 | 0.51 |
| RB11-56-0305 | Chromium | 7.9 | 0.52 |
| RB11-51-1820 | Chromium | 7.9 | 0.52 |
| RB11-62-2325 | Chromium | 7.9 | 0.51 |
| RB11-54-1820 | Chromium | 8 | 0.51 |
| RB11-BG05-2830 | Chromium | 8 | 0.5 |
| RB11-41-0305 | Chromium | 8.1 | 0.52 |
| RB11-39-0810 | Chromium | 8.1 | 0.53 |
| RB11-63-2325 | Chromium | 8.1 | 0.51 |
| RB11-49-1315 | Chromium | 8.3 | 0.53 |
| RB11-61-0810 | Chromium | 8.4 | 0.51 |
| RB11-50-1820 | Chromium | 8.4 | 0.51 |
| RB11-50-0810 | Chromium | 8.6 | 0.55 |
| RB11-55-2830 | Chromium | 8.6 | 0.56 |
| RB11-38-0305 | Chromium | 8.7 | 0.53 |
| RB11-58-0305 | Chromium | 8.7 | 0.52 |
| RB11-38-0810 | Chromium | 8.7 | 0.52 |
| RB11-43-1820 | Chromium | 8.7 | 0.51 |
| RB11-43-2830 | Chromium | 8.7 | 0.51 |
| RB11-52-1315 | Chromium | 8.8 | 0.52 |
| RB11-61-1315 | Chromium | 8.8 | 0.51 |
| RB11-63-1820 | Chromium | 8.9 | 0.51 |
| RB11-63-0305 | Chromium | 9 | 0.54 |
| RB11-37-0305 | Chromium | 9.1 | 0.52 |
| RB11-57-0810 | Chromium | 9.1 | 0.52 |
| RB11-BG03-0810 | Chromium | 9.1 | 0.53 |
| RB11-39-1315 | Chromium | 9.1 | 0.51 |
| RB11-59-1315 | Chromium | 9.1 | 0.51 |
| RB11-BG06-1820 | Chromium | 9.1 | 0.51 |
| RB11-52-2830 | Chromium | 9.1 | 0.54 |
| RB11-48-0810 | Chromium | 9.2 | 0.53 |
| RB11-55-1315 | Chromium | 9.2 | 0.52 |
| RB11-48-1820 | Chromium | 9.2 | 0.51 |
| RB11-60-0305 | Chromium | 9.3 | 0.51 |
| RB11-BG03-2830 | Chromium | 9.3 | 0.52 |
| RB11-39-0305 | Chromium | 9.4 | 0.54 |
| RB11-53-2325 | Chromium | 9.4 | 0.51 |
| RB11-56-0305FD | Chromium | 9.7 | 0.53 |
| RB11-BG06-0305FD | Chromium | 9.7 | 0.52 |
| RB11-45-1820 | Chromium | 9.7 | 0.51 |
| RB11-53-2830 | Chromium | 9.7 | 0.54 |
| RB11-59-0810 | Chromium | 9.8 | 0.51 |
| RB11-50-0305 | Chromium | 9.9 | 0.52 |
| RB11-46-0305FD | Chromium | 9.9 | 0.51 |
| RB11-58-2830 | Chromium | 9.9 | 0.51 |
| RB11-51-0305 | Chromium | 10 | 0.52 |
| RB11-45-2325 | Chromium | 10 | 0.54 |
| RB11-51-2325 | Chromium | 10 | 0.53 |
| RB11-45-0305 | Chromium | 10.2 | 0.52 |
| RB11-37-0810 | Chromium | 10.4 | 0.53 |
| RB11-64-0305FD | Chromium | 10.5 | 0.53 |
| RB11-45-0810 | Chromium | 10.5 | 0.52 |
| RB11-54-1315 | Chromium | 10.5 | 0.53 |
| RB11-53-0810 | Chromium | 10.6 | 0.52 |
| RB11-63-0810 | Chromium | 10.6 | 0.55 |
| RB11-53-1315 | Chromium | 10.8 | 0.51 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG05-1315 | Chromium | 10.8 | 0.51 |
| RB11-40-1820 | Chromium | 10.9 | 0.51 |
| RB11-BG05-2325 | Chromium | 11 | 0.57 |
| RB11-54-0305 | Chromium | 11.2 | 0.52 |
| RB11-BG05-0305 | Chromium | 11.4 | 0.52 |
| RB11-41-0810 | Chromium | 11.4 | 0.53 |
| RB11-60-0810 | Chromium | 11.4 | 0.52 |
| RB11-50-2325 | Chromium | 11.4 | 0.51 |
| RB11-47-0305 | Chromium | 11.5 | 0.51 |
| RB11-43-0305FD | Chromium | 11.5 | 0.51 |
| RB11-48-0305FD | Chromium | 11.5 | 0.54 |
| RB11-51-1315 | Chromium | 11.5 | 0.52 |
| RB11-44-2325 | Chromium | 11.6 | 0.56 |
| RB11-64-1820 | Chromium | 11.7 | 0.52 |
| RB11-58-0810 | Chromium | 11.8 | 0.52 |
| RB11-51-2830 | Chromium | 11.8 | 0.53 |
| RB11-47-0810 | Chromium | 11.9 | 0.55 |
| RB11-55-0305 | Chromium | 12.1 | 0.52 |
| RB11-62-0305 | Chromium | 12.1 | 0.53 |
| RB11-45-1315 | Chromium | 12.2 | 0.51 |
| RB11-38-1820 | Chromium | 12.2 | 0.52 |
| RB11-46-1820 | Chromium | 12.2 | 0.51 |
| RB11-53-0305FD | Chromium | 12.3 | 0.52 |
| RB11-37-1820 | Chromium | 12.3 | 0.51 |
| RB11-57-0305 | Chromium | 12.4 | 0.53 |
| RB11-44-0305FD | Chromium | 12.4 | 0.52 |
| RB11-62-0305FD | Chromium | 12.4 | 0.53 |
| RB11-BG04-1315 | Chromium | 12.5 | 0.52 |
| RB11-BG06-0810 | Chromium | 12.6 | 0.53 |
| RB11-55-1820 | Chromium | 12.6 | 0.54 |
| RB11-47-2325 | Chromium | 12.6 | 0.53 |
| RB11-53-1820 | Chromium | 12.7 | 0.51 |
| RB11-43-2325 | Chromium | 12.9 | 0.51 |
| RB11-46-0810 | Chromium | 13 | 0.51 |
| RB11-54-0810 | Chromium | 13 | 0.53 |
| RB11-56-0810 | Chromium | 13.1 | 0.52 |
| RB11-49-2325 | Chromium | 13.1 | 0.51 |
| RB11-BG04-0810 | Chromium | 13.3 | 0.53 |
| RB11-BG06-1315 | Chromium | 13.3 | 0.51 |
| RB11-BG04-0305 | Chromium | 13.4 | 0.53 |
| RB11-49-0305FD | Chromium | 13.5 | 0.52 |
| RB11-37-1315 | Chromium | 13.6 | 0.51 |
| RB11-47-1315 | Chromium | 13.6 | 0.51 |
| RB11-60-2325 | Chromium | 13.6 | 0.51 |
| RB11-42-0305 | Chromium | 13.8 | 0.52 |
| RB11-43-0305 | Chromium | 13.9 | 0.52 |
| RB11-38-1315 | Chromium | 14.2 | 0.51 |
| RB11-57-2830 | Chromium | 14.2 | 0.51 |
| RB11-63-2830 | Chromium | 14.2 | 0.51 |
| RB11-64-0810 | Chromium | 14.5 | 0.53 |
| RB11-61-2830 | Chromium | 14.5 | 0.51 |
| RB11-40-0305FD | Chromium | 14.6 | 0.52 |
| RB11-41-1315 | Chromium | 14.7 | 0.51 |
| RB11-55-0810 | Chromium | 14.8 | 0.52 |
| RB11-56-2325 | Chromium | 14.9 | 0.51 |
| RB11-BG04-0305FD | Chromium | 15 | 0.54 |
| RB11-54-0305FD | Chromium | 15.3 | 0.53 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-BG03-1820 | Chromium | 15.3 | 0.51 |
| RB11-56-2830 | Chromium | 15.4 | 0.52 |
| RB11-44-2830 | Chromium | 15.5 | 0.52 |
| RB11-50-2830 | Chromium | 15.5 | 0.52 |
| RB11-60-1315 | Chromium | 15.6 | 0.51 |
| RB11-54-2830 | Chromium | 15.6 | 0.51 |
| RB11-44-1315 | Chromium | 16.2 | 0.52 |
| RB11-43-0810 | Chromium | 16.3 | 0.51 |
| RB11-59-1820 | Chromium | 16.3 | 0.51 |
| RB11-BG03-0305 | Chromium | 16.4 | 0.52 |
| RB11-48-1315 | Chromium | 16.4 | 0.51 |
| RB11-56-1315 | Chromium | 16.4 | 0.51 |
| RB11-53-0305 | Chromium | 16.7 | 0.53 |
| RB11-51-0810 | Chromium | 16.7 | 0.55 |
| RB11-40-1315 | Chromium | 17.2 | 0.51 |
| RB11-42-1315 | Chromium | 17.4 | 0.51 |
| RB11-49-1820 | Chromium | 18 | 0.52 |
| RB11-43-1315 | Chromium | 18.7 | 0.52 |
| RB11-55-2325 | Chromium | 18.9 | 0.59 |
| RB11-47-2830 | Chromium | 18.9 | 0.53 |
| RB11-58-1315 | Chromium | 19 | 0.5 |
| RB11-56-1820 | Chromium | 19.2 | 0.51 |
| RB11-44-0810 | Chromium | 19.6 | 0.52 |
| RB11-46-1315 | Chromium | 19.8 | 0.51 |
| RB11-50-1315 | Chromium | 19.9 | 0.51 |
| RB11-64-0810FD | Chromium | 20.4 | 0.53 |
| RB11-42-1820 | Chromium | 20.7 | 0.53 |
| RB11-48-2325 | Chromium | 21.5 | 0.52 |
| RB11-48-0305 | Chromium | 23.6 | 0.51 |
| RB11-49-2830 | Chromium | 23.7 | 0.52 |
| RB11-44-1820 | Chromium | 26.4 | 0.51 |
| RB11-61-1820 | Chromium | 29.7 | 0.51 |
| RB11-62-1315 | Chromium | 43 | 0.51 |
| RB11-43-1315 | Cobalt | 7.3 | 7.2 |
| RB11-40-0305FD | Cobalt | 7.5 | 7.3 |
| RB11-43-0305 | Cobalt | 7.8 | 7.3 |
| RB11-43-0810 | Cobalt | 7.8 | 7.2 |
| RB11-43-0305FD | Cobalt | 7.9 | 7.2 |
| RB11-56-1820 | Cobalt | 7.9 | 7.1 |
| RB11-51-0810 | Cobalt | 8 | 7.7 |
| RB11-44-1820 | Cobalt | 8.3 | 7.2 |
| RB11-44-0810 | Cobalt | 8.9 | 7.3 |
| RB11-62-1315 | Cobalt | 9.3 | 7.2 |
| RB11-55-1315 | Cobalt | 9.4 | 7.3 |
| RB11-43-1820 | Cobalt | 9.5 | 7.2 |
| RB11-BG03-2325 | Copper | 10.7 | 6.5 |
| RB11-51-1820 | Copper | 11.5 | 6.2 |
| RB11-51-2830 | Copper | 11.5 | 6.4 |
| RB11-55-2830 | Copper | 12.6 | 6.7 |
| RB11-BG03-0810 | Copper | 13.8 | 6.3 |
| RB11-52-0305 | Copper | 14.6 | 6.3 |
| RB11-BG04-2325 | Copper | 15.7 | 6.1 |
| RB11-54-2325 | Copper | 16.3 | 6.1 |
| RB11-BG06-2325 | Copper | 16.3 | 6.1 |
| RB11-42-1315 | Copper | 16.5 | 6.1 |
| RB11-49-1820 | Copper | 17.8 | 6.3 |
| RB11-58-0305 | Copper | 18.1 | 6.3 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-53-0810 | Copper | 18.4 | 6.2 |
| RB11-51-0810 | Copper | 18.6 | 6.6 |
| RB11-38-0305 | Copper | 20.2 | 6.4 |
| RB11-61-0810 | Copper | 20.2 | 6.1 |
| RB11-58-1820 | Copper | 20.2 | 6.1 |
| RB11-48-2830 | Copper | 20.2 | 6.2 |
| RB11-37-0810 | Copper | 20.3 | 6.4 |
| RB11-58-0305FD | Copper | 20.4 | 6.4 |
| RB11-41-0305 | Copper | 20.7 | 6.3 |
| RB11-55-1820 | Copper | 20.8 | 6.5 |
| RB11-42-0810 | Copper | 20.9 | 6.2 |
| RB11-BG03-0305 | Copper | 21.9 | 6.3 |
| RB11-BG05-0305 | Copper | 21.9 | 6.2 |
| RB11-46-0305 | Copper | 22.1 | 6.4 |
| RB11-63-2325 | Copper | 22.8 | 6.1 |
| RB11-BG06-0305FD | Copper | 23.8 | 6.3 |
| RB11-44-0810 | Copper | 23.9 | 6.2 |
| RB11-52-1315 | Copper | 24.1 | 6.3 |
| RB11-BG06-1820 | Copper | 24.1 | 6.1 |
| RB11-49-1315 | Copper | 24.4 | 6.4 |
| RB11-40-0810 | Copper | 24.8 | 6.3 |
| RB11-44-0305 | Copper | 25.4 | 6.1 |
| RB11-BG06-0810 | Copper | 25.5 | 6.3 |
| RB11-60-2830 | Copper | 25.7 | 6.2 |
| RB11-57-0305 | Copper | 25.8 | 6.4 |
| RB11-64-0810 | Copper | 26.2 | 6.4 |
| RB11-40-0305FD | Copper | 27 | 6.2 |
| RB11-45-0810 | Copper | 27.1 | 6.2 |
| RB11-39-0810 | Copper | 27.2 | 6.4 |
| RB11-63-0810 | Copper | 27.3 | 6.6 |
| RB11-47-2325 | Copper | 27.3 | 6.4 |
| RB11-50-1820 | Copper | 27.7 | 6.2 |
| RB11-60-1820 | Copper | 27.8 | 6.2 |
| RB11-BG03-1315 | Copper | 27.9 | 6.1 |
| RB11-63-1315 | Copper | 28.3 | 6.2 |
| RB11-61-0305 | Copper | 28.8 | 6.3 |
| RB11-42-0305 | Copper | 29.8 | 6.3 |
| RB11-BG04-0305 | Copper | 30 | 6.3 |
| RB11-46-0305FD | Copper | 30.2 | 6.2 |
| RB11-43-0305 | Copper | 30.3 | 6.2 |
| RB11-BG05-1820 | Copper | 30.3 | 6.1 |
| RB11-52-2325 | Copper | 30.4 | 6.1 |
| RB11-BG03-2830 | Copper | 30.8 | 6.3 |
| RB11-51-0305FD | Copper | 31.2 | 6.3 |
| RB11-39-0305 | Copper | 31.5 | 6.5 |
| RB11-50-2325 | Copper | 31.9 | 6.2 |
| RB11-53-1820 | Copper | 32 | 6.1 |
| RB11-BG06-0305 | Copper | 32.2 | 6.4 |
| RB11-64-1820 | Copper | 32.3 | 6.2 |
| RB11-43-0305FD | Copper | 32.5 | 6.2 |
| RB11-64-2325 | Copper | 33 | 6.1 |
| RB11-54-0810 | Copper | 33.1 | 6.3 |
| RB11-53-0305FD | Copper | 33.3 | 6.3 |
| RB11-54-1315 | Copper | 33.3 | 6.3 |
| RB11-49-0810 | Copper | 33.4 | 6.3 |
| RB11-56-1820 | Copper | 34.4 | 6.1 |
| RB11-64-0305FD | Copper | 34.8 | 6.3 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-59-0305 | Copper | 34.9 | 6.3 |
| RB11-63-1820 | Copper | 35 | 6.2 |
| RB11-58-1315 | Copper | 35.2 | 6 |
| RB11-37-0305 | Copper | 35.4 | 6.3 |
| RB11-44-0305FD | Copper | 35.4 | 6.3 |
| RB11-64-1315 | Copper | 35.9 | 6.2 |
| RB11-48-0305FD | Copper | 36.6 | 6.4 |
| RB11-46-2830 | Copper | 36.8 | 6.6 |
| RB11-40-0305 | Copper | 37.3 | 6.2 |
| RB11-39-1315 | Copper | 37.3 | 6.1 |
| RB11-40-1820 | Copper | 37.4 | 6.1 |
| RB11-46-2325 | Copper | 37.6 | 6.9 |
| RB11-37-1820 | Copper | 37.7 | 6.1 |
| RB11-52-2830 | Copper | 39 | 6.5 |
| RB11-49-0305 | Copper | 39.1 | 6.2 |
| RB11-BG04-0810 | Copper | 39.1 | 6.4 |
| RB11-60-2325 | Copper | 39.1 | 6.1 |
| RB11-51-0305 | Copper | 39.9 | 6.3 |
| RB11-43-0810 | Copper | 40.2 | 6.2 |
| RB11-56-0810 | Copper | 40.9 | 6.3 |
| RB11-43-1820 | Copper | 40.9 | 6.1 |
| RB11-44-2830 | Copper | 41.6 | 6.2 |
| RB11-54-0305 | Copper | 41.8 | 6.2 |
| RB11-48-0810 | Copper | 42 | 6.4 |
| RB11-BG04-1315 | Copper | 42.1 | 6.2 |
| RB11-62-0305FD | Copper | 42.6 | 6.3 |
| RB11-51-1315 | Copper | 42.9 | 6.3 |
| RB11-55-0305 | Copper | 43.1 | 6.3 |
| RB11-64-0305 | Copper | 43.6 | 6.3 |
| RB11-50-0810 | Copper | 45.2 | 6.6 |
| RB11-62-1315 | Copper | 45.9 | 6.1 |
| RB11-60-0305 | Copper | 46.2 | 6.2 |
| RB11-56-0305 | Copper | 47.2 | 6.2 |
| RB11-56-2830 | Copper | 47.2 | 6.2 |
| RB11-57-1315 | Copper | 47.3 | 6.1 |
| RB11-43-2830 | Copper | 47.9 | 6.1 |
| RB11-BG04-0305FD | Copper | 48.5 | 6.5 |
| RB11-41-0810 | Copper | 49 | 6.3 |
| RB11-52-1820 | Copper | 50.2 | 6.1 |
| RB11-50-0305 | Copper | 50.5 | 6.3 |
| RB11-37-1315 | Copper | 50.7 | 6.2 |
| RB11-53-2830 | Copper | 50.9 | 6.5 |
| RB11-58-2830 | Copper | 50.9 | 6.1 |
| RB11-44-1315 | Copper | 51.3 | 6.2 |
| RB11-53-1315 | Copper | 51.5 | 6.1 |
| RB11-BG05-0810 | Copper | 51.7 | 6.6 |
| RB11-59-2325 | Copper | 51.9 | 6.1 |
| RB11-45-1315 | Copper | 53 | 6.1 |
| RB11-45-2325 | Copper | 53.2 | 6.5 |
| RB11-41-1315 | Copper | 53.9 | 6.1 |
| RB11-57-1820 | Copper | 55.5 | 6.2 |
| RB11-57-2325 | Copper | 55.5 | 6.1 |
| RB11-49-2325 | Copper | 55.8 | 6.1 |
| RB11-48-1820 | Copper | 56.5 | 6.2 |
| RB11-41-1820 | Copper | 57 | 6.1 |
| RB11-38-0305FD | Copper | 58 | 6.4 |
| RB11-45-1820 | Copper | 58.5 | 6.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-62-0810 | Copper | 60.2 | 6.1 |
| RB11-46-0810 | Copper | 60.4 | 6.2 |
| RB11-BG06-1315 | Copper | 61.8 | 6.2 |
| RB11-62-2325 | Copper | 62 | 6.1 |
| RB11-38-0810 | Copper | 64.2 | 6.2 |
| RB11-BG05-2325 | Copper | 64.3 | 6.8 |
| RB11-60-0810 | Copper | 64.5 | 6.2 |
| RB11-60-1315 | Copper | 64.7 | 6.1 |
| RB11-49-0305FD | Copper | 64.9 | 6.2 |
| RB11-61-2830 | Copper | 67 | 6.1 |
| RB11-61-1315 | Copper | 67.5 | 6.1 |
| RB11-59-1315 | Copper | 70 | 6.1 |
| RB11-BG05-1315 | Copper | 72 | 6.1 |
| RB11-BG05-2830 | Copper | 72.5 | 6 |
| RB11-44-2325 | Copper | 73.3 | 6.7 |
| RB11-63-0305 | Copper | 77.8 | 6.5 |
| RB11-58-2325 | Copper | 79.1 | 6.1 |
| RB11-63-2830 | Copper | 79.2 | 6.1 |
| RB11-61-2325 | Copper | 81.4 | 6.1 |
| RB11-46-1820 | Copper | 83.3 | 6.1 |
| RB11-BG06-2830 | Copper | 84.6 | 6.5 |
| RB11-55-2325 | Copper | 85.1 | 7.1 |
| RB11-54-0305FD | Copper | 85.2 | 6.3 |
| RB11-43-2325 | Copper | 87.1 | 6.1 |
| RB11-59-0810 | Copper | 87.4 | 6.1 |
| RB11-61-1820 | Copper | 87.5 | 6.1 |
| RB11-42-1820 | Copper | 88.2 | 6.4 |
| RB11-45-0305 | Copper | 88.4 | 6.2 |
| RB11-60-0305FD | Copper | 91 | 6.2 |
| RB11-38-1820 | Copper | 92.9 | 6.2 |
| RB11-47-0305 | Copper | 96.6 | 6.2 |
| RB11-40-1315 | Copper | 101 | 6.1 |
| RB11-54-1820 | Copper | 102 | 6.1 |
| RB11-59-2830 | Copper | 102 | 6.1 |
| RB11-58-0810 | Copper | 105 | 6.2 |
| RB11-50-2830 | Copper | 109 | 6.2 |
| RB11-62-0305 | Copper | 113 | 6.4 |
| RB11-55-1315 | Copper | 115 | 6.2 |
| RB11-54-2830 | Copper | 116 | 6.1 |
| RB11-56-1315 | Copper | 135 | 6.1 |
| RB11-64-0810FD | Copper | 142 | 6.3 |
| RB11-43-1315 | Copper | 144 | 6.2 |
| RB11-56-2325 | Copper | 160 | 6.1 |
| RB11-BG04-1820 | Copper | 165 | 6.1 |
| RB11-45-2830 | Copper | 170 | 6.2 |
| RB11-50-1315 | Copper | 175 | 6.1 |
| RB11-52-0810 | Copper | 177 | 6.2 |
| RB11-47-0810 | Copper | 181 | 6.6 |
| RB11-56-0305FD | Copper | 184 | 6.3 |
| RB11-48-1315 | Copper | 208 | 6.1 |
| RB11-44-1820 | Copper | 210 | 6.2 |
| RB11-55-0810 | Copper | 213 | 6.3 |
| RB11-57-2830 | Copper | 213 | 6.1 |
| RB11-47-2830 | Copper | 230 | 6.4 |
| RB11-46-1315 | Copper | 240 | 6.1 |
| RB11-59-1820 | Copper | 242 | 6.1 |
| RB11-62-2830 | Copper | 251 | 6.1 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-38-1315 | Copper | 256 | 6.2 |
| RB11-57-0810 | Copper | 259 | 6.2 |
| RB11-47-1820 | Copper | 261 | 6.1 |
| RB11-49-2830 | Copper | 264 | 6.3 |
| RB11-53-0305 | Copper | 277 | 6.3 |
| RB11-62-1820 | Copper | 296 | 6.1 |
| RB11-BG03-1820 | Copper | 307 | 6.1 |
| RB11-48-0305 | Copper | 395 | 6.2 |
| RB11-53-2325 | Copper | 431 | 6.1 |
| RB11-39-1820 | Copper | 442 | 6.1 |
| RB11-47-1315 | Copper | 461 | 6.1 |
| RB11-51-2325 | Copper | 531 | 6.4 |
| RB11-BG04-2830 | Copper | 813 | 6.1 |
| RB11-48-2325 | Copper | 3020 | 6.2 |
| RB11-52-1820 | Cyanide, Distilled | 0.52 | 0.51 |
| RB11-BG06-1315 | Cyanide, Distilled | 0.67 | 0.51 |
| RB11-49-0305FD | Cyanide, Distilled | 0.73 | 0.52 |
| RB11-49-1315 | Cyanide, Distilled | 1.05 | 0.53 |
| RB11-38-0305FD | Cyanide, Distilled | 1.06 | 0.54 |
| RB11-60-1820 | Iron | 5540 | 7.2 |
| RB11-57-2325 | Iron | 5730 | 7.1 |
| RB11-62-2830 | Iron | 5910 | 7.1 |
| RB11-BG04-2325 | Iron | 6130 | 7.1 |
| RB11-BG06-0305 | Iron | 6270 | 7.4 |
| RB11-BG06-2830 | Iron | 6600 | 7.6 |
| RB11-45-2830 | Iron | 6640 | 7.2 |
| RB11-39-1820 | Iron | 6690 | 7.1 |
| RB11-52-2325 | Iron | 6700 | 7.1 |
| RB11-48-1820 | Iron | 7010 | 7.2 |
| RB11-52-0810 | Iron | 7130 | 7.2 |
| RB11-62-1820 | Iron | 7130 | 7.2 |
| RB11-58-1820 | Iron | 7160 | 7.1 |
| RB11-59-2325 | Iron | 7280 | 7.1 |
| RB11-64-1315 | Iron | 7380 | 7.3 |
| RB11-46-2325 | Iron | 7440 | 8 |
| RB11-48-2830 | Iron | 7500 | 7.2 |
| RB11-BG05-2830 | Iron | 7510 | 7 |
| RB11-52-1820 | Iron | 7590 | 7.1 |
| RB11-63-1315 | Iron | 7730 | 7.2 |
| RB11-63-2325 | Iron | 7730 | 7.1 |
| RB11-63-1820 | Iron | 7740 | 7.2 |
| RB11-BG04-1820 | Iron | 7790 | 7.2 |
| RB11-47-1820 | Iron | 7810 | 7.2 |
| RB11-64-2325 | Iron | 7880 | 7.2 |
| RB11-38-0810 | Iron | 7910 | 7.2 |
| RB11-57-1820 | Iron | 7970 | 7.2 |
| RB11-43-2325 | Iron | 8130 | 7.1 |
| RB11-BG06-2325 | Iron | 8140 | 7.1 |
| RB11-BG05-1820 | Iron | 8280 | 7.1 |
| RB11-52-0305 | Iron | 8300 | 7.4 |
| RB11-49-0305 | Iron | 8330 | 7.2 |
| RB11-45-1820 | Iron | 8330 | 7.2 |
| RB11-39-1315 | Iron | 8470 | 7.1 |
| RB11-38-0305FD | Iron | 8520 | 7.5 |
| RB11-54-2325 | Iron | 8550 | 7.1 |
| RB11-58-2325 | Iron | 8580 | 7.1 |
| RB11-46-2830 | Iron | 8650 | 7.7 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-57-0810 | Iron | 8670 | 7.2 |
| RB11-BG06-1820 | Iron | 8790 | 7.1 |
| RB11-62-0810 | Iron | 8920 | 7.1 |
| RB11-64-0305 | Iron | 8940 | 7.4 |
| RB11-57-1315 | Iron | 9000 | 7.2 |
| RB11-60-2830 | Iron | 9050 | 7.2 |
| RB11-BG04-2830 | Iron | 9090 | 7.1 |
| RB11-BG05-0810 | Iron | 9130 | 7.7 |
| RB11-40-0810 | Iron | 9160 | 7.4 |
| RB11-46-0305 | Iron | 9410 | 7.5 |
| RB11-62-2325 | Iron | 9460 | 7.1 |
| RB11-59-0305 | Iron | 9490 | 7.3 |
| RB11-BG03-1315 | Iron | 9550 | 7.1 |
| RB11-53-2325 | Iron | 9550 | 7.2 |
| RB11-61-0810 | Iron | 9600 | 7.2 |
| RB11-41-1820 | Iron | 9620 | 7.2 |
| RB11-45-0810 | Iron | 9690 | 7.2 |
| RB11-39-0810 | Iron | 9700 | 7.4 |
| RB11-50-1820 | Iron | 9710 | 7.2 |
| RB11-BG03-2325 | Iron | 9780 | 7.6 |
| RB11-43-2830 | Iron | 9990 | 7.1 |
| RB11-49-0810 | Iron | 10100 | 7.3 |
| RB11-BG03-1820 | Iron | 10100 | 7.1 |
| RB11-56-0305 | Iron | 10200 | 7.3 |
| RB11-61-0305 | Iron | 10200 | 7.3 |
| RB11-46-1315 | Iron | 10200 | 7.1 |
| RB11-51-1820 | Iron | 10200 | 7.2 |
| RB11-58-0305FD | Iron | 10300 | 7.4 |
| RB11-42-0810 | Iron | 10400 | 7.2 |
| RB11-58-0810 | Iron | 10400 | 7.3 |
| RB11-40-0305 | Iron | 10500 | 7.3 |
| RB11-44-0305 | Iron | 10500 | 7.2 |
| RB11-60-0305FD | Iron | 10500 | 7.2 |
| RB11-49-2325 | Iron | 10500 | 7.2 |
| RB11-48-0810 | Iron | 10700 | 7.4 |
| RB11-BG03-0810 | Iron | 10700 | 7.4 |
| RB11-50-0305 | Iron | 10800 | 7.3 |
| RB11-51-0305FD | Iron | 10800 | 7.3 |
| RB11-45-2325 | Iron | 10800 | 7.5 |
| RB11-59-2830 | Iron | 10800 | 7.1 |
| RB11-61-2830 | Iron | 10800 | 7.1 |
| RB11-63-0305 | Iron | 10900 | 7.6 |
| RB11-49-1315 | Iron | 10900 | 7.5 |
| RB11-50-2325 | Iron | 10900 | 7.2 |
| RB11-41-0305 | Iron | 11100 | 7.3 |
| RB11-54-1315 | Iron | 11100 | 7.4 |
| RB11-61-2325 | Iron | 11100 | 7.1 |
| RB11-BG06-0305FD | Iron | 11200 | 7.3 |
| RB11-53-0810 | Iron | 11200 | 7.3 |
| RB11-45-1315 | Iron | 11200 | 7.1 |
| RB11-54-1820 | Iron | 11200 | 7.1 |
| RB11-53-2830 | Iron | 11200 | 7.6 |
| RB11-52-2830 | Iron | 11300 | 7.5 |
| RB11-37-0305 | Iron | 11400 | 7.3 |
| RB11-58-0305 | Iron | 11400 | 7.3 |
| RB11-37-1820 | Iron | 11400 | 7.1 |
| RB11-51-2325 | Iron | 11400 | 7.5 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-0305FD | Iron | 11500 | 7.4 |
| RB11-46-1820 | Iron | 11500 | 7.1 |
| RB11-61-1820 | Iron | 11500 | 7.1 |
| RB11-55-2830 | Iron | 11500 | 7.8 |
| RB11-BG03-2830 | Iron | 11500 | 7.3 |
| RB11-38-0305 | Iron | 11600 | 7.4 |
| RB11-44-0305FD | Iron | 11600 | 7.3 |
| RB11-46-0305FD | Iron | 11600 | 7.2 |
| RB11-59-0810 | Iron | 11600 | 7.1 |
| RB11-43-0305 | Iron | 11700 | 7.3 |
| RB11-38-1315 | Iron | 11800 | 7.2 |
| RB11-59-1315 | Iron | 11800 | 7.1 |
| RB11-BG06-1315 | Iron | 11800 | 7.2 |
| RB11-56-2325 | Iron | 11800 | 7.2 |
| RB11-BG05-2325 | Iron | 11800 | 8 |
| RB11-51-0305 | Iron | 11900 | 7.3 |
| RB11-37-0810 | Iron | 12000 | 7.4 |
| RB11-43-1820 | Iron | 12100 | 7.2 |
| RB11-63-0810 | Iron | 12200 | 7.6 |
| RB11-53-1315 | Iron | 12200 | 7.1 |
| RB11-60-1315 | Iron | 12200 | 7.1 |
| RB11-45-0305 | Iron | 12400 | 7.3 |
| RB11-43-1315 | Iron | 12400 | 7.2 |
| RB11-50-0810 | Iron | 12500 | 7.7 |
| RB11-44-1315 | Iron | 12500 | 7.3 |
| RB11-61-1315 | Iron | 12500 | 7.1 |
| RB11-64-0305FD | Iron | 12700 | 7.4 |
| RB11-46-0810 | Iron | 12700 | 7.2 |
| RB11-56-0810 | Iron | 12700 | 7.3 |
| RB11-60-0810 | Iron | 12700 | 7.2 |
| RB11-51-1315 | Iron | 12700 | 7.3 |
| RB11-38-1820 | Iron | 12700 | 7.3 |
| RB11-53-1820 | Iron | 12800 | 7.1 |
| RB11-44-2325 | Iron | 12800 | 7.8 |
| RB11-54-0810 | Iron | 12900 | 7.4 |
| RB11-51-2830 | Iron | 12900 | 7.4 |
| RB11-54-2830 | Iron | 12900 | 7.2 |
| RB11-60-0305 | Iron | 13000 | 7.2 |
| RB11-52-1315 | Iron | 13000 | 7.3 |
| RB11-BG05-1315 | Iron | 13100 | 7.1 |
| RB11-54-0305 | Iron | 13200 | 7.3 |
| RB11-39-0305 | Iron | 13400 | 7.6 |
| RB11-53-0305FD | Iron | 13400 | 7.3 |
| RB11-43-0810 | Iron | 13400 | 7.2 |
| RB11-40-1315 | Iron | 13400 | 7.1 |
| RB11-55-1820 | Iron | 13400 | 7.5 |
| RB11-60-2325 | Iron | 13400 | 7.1 |
| RB11-57-2830 | Iron | 13400 | 7.1 |
| RB11-47-0810 | Iron | 13600 | 7.7 |
| RB11-58-1315 | Iron | 13600 | 7 |
| RB11-41-1315 | Iron | 13700 | 7.2 |
| RB11-48-0305 | Iron | 13800 | 7.2 |
| RB11-53-0305 | Iron | 13800 | 7.4 |
| RB11-41-0810 | Iron | 13800 | 7.4 |
| RB11-64-0810 | Iron | 13800 | 7.5 |
| RB11-BG04-0810 | Iron | 13800 | 7.4 |
| RB11-47-1315 | Iron | 13900 | 7.2 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-1315 | Iron | 13900 | 7.1 |
| RB11-BG04-1315 | Iron | 13900 | 7.2 |
| RB11-BG05-0305 | Iron | 14000 | 7.3 |
| RB11-47-2325 | Iron | 14000 | 7.4 |
| RB11-64-0810FD | Iron | 14100 | 7.4 |
| RB11-48-1315 | Iron | 14100 | 7.2 |
| RB11-47-0305 | Iron | 14200 | 7.2 |
| RB11-57-0305 | Iron | 14200 | 7.5 |
| RB11-43-0305FD | Iron | 14300 | 7.2 |
| RB11-56-2830 | Iron | 14300 | 7.2 |
| RB11-42-0305 | Iron | 14400 | 7.3 |
| RB11-BG06-0810 | Iron | 14400 | 7.4 |
| RB11-55-1315 | Iron | 14400 | 7.3 |
| RB11-59-1820 | Iron | 14400 | 7.1 |
| RB11-62-0305 | Iron | 14500 | 7.4 |
| RB11-62-0305FD | Iron | 14500 | 7.4 |
| RB11-50-2830 | Iron | 14500 | 7.3 |
| RB11-55-2325 | Iron | 14600 | 8.3 |
| RB11-55-0305 | Iron | 14700 | 7.3 |
| RB11-54-0305FD | Iron | 14700 | 7.4 |
| RB11-55-0810 | Iron | 14700 | 7.3 |
| RB11-37-1315 | Iron | 14700 | 7.2 |
| RB11-64-1820 | Iron | 14700 | 7.3 |
| RB11-48-2325 | Iron | 14800 | 7.2 |
| RB11-44-2830 | Iron | 14900 | 7.2 |
| RB11-49-0305FD | Iron | 15000 | 7.2 |
| RB11-63-2830 | Iron | 15000 | 7.1 |
| RB11-BG04-0305 | Iron | 15300 | 7.4 |
| RB11-49-1820 | Iron | 15400 | 7.3 |
| RB11-51-0810 | Iron | 15500 | 7.7 |
| RB11-48-0305FD | Iron | 15600 | 7.5 |
| RB11-BG04-0305FD | Iron | 15800 | 7.5 |
| RB11-58-2830 | Iron | 15800 | 7.1 |
| RB11-40-1820 | Iron | 16300 | 7.1 |
| RB11-40-0305FD | Iron | 16400 | 7.3 |
| RB11-44-0810 | Iron | 16500 | 7.3 |
| RB11-BG03-0305 | Iron | 17000 | 7.3 |
| RB11-62-1315 | Iron | 17100 | 7.2 |
| RB11-44-1820 | Iron | 17500 | 7.2 |
| RB11-47-2830 | Iron | 18000 | 7.4 |
| RB11-42-1820 | Iron | 18300 | 7.4 |
| RB11-56-1820 | Iron | 18400 | 7.1 |
| RB11-42-1315 | Iron | 18800 | 7.1 |
| RB11-50-1315 | Iron | 21100 | 7.2 |
| RB11-49-2830 | Iron | 38100 | 7.3 |
| RB11-62-1315 | Lead | 1.7 | 0.51 |
| RB11-57-2325 | Lead | 2.6 | 0.51 |
| RB11-BG06-0305 | Lead | 2.9 | 0.53 |
| RB11-62-0810 | Lead | 2.9 | 0.51 |
| RB11-52-2325 | Lead | 3 | 0.51 |
| RB11-64-2325 | Lead | 3 | 0.51 |
| RB11-64-1315 | Lead | 3.1 | 0.52 |
| RB11-BG06-1820 | Lead | 3.1 | 0.51 |
| RB11-BG06-2325 | Lead | 3.2 | 0.51 |
| RB11-41-1820 | Lead | 3.4 | 0.51 |
| RB11-61-1820 | Lead | 3.4 | 0.51 |
| RB11-59-2325 | Lead | 3.4 | 0.51 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-62-1820 | Lead | 3.5 | 0.51 |
| RB11-54-2325 | Lead | 3.5 | 0.51 |
| RB11-58-2325 | Lead | 3.5 | 0.51 |
| RB11-63-2325 | Lead | 3.5 | 0.51 |
| RB11-54-1820 | Lead | 3.7 | 0.51 |
| RB11-BG04-1820 | Lead | 3.8 | 0.51 |
| RB11-38-0810 | Lead | 3.9 | 0.52 |
| RB11-53-1315 | Lead | 3.9 | 0.51 |
| RB11-63-1820 | Lead | 3.9 | 0.51 |
| RB11-BG03-1820 | Lead | 3.9 | 0.51 |
| RB11-BG04-2325 | Lead | 3.9 | 0.51 |
| RB11-43-2830 | Lead | 3.9 | 0.51 |
| RB11-BG05-1315 | Lead | 4.1 | 0.51 |
| RB11-46-1820 | Lead | 4.1 | 0.51 |
| RB11-52-0810 | Lead | 4.2 | 0.52 |
| RB11-55-1315 | Lead | 4.2 | 0.52 |
| RB11-53-1820 | Lead | 4.2 | 0.51 |
| RB11-53-2325 | Lead | 4.2 | 0.51 |
| RB11-BG04-2830 | Lead | 4.2 | 0.51 |
| RB11-60-1820 | Lead | 4.3 | 0.52 |
| RB11-49-2830 | Lead | 4.4 | 0.52 |
| RB11-BG06-2830 | Lead | 4.4 | 0.55 |
| RB11-52-1820 | Lead | 4.5 | 0.51 |
| RB11-45-2830 | Lead | 4.5 | 0.51 |
| RB11-62-2830 | Lead | 4.5 | 0.51 |
| RB11-44-0305FD | Lead | 4.6 | 0.52 |
| RB11-43-0810 | Lead | 4.7 | 0.51 |
| RB11-57-1315 | Lead | 4.7 | 0.51 |
| RB11-60-1315 | Lead | 4.7 | 0.51 |
| RB11-45-1820 | Lead | 4.7 | 0.51 |
| RB11-43-2325 | Lead | 4.7 | 0.51 |
| RB11-46-2325 | Lead | 4.7 | 0.57 |
| RB11-51-2830 | Lead | 4.7 | 0.53 |
| RB11-64-0305 | Lead | 4.8 | 0.53 |
| RB11-58-0810 | Lead | 4.8 | 0.52 |
| RB11-39-1315 | Lead | 4.8 | 0.51 |
| RB11-58-1315 | Lead | 4.8 | 0.5 |
| RB11-61-2830 | Lead | 4.8 | 0.51 |
| RB11-BG03-2830 | Lead | 4.8 | 0.52 |
| RB11-53-0305FD | Lead | 4.9 | 0.52 |
| RB11-57-0810 | Lead | 4.9 | 0.52 |
| RB11-59-0810 | Lead | 4.9 | 0.51 |
| RB11-49-2325 | Lead | 4.9 | 0.51 |
| RB11-57-2830 | Lead | 4.9 | 0.51 |
| RB11-58-2830 | Lead | 4.9 | 0.51 |
| RB11-63-0810 | Lead | 5 | 0.55 |
| RB11-BG06-1315 | Lead | 5 | 0.51 |
| RB11-62-2325 | Lead | 5 | 0.51 |
| RB11-BG06-0305FD | Lead | 5.1 | 0.52 |
| RB11-47-1820 | Lead | 5.1 | 0.51 |
| RB11-55-2830 | Lead | 5.1 | 0.56 |
| RB11-58-1820 | Lead | 5.2 | 0.51 |
| RB11-BG03-1315 | Lead | 5.3 | 0.51 |
| RB11-49-1820 | Lead | 5.3 | 0.52 |
| RB11-BG05-0810 | Lead | 5.4 | 0.55 |
| RB11-48-1315 | Lead | 5.4 | 0.51 |
| RB11-50-2325 | Lead | 5.4 | 0.51 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-53-0810 | Lead | 5.5 | 0.52 |
| RB11-50-1315 | Lead | 5.5 | 0.51 |
| RB11-61-2325 | Lead | 5.5 | 0.51 |
| RB11-50-2830 | Lead | 5.5 | 0.52 |
| RB11-60-2830 | Lead | 5.5 | 0.51 |
| RB11-45-1315 | Lead | 5.6 | 0.51 |
| RB11-44-1820 | Lead | 5.6 | 0.51 |
| RB11-55-1820 | Lead | 5.6 | 0.54 |
| RB11-46-2830 | Lead | 5.6 | 0.55 |
| RB11-BG03-0810 | Lead | 5.7 | 0.53 |
| RB11-51-1820 | Lead | 5.7 | 0.52 |
| RB11-56-1820 | Lead | 5.7 | 0.51 |
| RB11-64-1820 | Lead | 5.7 | 0.52 |
| RB11-41-1315 | Lead | 5.8 | 0.51 |
| RB11-BG04-1315 | Lead | 5.8 | 0.52 |
| RB11-47-2830 | Lead | 5.8 | 0.53 |
| RB11-45-0810 | Lead | 5.9 | 0.52 |
| RB11-46-0810 | Lead | 5.9 | 0.51 |
| RB11-51-2325 | Lead | 5.9 | 0.53 |
| RB11-56-2325 | Lead | 5.9 | 0.51 |
| RB11-BG05-2830 | Lead | 5.9 | 0.5 |
| RB11-49-0305 | Lead | 6 | 0.51 |
| RB11-52-0305 | Lead | 6 | 0.53 |
| RB11-56-0305 | Lead | 6 | 0.52 |
| RB11-40-0810 | Lead | 6 | 0.53 |
| RB11-44-0810 | Lead | 6 | 0.52 |
| RB11-43-1820 | Lead | 6 | 0.51 |
| RB11-53-0305 | Lead | 6.1 | 0.53 |
| RB11-61-1315 | Lead | 6.2 | 0.51 |
| RB11-BG03-2325 | Lead | 6.2 | 0.54 |
| RB11-51-0305FD | Lead | 6.3 | 0.52 |
| RB11-42-1315 | Lead | 6.3 | 0.51 |
| RB11-63-1315 | Lead | 6.3 | 0.52 |
| RB11-57-1820 | Lead | 6.3 | 0.51 |
| RB11-47-2325 | Lead | 6.3 | 0.53 |
| RB11-52-2830 | Lead | 6.3 | 0.54 |
| RB11-53-2830 | Lead | 6.3 | 0.54 |
| RB11-56-2830 | Lead | 6.3 | 0.52 |
| RB11-48-1820 | Lead | 6.4 | 0.51 |
| RB11-BG05-1820 | Lead | 6.4 | 0.51 |
| RB11-60-0305 | Lead | 6.5 | 0.51 |
| RB11-52-1315 | Lead | 6.5 | 0.52 |
| RB11-54-1315 | Lead | 6.5 | 0.53 |
| RB11-56-1315 | Lead | 6.5 | 0.51 |
| RB11-40-1820 | Lead | 6.5 | 0.51 |
| RB11-44-1315 | Lead | 6.6 | 0.52 |
| RB11-46-0305 | Lead | 6.7 | 0.53 |
| RB11-56-0810 | Lead | 6.7 | 0.52 |
| RB11-59-2830 | Lead | 6.7 | 0.51 |
| RB11-42-0305 | Lead | 6.9 | 0.52 |
| RB11-55-0305 | Lead | 6.9 | 0.52 |
| RB11-56-0305FD | Lead | 6.9 | 0.53 |
| RB11-60-0305FD | Lead | 6.9 | 0.52 |
| RB11-40-0305 | Lead | 7 | 0.52 |
| RB11-51-0305 | Lead | 7 | 0.52 |
| RB11-45-2325 | Lead | 7 | 0.54 |
| RB11-BG05-2325 | Lead | 7 | 0.57 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-54-0305 | Lead | 7.1 | 0.52 |
| RB11-39-0810 | Lead | 7.1 | 0.53 |
| RB11-59-1315 | Lead | 7.1 | 0.51 |
| RB11-48-2830 | Lead | 7.1 | 0.51 |
| RB11-57-0305 | Lead | 7.2 | 0.53 |
| RB11-41-0810 | Lead | 7.2 | 0.53 |
| RB11-42-0810 | Lead | 7.2 | 0.51 |
| RB11-BG06-0810 | Lead | 7.2 | 0.53 |
| RB11-37-1315 | Lead | 7.2 | 0.51 |
| RB11-38-1315 | Lead | 7.2 | 0.51 |
| RB11-58-0305FD | Lead | 7.3 | 0.53 |
| RB11-37-0810 | Lead | 7.3 | 0.53 |
| RB11-54-0810 | Lead | 7.3 | 0.53 |
| RB11-44-0305 | Lead | 7.4 | 0.51 |
| RB11-BG04-0305FD | Lead | 7.4 | 0.54 |
| RB11-38-1820 | Lead | 7.4 | 0.52 |
| RB11-60-2325 | Lead | 7.4 | 0.51 |
| RB11-61-0810 | Lead | 7.5 | 0.51 |
| RB11-42-1820 | Lead | 7.5 | 0.53 |
| RB11-50-0810 | Lead | 7.6 | 0.55 |
| RB11-40-1315 | Lead | 7.6 | 0.51 |
| RB11-38-0305 | Lead | 7.7 | 0.53 |
| RB11-41-0305 | Lead | 7.7 | 0.52 |
| RB11-48-0305 | Lead | 7.7 | 0.51 |
| RB11-48-2325 | Lead | 7.7 | 0.52 |
| RB11-BG05-0305 | Lead | 7.8 | 0.52 |
| RB11-50-0305 | Lead | 7.9 | 0.52 |
| RB11-51-0810 | Lead | 7.9 | 0.55 |
| RB11-63-2830 | Lead | 7.9 | 0.51 |
| RB11-43-0305 | Lead | 8 | 0.52 |
| RB11-46-0305FD | Lead | 8 | 0.51 |
| RB11-37-1820 | Lead | 8 | 0.51 |
| RB11-37-0305 | Lead | 8.1 | 0.52 |
| RB11-BG04-0810 | Lead | 8.1 | 0.53 |
| RB11-39-0305 | Lead | 8.2 | 0.54 |
| RB11-54-0305FD | Lead | 8.2 | 0.53 |
| RB11-48-0810 | Lead | 8.2 | 0.53 |
| RB11-46-1315 | Lead | 8.2 | 0.51 |
| RB11-58-0305 | Lead | 8.3 | 0.52 |
| RB11-59-0305 | Lead | 8.3 | 0.52 |
| RB11-62-0305 | Lead | 8.3 | 0.53 |
| RB11-62-0305FD | Lead | 8.3 | 0.53 |
| RB11-49-0810 | Lead | 8.4 | 0.52 |
| RB11-63-0305 | Lead | 8.5 | 0.54 |
| RB11-64-0305FD | Lead | 8.6 | 0.53 |
| RB11-60-0810 | Lead | 8.6 | 0.52 |
| RB11-61-0305 | Lead | 8.7 | 0.52 |
| RB11-BG03-0305 | Lead | 8.8 | 0.52 |
| RB11-49-1315 | Lead | 8.8 | 0.53 |
| RB11-44-2325 | Lead | 8.8 | 1.1 |
| RB11-44-2830 | Lead | 8.8 | 1 |
| RB11-47-1315 | Lead | 9 | 0.51 |
| RB11-55-0810 | Lead | 9.1 | 0.52 |
| RB11-48-0305FD | Lead | 9.3 | 0.54 |
| RB11-51-1315 | Lead | 9.3 | 0.52 |
| RB11-45-0305 | Lead | 9.6 | 0.52 |
| RB11-43-0305FD | Lead | 9.6 | 1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-47-0810 | Lead | 9.7 | 0.55 |
| RB11-50-1820 | Lead | 9.8 | 0.51 |
| RB11-54-2830 | Lead | 10.1 | 1 |
| RB11-38-0305FD | Lead | 10.3 | 0.54 |
| RB11-59-1820 | Lead | 10.4 | 0.51 |
| RB11-47-0305 | Lead | 10.5 | 1 |
| RB11-BG04-0305 | Lead | 10.6 | 2.6 |
| RB11-40-0305FD | Lead | 11 | 2.6 |
| RB11-39-1820 | Lead | 11.5 | 2.5 |
| RB11-49-0305FD | Lead | 13.5 | 2.6 |
| RB11-64-0810FD | Lead | 15.8 | 2.6 |
| RB11-64-0810 | Lead | 18.2 | 2.7 |
| RB11-55-2325 | Lead | 37 | 5.9 |
| RB11-43-1315 | Lead | 46.7 | 5.2 |
| RB11-BG04-2325 | Magnesium | 2050 | 30.6 |
| RB11-63-2325 | Magnesium | 2340 | 30.5 |
| RB11-BG06-2325 | Magnesium | 2450 | 30.5 |
| RB11-59-2325 | Magnesium | 2460 | 30.5 |
| RB11-BG04-1820 | Magnesium | 2470 | 30.6 |
| RB11-46-2325 | Magnesium | 2480 | 34 |
| RB11-48-2830 | Magnesium | 2530 | 31 |
| RB11-57-2325 | Magnesium | 2550 | 30.3 |
| RB11-52-2325 | Magnesium | 2660 | 30.6 |
| RB11-64-2325 | Magnesium | 2670 | 30.7 |
| RB11-51-2325 | Magnesium | 2740 | 31.9 |
| RB11-43-2325 | Magnesium | 2750 | 30.5 |
| RB11-54-2325 | Magnesium | 2750 | 30.4 |
| RB11-62-1820 | Magnesium | 2800 | 30.6 |
| RB11-60-1820 | Magnesium | 2840 | 31 |
| RB11-BG06-2830 | Magnesium | 2840 | 32.7 |
| RB11-62-2830 | Magnesium | 2850 | 30.6 |
| RB11-43-2830 | Magnesium | 2860 | 30.6 |
| RB11-BG05-2830 | Magnesium | 2890 | 30.1 |
| RB11-62-0810 | Magnesium | 2940 | 30.6 |
| RB11-BG05-0810 | Magnesium | 2940 | 33.1 |
| RB11-45-1820 | Magnesium | 3050 | 31 |
| RB11-52-0810 | Magnesium | 3060 | 31.1 |
| RB11-45-2830 | Magnesium | 3080 | 31 |
| RB11-39-1315 | Magnesium | 3100 | 30.3 |
| RB11-38-0810 | Magnesium | 3120 | 31 |
| RB11-58-2325 | Magnesium | 3120 | 30.3 |
| RB11-BG04-2830 | Magnesium | 3150 | 30.5 |
| RB11-39-1820 | Magnesium | 3190 | 30.3 |
| RB11-60-2830 | Magnesium | 3210 | 30.9 |
| RB11-BG06-0305 | Magnesium | 3240 | 31.8 |
| RB11-59-0810 | Magnesium | 3360 | 30.3 |
| RB11-BG03-1315 | Magnesium | 3410 | 30.6 |
| RB11-58-1820 | Magnesium | 3430 | 30.3 |
| RB11-64-1315 | Magnesium | 3440 | 31.2 |
| RB11-40-1820 | Magnesium | 3440 | 30.4 |
| RB11-57-1315 | Magnesium | 3480 | 30.7 |
| RB11-52-1820 | Magnesium | 3510 | 30.6 |
| RB11-46-2830 | Magnesium | 3510 | 33 |
| RB11-54-1315 | Magnesium | 3530 | 31.6 |
| RB11-45-2325 | Magnesium | 3540 | 32 |
| RB11-55-2830 | Magnesium | 3550 | 33.4 |
| RB11-47-1820 | Magnesium | 3560 | 31 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-61-2830 | Magnesium | 3570 | 30.3 |
| RB11-61-0305 | Magnesium | 3580 | 31.4 |
| RB11-63-1820 | Magnesium | 3580 | 30.8 |
| RB11-37-1820 | Magnesium | 3590 | 30.4 |
| RB11-49-2830 | Magnesium | 3600 | 31.4 |
| RB11-51-1820 | Magnesium | 3610 | 31.1 |
| RB11-44-2830 | Magnesium | 3610 | 31 |
| RB11-48-1820 | Magnesium | 3620 | 31 |
| RB11-62-2325 | Magnesium | 3620 | 30.3 |
| RB11-50-1820 | Magnesium | 3630 | 30.9 |
| RB11-47-2830 | Magnesium | 3660 | 32 |
| RB11-40-0305 | Magnesium | 3680 | 31.1 |
| RB11-BG05-2325 | Magnesium | 3690 | 34.2 |
| RB11-BG06-1820 | Magnesium | 3720 | 30.3 |
| RB11-BG03-2830 | Magnesium | 3720 | 31.4 |
| RB11-BG03-2325 | Magnesium | 3740 | 32.6 |
| RB11-63-1315 | Magnesium | 3780 | 31.1 |
| RB11-52-2830 | Magnesium | 3780 | 32.3 |
| RB11-58-2830 | Magnesium | 3780 | 30.4 |
| RB11-61-2325 | Magnesium | 3800 | 30.4 |
| RB11-57-2830 | Magnesium | 3800 | 30.5 |
| RB11-57-0810 | Magnesium | 3830 | 31.1 |
| RB11-39-0810 | Magnesium | 3850 | 31.9 |
| RB11-BG05-1820 | Magnesium | 3870 | 30.6 |
| RB11-53-1315 | Magnesium | 3890 | 30.4 |
| RB11-53-2325 | Magnesium | 3900 | 30.7 |
| RB11-43-1820 | Magnesium | 3910 | 30.7 |
| RB11-41-0305 | Magnesium | 3930 | 31.4 |
| RB11-50-2325 | Magnesium | 3930 | 30.8 |
| RB11-BG04-1315 | Magnesium | 3950 | 31 |
| RB11-55-1820 | Magnesium | 3950 | 32.3 |
| RB11-58-0810 | Magnesium | 3960 | 31.2 |
| RB11-BG03-1820 | Magnesium | 4010 | 30.5 |
| RB11-38-1820 | Magnesium | 4050 | 31.1 |
| RB11-42-0810 | Magnesium | 4070 | 30.9 |
| RB11-44-0305 | Magnesium | 4090 | 30.7 |
| RB11-64-0305FD | Magnesium | 4130 | 31.6 |
| RB11-57-1820 | Magnesium | 4130 | 30.8 |
| RB11-60-2325 | Magnesium | 4130 | 30.6 |
| RB11-38-1315 | Magnesium | 4150 | 30.8 |
| RB11-51-2830 | Magnesium | 4160 | 31.9 |
| RB11-46-0305 | Magnesium | 4200 | 32 |
| RB11-57-0305 | Magnesium | 4210 | 32 |
| RB11-40-0810 | Magnesium | 4210 | 31.5 |
| RB11-49-0305 | Magnesium | 4220 | 30.9 |
| RB11-59-0305 | Magnesium | 4220 | 31.4 |
| RB11-49-0810 | Magnesium | 4220 | 31.4 |
| RB11-52-0305 | Magnesium | 4230 | 31.5 |
| RB11-60-0305FD | Magnesium | 4230 | 31 |
| RB11-54-1820 | Magnesium | 4240 | 30.5 |
| RB11-38-0305 | Magnesium | 4260 | 31.8 |
| RB11-58-0305FD | Magnesium | 4270 | 31.8 |
| RB11-59-1315 | Magnesium | 4290 | 30.3 |
| RB11-44-2325 | Magnesium | 4300 | 33.4 |
| RB11-53-2830 | Magnesium | 4300 | 32.5 |
| RB11-51-0305FD | Magnesium | 4310 | 31.5 |
| RB11-41-1315 | Magnesium | 4320 | 30.7 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-61-0810 | Magnesium | 4330 | 30.7 |
| RB11-44-0305FD | Magnesium | 4340 | 31.5 |
| RB11-46-1315 | Magnesium | 4360 | 31 |
| RB11-47-2325 | Magnesium | 4360 | 32 |
| RB11-50-0305 | Magnesium | 4370 | 31.4 |
| RB11-56-0305 | Magnesium | 4430 | 31.1 |
| RB11-BG05-1315 | Magnesium | 4450 | 30.3 |
| RB11-51-0305 | Magnesium | 4460 | 31.4 |
| RB11-46-1820 | Magnesium | 4490 | 30 |
| RB11-39-0305 | Magnesium | 4500 | 32.4 |
| RB11-49-2325 | Magnesium | 4510 | 30.7 |
| RB11-43-0305 | Magnesium | 4520 | 31.1 |
| RB11-53-1820 | Magnesium | 4540 | 30.5 |
| RB11-41-1820 | Magnesium | 4550 | 30.6 |
| RB11-50-2830 | Magnesium | 4550 | 31.1 |
| RB11-BG03-0810 | Magnesium | 4560 | 31.7 |
| RB11-40-1315 | Magnesium | 4570 | 30.4 |
| RB11-51-1315 | Magnesium | 4590 | 31.4 |
| RB11-63-0810 | Magnesium | 4620 | 32.8 |
| RB11-38-0305FD | Magnesium | 4630 | 32.2 |
| RB11-49-1315 | Magnesium | 4630 | 32 |
| RB11-50-0810 | Magnesium | 4650 | 33 |
| RB11-48-1315 | Magnesium | 4650 | 31 |
| RB11-60-1315 | Magnesium | 4650 | 30.3 |
| RB11-50-1315 | Magnesium | 4670 | 30.6 |
| RB11-59-2830 | Magnesium | 4670 | 30.5 |
| RB11-48-0810 | Magnesium | 4680 | 32 |
| RB11-52-1315 | Magnesium | 4700 | 31.4 |
| RB11-61-1820 | Magnesium | 4710 | 30.5 |
| RB11-37-0305 | Magnesium | 4730 | 31.5 |
| RB11-42-0305 | Magnesium | 4770 | 31.3 |
| RB11-61-1315 | Magnesium | 4790 | 30.6 |
| RB11-53-0305FD | Magnesium | 4810 | 31.4 |
| RB11-64-1820 | Magnesium | 4810 | 31.2 |
| RB11-BG06-0305FD | Magnesium | 4840 | 31.3 |
| RB11-42-1315 | Magnesium | 4840 | 30.5 |
| RB11-53-0305 | Magnesium | 4870 | 31.6 |
| RB11-55-0305 | Magnesium | 4880 | 31.4 |
| RB11-58-0305 | Magnesium | 4900 | 31.4 |
| RB11-63-0305 | Magnesium | 4900 | 32.5 |
| RB11-53-0810 | Magnesium | 4900 | 31.2 |
| RB11-44-1820 | Magnesium | 4900 | 30.8 |
| RB11-56-2325 | Magnesium | 4940 | 30.7 |
| RB11-54-2830 | Magnesium | 4950 | 30.7 |
| RB11-41-0810 | Magnesium | 4960 | 31.6 |
| RB11-56-0810 | Magnesium | 5000 | 31.3 |
| RB11-56-0305FD | Magnesium | 5010 | 31.7 |
| RB11-60-0810 | Magnesium | 5010 | 31 |
| RB11-56-2830 | Magnesium | 5010 | 31 |
| RB11-37-1315 | Magnesium | 5030 | 30.8 |
| RB11-45-1315 | Magnesium | 5030 | 30 |
| RB11-55-2325 | Magnesium | 5030 | 35.7 |
| RB11-60-0305 | Magnesium | 5080 | 30.9 |
| RB11-43-0305FD | Magnesium | 5080 | 30.8 |
| RB11-55-0810 | Magnesium | 5080 | 31.4 |
| RB11-54-0305 | Magnesium | 5100 | 31.1 |
| RB11-62-0305 | Magnesium | 5100 | 31.8 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-54-0810 | Magnesium | 5100 | 31.5 |
| RB11-47-0305 | Magnesium | 5120 | 31 |
| RB11-47-1315 | Magnesium | 5130 | 31 |
| RB11-59-1820 | Magnesium | 5140 | 30.5 |
| RB11-45-0305 | Magnesium | 5160 | 31 |
| RB11-48-0305 | Magnesium | 5180 | 31 |
| RB11-44-1315 | Magnesium | 5200 | 31.2 |
| RB11-48-2325 | Magnesium | 5200 | 31 |
| RB11-45-0810 | Magnesium | 5240 | 31 |
| RB11-47-0810 | Magnesium | 5270 | 33 |
| RB11-37-0810 | Magnesium | 5310 | 31.8 |
| RB11-54-0305FD | Magnesium | 5320 | 31.7 |
| RB11-48-0305FD | Magnesium | 5370 | 32 |
| RB11-64-0810FD | Magnesium | 5500 | 31.6 |
| RB11-49-0305FD | Magnesium | 5520 | 31 |
| RB11-63-2830 | Magnesium | 5570 | 30.4 |
| RB11-62-0305FD | Magnesium | 5580 | 31.6 |
| RB11-42-1820 | Magnesium | 5580 | 31.8 |
| RB11-49-1820 | Magnesium | 5590 | 31.4 |
| RB11-BG03-0305 | Magnesium | 5600 | 31.4 |
| RB11-46-0305FD | Magnesium | 5600 | 31 |
| RB11-BG04-0305FD | Magnesium | 5640 | 32.3 |
| RB11-43-1315 | Magnesium | 5640 | 31 |
| RB11-56-1315 | Magnesium | 5670 | 30.3 |
| RB11-BG06-0810 | Magnesium | 5680 | 31.7 |
| RB11-BG04-0810 | Magnesium | 5730 | 31.8 |
| RB11-58-1315 | Magnesium | 5730 | 30.2 |
| RB11-46-0810 | Magnesium | 5900 | 31 |
| RB11-64-0810 | Magnesium | 5940 | 32 |
| RB11-51-0810 | Magnesium | 6040 | 33.1 |
| RB11-64-0305 | Magnesium | 6060 | 31.6 |
| RB11-BG06-1315 | Magnesium | 6100 | 30.8 |
| RB11-BG05-0305 | Magnesium | 6220 | 31.2 |
| RB11-43-0810 | Magnesium | 6340 | 30.9 |
| RB11-40-0305FD | Magnesium | 6550 | 31.1 |
| RB11-BG04-0305 | Magnesium | 6590 | 31.7 |
| RB11-44-0810 | Magnesium | 6590 | 31.2 |
| RB11-55-1315 | Magnesium | 6930 | 31.1 |
| RB11-56-1820 | Magnesium | 6980 | 30.5 |
| RB11-62-1315 | Magnesium | 10600 | 30.7 |
| RB11-BG06-0305 | Manganese | 75.3 | 2.1 |
| RB11-64-0305 | Manganese | 123 | 2.1 |
| RB11-59-0305 | Manganese | 130 | 2.1 |
| RB11-61-0305 | Manganese | 135 | 2.1 |
| RB11-52-2325 | Manganese | 140 | 2 |
| RB11-48-2830 | Manganese | 141 | 2.1 |
| RB11-BG04-1820 | Manganese | 142 | 2 |
| RB11-59-2325 | Manganese | 152 | 2 |
| RB11-62-0810 | Manganese | 153 | 2 |
| RB11-62-2830 | Manganese | 155 | 2 |
| RB11-38-0810 | Manganese | 157 | 2.1 |
| RB11-54-2325 | Manganese | 157 | 2 |
| RB11-57-2325 | Manganese | 157 | 2 |
| RB11-64-2325 | Manganese | 157 | 2 |
| RB11-53-0810 | Manganese | 158 | 2.1 |
| RB11-52-0810 | Manganese | 159 | 2.1 |
| RB11-BG06-0305FD | Manganese | 160 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-60-2830 | Manganese | 160 | 2.1 |
| RB11-63-2325 | Manganese | 166 | 2 |
| RB11-45-1820 | Manganese | 167 | 2 |
| RB11-43-2325 | Manganese | 167 | 2 |
| RB11-45-2830 | Manganese | 170 | 2.1 |
| RB11-BG05-2830 | Manganese | 170 | 2 |
| RB11-39-0810 | Manganese | 173 | 2.1 |
| RB11-46-2325 | Manganese | 175 | 2.3 |
| RB11-BG04-2325 | Manganese | 175 | 2 |
| RB11-63-1820 | Manganese | 176 | 2.1 |
| RB11-43-2830 | Manganese | 176 | 2 |
| RB11-BG06-2830 | Manganese | 177 | 2.2 |
| RB11-53-0305FD | Manganese | 178 | 2.1 |
| RB11-BG06-1820 | Manganese | 178 | 2 |
| RB11-64-0810FD | Manganese | 180 | 2.1 |
| RB11-54-1315 | Manganese | 180 | 2.1 |
| RB11-52-1820 | Manganese | 180 | 2 |
| RB11-57-2830 | Manganese | 180 | 2 |
| RB11-58-2325 | Manganese | 181 | 2 |
| RB11-47-1820 | Manganese | 183 | 2 |
| RB11-51-1820 | Manganese | 184 | 2.1 |
| RB11-57-0810 | Manganese | 186 | 2.1 |
| RB11-61-1820 | Manganese | 186 | 2 |
| RB11-38-0305FD | Manganese | 188 | 2.1 |
| RB11-57-1315 | Manganese | 188 | 2 |
| RB11-39-1820 | Manganese | 188 | 2 |
| RB11-64-1315 | Manganese | 189 | 2.1 |
| RB11-57-1820 | Manganese | 189 | 2.1 |
| RB11-58-1820 | Manganese | 189 | 2 |
| RB11-BG04-2830 | Manganese | 192 | 2 |
| RB11-52-0305 | Manganese | 194 | 2.1 |
| RB11-BG06-2325 | Manganese | 194 | 2 |
| RB11-61-2830 | Manganese | 194 | 2 |
| RB11-60-1820 | Manganese | 196 | 2.1 |
| RB11-39-1315 | Manganese | 197 | 2 |
| RB11-53-1315 | Manganese | 197 | 2 |
| RB11-63-1315 | Manganese | 198 | 2.1 |
| RB11-37-0810 | Manganese | 199 | 2.1 |
| RB11-42-0810 | Manganese | 199 | 2.1 |
| RB11-BG03-0810 | Manganese | 199 | 2.1 |
| RB11-BG05-0810 | Manganese | 199 | 2.2 |
| RB11-53-2325 | Manganese | 199 | 2 |
| RB11-BG03-1820 | Manganese | 201 | 2 |
| RB11-50-2325 | Manganese | 202 | 2.1 |
| RB11-51-2325 | Manganese | 204 | 2.1 |
| RB11-46-0305 | Manganese | 205 | 2.1 |
| RB11-60-0305FD | Manganese | 205 | 2.1 |
| RB11-40-0305 | Manganese | 206 | 2.1 |
| RB11-40-0810 | Manganese | 206 | 2.1 |
| RB11-63-0810 | Manganese | 206 | 2.2 |
| RB11-61-2325 | Manganese | 206 | 2 |
| RB11-44-0305 | Manganese | 207 | 2 |
| RB11-37-1820 | Manganese | 207 | 2 |
| RB11-40-1820 | Manganese | 208 | 2 |
| RB11-46-1820 | Manganese | 208 | 2 |
| RB11-37-0305 | Manganese | 209 | 2.1 |
| RB11-52-2830 | Manganese | 209 | 2.2 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-61-0810 | Manganese | 211 | 2 |
| RB11-38-1315 | Manganese | 211 | 2.1 |
| RB11-49-2830 | Manganese | 211 | 2.1 |
| RB11-BG03-2830 | Manganese | 211 | 2.1 |
| RB11-57-0305 | Manganese | 212 | 2.1 |
| RB11-58-1315 | Manganese | 212 | 2 |
| RB11-BG05-1820 | Manganese | 212 | 2 |
| RB11-55-0810 | Manganese | 213 | 2.1 |
| RB11-BG04-1315 | Manganese | 213 | 2.1 |
| RB11-45-0305 | Manganese | 214 | 2.1 |
| RB11-BG03-1315 | Manganese | 214 | 2 |
| RB11-38-1820 | Manganese | 214 | 2.1 |
| RB11-41-1820 | Manganese | 215 | 2 |
| RB11-50-0810 | Manganese | 216 | 2.2 |
| RB11-51-2830 | Manganese | 217 | 2.1 |
| RB11-58-0810 | Manganese | 218 | 2.1 |
| RB11-BG04-0810 | Manganese | 220 | 2.1 |
| RB11-53-2830 | Manganese | 220 | 2.2 |
| RB11-60-0305 | Manganese | 221 | 2.1 |
| RB11-43-1820 | Manganese | 221 | 2 |
| RB11-59-0810 | Manganese | 222 | 2 |
| RB11-60-0810 | Manganese | 223 | 2.1 |
| RB11-56-0810 | Manganese | 224 | 2.1 |
| RB11-47-2830 | Manganese | 224 | 2.1 |
| RB11-53-0305 | Manganese | 225 | 2.1 |
| RB11-48-0810 | Manganese | 225 | 2.1 |
| RB11-41-1315 | Manganese | 225 | 2 |
| RB11-62-1820 | Manganese | 225 | 2 |
| RB11-49-2325 | Manganese | 225 | 2 |
| RB11-56-0305FD | Manganese | 228 | 2.1 |
| RB11-58-0305FD | Manganese | 230 | 2.1 |
| RB11-59-1315 | Manganese | 230 | 2 |
| RB11-56-0305 | Manganese | 231 | 2.1 |
| RB11-63-0305 | Manganese | 231 | 2.2 |
| RB11-46-1315 | Manganese | 231 | 2 |
| RB11-37-1315 | Manganese | 233 | 2.1 |
| RB11-55-2830 | Manganese | 233 | 2.2 |
| RB11-60-1315 | Manganese | 234 | 2 |
| RB11-BG03-2325 | Manganese | 234 | 2.2 |
| RB11-51-0305 | Manganese | 235 | 2.1 |
| RB11-55-1820 | Manganese | 235 | 2.2 |
| RB11-58-2830 | Manganese | 235 | 2 |
| RB11-42-0305 | Manganese | 236 | 2.1 |
| RB11-45-0810 | Manganese | 236 | 2.1 |
| RB11-54-0810 | Manganese | 236 | 2.1 |
| RB11-54-0305 | Manganese | 237 | 2.1 |
| RB11-47-1315 | Manganese | 237 | 2 |
| RB11-45-1315 | Manganese | 238 | 2 |
| RB11-64-1820 | Manganese | 238 | 2.1 |
| RB11-45-2325 | Manganese | 238 | 2.2 |
| RB11-48-1820 | Manganese | 239 | 2.1 |
| RB11-54-1820 | Manganese | 240 | 2 |
| RB11-52-1315 | Manganese | 241 | 2.1 |
| RB11-BG05-1315 | Manganese | 241 | 2 |
| RB11-53-1820 | Manganese | 241 | 2 |
| RB11-BG05-2325 | Manganese | 241 | 2.3 |
| RB11-44-2830 | Manganese | 241 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-2830 | Manganese | 241 | 2.1 |
| RB11-59-2830 | Manganese | 241 | 2 |
| RB11-63-2830 | Manganese | 241 | 2 |
| RB11-41-0305 | Manganese | 243 | 2.1 |
| RB11-51-1315 | Manganese | 243 | 2.1 |
| RB11-47-2325 | Manganese | 243 | 2.1 |
| RB11-46-2830 | Manganese | 244 | 2.2 |
| RB11-46-0810 | Manganese | 246 | 2.1 |
| RB11-50-1315 | Manganese | 246 | 2 |
| RB11-48-2325 | Manganese | 248 | 2.1 |
| RB11-51-0305FD | Manganese | 249 | 2.1 |
| RB11-54-0305FD | Manganese | 249 | 2.1 |
| RB11-41-0810 | Manganese | 249 | 2.1 |
| RB11-61-1315 | Manganese | 250 | 2 |
| RB11-44-1820 | Manganese | 250 | 2.1 |
| RB11-46-0305FD | Manganese | 252 | 2.1 |
| RB11-50-2830 | Manganese | 252 | 2.1 |
| RB11-56-1315 | Manganese | 253 | 2 |
| RB11-49-0305 | Manganese | 254 | 2.1 |
| RB11-44-1315 | Manganese | 256 | 2.1 |
| RB11-48-0305 | Manganese | 258 | 2.1 |
| RB11-64-0810 | Manganese | 258 | 2.1 |
| RB11-54-2830 | Manganese | 258 | 2 |
| RB11-58-0305 | Manganese | 259 | 2.1 |
| RB11-62-0305 | Manganese | 260 | 2.1 |
| RB11-44-0305FD | Manganese | 260 | 2.1 |
| RB11-42-1315 | Manganese | 260 | 2 |
| RB11-39-0305 | Manganese | 261 | 2.2 |
| RB11-55-0305 | Manganese | 262 | 2.1 |
| RB11-BG04-0305FD | Manganese | 262 | 2.2 |
| RB11-BG06-0810 | Manganese | 262 | 2.1 |
| RB11-48-1315 | Manganese | 264 | 2 |
| RB11-50-0305 | Manganese | 265 | 2.1 |
| RB11-BG06-1315 | Manganese | 265 | 2.1 |
| RB11-42-1820 | Manganese | 265 | 2.1 |
| RB11-38-0305 | Manganese | 267 | 2.1 |
| RB11-49-1315 | Manganese | 267 | 2.1 |
| RB11-47-0810 | Manganese | 269 | 2.2 |
| RB11-49-1820 | Manganese | 270 | 2.1 |
| RB11-BG03-0305 | Manganese | 274 | 2.1 |
| RB11-59-1820 | Manganese | 274 | 2 |
| RB11-44-2325 | Manganese | 274 | 2.2 |
| RB11-50-1820 | Manganese | 280 | 2.1 |
| RB11-BG05-0305 | Manganese | 281 | 2.1 |
| RB11-40-1315 | Manganese | 281 | 2 |
| RB11-56-2325 | Manganese | 283 | 2 |
| RB11-48-0305FD | Manganese | 286 | 2.1 |
| RB11-62-0305FD | Manganese | 291 | 2.1 |
| RB11-49-0810 | Manganese | 292 | 2.1 |
| RB11-43-1315 | Manganese | 295 | 2.1 |
| RB11-49-0305FD | Manganese | 297 | 2.1 |
| RB11-55-1315 | Manganese | 298 | 2.1 |
| RB11-64-0305FD | Manganese | 306 | 2.1 |
| RB11-44-0810 | Manganese | 306 | 2.1 |
| RB11-51-0810 | Manganese | 313 | 2.2 |
| RB11-43-0305 | Manganese | 315 | 2.1 |
| RB11-43-0810 | Manganese | 315 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-47-0305 | Manganese | 323 | 2.1 |
| RB11-43-0305FD | Manganese | 326 | 2.1 |
| RB11-62-2325 | Manganese | 326 | 2 |
| RB11-BG04-0305 | Manganese | 327 | 2.1 |
| RB11-56-1820 | Manganese | 328 | 2 |
| RB11-60-2325 | Manganese | 343 | 2 |
| RB11-40-0305FD | Manganese | 366 | 2.1 |
| RB11-55-2325 | Manganese | 367 | 2.4 |
| RB11-62-1315 | Manganese | 418 | 2 |
| RB11-56-1315 | Nickel | 15.3 | 15.2 |
| RB11-56-1820 | Nickel | 15.3 | 15.2 |
| RB11-BG03-1820 | Nickel | 15.6 | 15.2 |
| RB11-44-1820 | Nickel | 16.4 | 15.4 |
| RB11-56-2325 | Nickel | 16.5 | 15.4 |
| RB11-58-1315 | Nickel | 16.6 | 15.1 |
| RB11-43-1315 | Nickel | 17.9 | 15.5 |
| RB11-61-1820 | Nickel | 18.8 | 15.2 |
| RB11-43-0810 | Nickel | 19.6 | 15.4 |
| RB11-60-2325 | Nickel | 19.9 | 15.3 |
| RB11-44-0810 | Nickel | 20.2 | 15.6 |
| RB11-48-0305 | Nickel | 22.3 | 15.9 |
| RB11-62-1315 | Nickel | 28 | 15.3 |
| RB11-59-0810 | Phenol | 0.34 | 0.33 |
| RB11-BG04-1820 | Phenol | 0.49 | 0.34 |
| RB11-38-0810 | Potassium | 524 | 517 |
| RB11-57-2325 | Potassium | 529 | 506 |
| RB11-39-1820 | Potassium | 561 | 505 |
| RB11-62-0810 | Potassium | 567 | 509 |
| RB11-59-2325 | Potassium | 583 | 508 |
| RB11-43-2325 | Potassium | 598 | 509 |
| RB11-BG06-2325 | Potassium | 604 | 508 |
| RB11-60-1820 | Potassium | 610 | 517 |
| RB11-51-2325 | Potassium | 610 | 532 |
| RB11-39-1315 | Potassium | 612 | 506 |
| RB11-61-1820 | Potassium | 617 | 508 |
| RB11-58-2325 | Potassium | 623 | 506 |
| RB11-52-1820 | Potassium | 640 | 510 |
| RB11-BG05-0810 | Potassium | 656 | 552 |
| RB11-62-1820 | Potassium | 658 | 511 |
| RB11-45-1820 | Potassium | 665 | 512 |
| RB11-64-2325 | Potassium | 671 | 512 |
| RB11-47-1820 | Potassium | 680 | 512 |
| RB11-BG04-2830 | Potassium | 697 | 508 |
| RB11-62-2830 | Potassium | 702 | 510 |
| RB11-63-1820 | Potassium | 714 | 514 |
| RB11-63-1315 | Potassium | 726 | 518 |
| RB11-64-1315 | Potassium | 726 | 520 |
| RB11-41-1820 | Potassium | 737 | 511 |
| RB11-BG06-2830 | Potassium | 737 | 545 |
| RB11-37-1820 | Potassium | 759 | 507 |
| RB11-57-2830 | Potassium | 768 | 508 |
| RB11-45-2830 | Potassium | 769 | 514 |
| RB11-BG06-0305 | Potassium | 770 | 530 |
| RB11-54-2325 | Potassium | 774 | 507 |
| RB11-40-1820 | Potassium | 776 | 507 |
| RB11-58-0810 | Potassium | 784 | 521 |
| RB11-BG05-1820 | Potassium | 785 | 510 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-58-1820 | Potassium | 786 | 506 |
| RB11-43-2830 | Potassium | 786 | 510 |
| RB11-48-1820 | Potassium | 787 | 515 |
| RB11-46-1820 | Potassium | 793 | 508 |
| RB11-60-2325 | Potassium | 795 | 510 |
| RB11-59-0810 | Potassium | 805 | 506 |
| RB11-61-2325 | Potassium | 812 | 507 |
| RB11-46-0305 | Potassium | 814 | 535 |
| RB11-BG06-1820 | Potassium | 817 | 505 |
| RB11-BG05-1315 | Potassium | 849 | 506 |
| RB11-53-1315 | Potassium | 856 | 507 |
| RB11-53-1820 | Potassium | 858 | 508 |
| RB11-46-2830 | Potassium | 858 | 552 |
| RB11-64-0810FD | Potassium | 859 | 527 |
| RB11-59-2830 | Potassium | 864 | 508 |
| RB11-54-1820 | Potassium | 882 | 508 |
| RB11-53-2325 | Potassium | 890 | 512 |
| RB11-41-1315 | Potassium | 905 | 512 |
| RB11-BG04-1315 | Potassium | 922 | 517 |
| RB11-59-1315 | Potassium | 927 | 506 |
| RB11-40-1315 | Potassium | 934 | 507 |
| RB11-54-1315 | Potassium | 937 | 526 |
| RB11-44-0305 | Potassium | 938 | 512 |
| RB11-60-1315 | Potassium | 940 | 505 |
| RB11-63-0810 | Potassium | 941 | 546 |
| RB11-37-0810 | Potassium | 960 | 530 |
| RB11-57-1315 | Potassium | 961 | 512 |
| RB11-43-1820 | Potassium | 965 | 512 |
| RB11-BG03-1315 | Potassium | 966 | 510 |
| RB11-49-2830 | Potassium | 967 | 524 |
| RB11-61-2830 | Potassium | 975 | 505 |
| RB11-45-1315 | Potassium | 985 | 507 |
| RB11-38-1315 | Potassium | 986 | 514 |
| RB11-57-1820 | Potassium | 1000 | 513 |
| RB11-48-1315 | Potassium | 1010 | 511 |
| RB11-60-0810 | Potassium | 1020 | 517 |
| RB11-BG05-2830 | Potassium | 1030 | 502 |
| RB11-44-0305FD | Potassium | 1040 | 525 |
| RB11-57-0810 | Potassium | 1040 | 518 |
| RB11-61-0810 | Potassium | 1050 | 512 |
| RB11-45-2325 | Potassium | 1050 | 538 |
| RB11-58-1315 | Potassium | 1060 | 504 |
| RB11-47-2830 | Potassium | 1060 | 531 |
| RB11-64-0305 | Potassium | 1070 | 527 |
| RB11-56-0305 | Potassium | 1080 | 518 |
| RB11-64-0810 | Potassium | 1080 | 533 |
| RB11-BG03-1820 | Potassium | 1080 | 508 |
| RB11-59-0305 | Potassium | 1090 | 523 |
| RB11-55-2830 | Potassium | 1090 | 556 |
| RB11-46-1315 | Potassium | 1110 | 510 |
| RB11-45-0810 | Potassium | 1120 | 517 |
| RB11-37-1315 | Potassium | 1130 | 514 |
| RB11-49-2325 | Potassium | 1130 | 511 |
| RB11-56-0305FD | Potassium | 1140 | 529 |
| RB11-64-1820 | Potassium | 1140 | 520 |
| RB11-60-2830 | Potassium | 1140 | 515 |
| RB11-51-0305 | Potassium | 1150 | 524 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-60-0305FD | Potassium | 1150 | 517 |
| RB11-BG06-1315 | Potassium | 1150 | 513 |
| RB11-44-1315 | Potassium | 1160 | 520 |
| RB11-BG03-2325 | Potassium | 1180 | 544 |
| RB11-BG03-0810 | Potassium | 1220 | 529 |
| RB11-50-1820 | Potassium | 1220 | 514 |
| RB11-BG04-0810 | Potassium | 1230 | 531 |
| RB11-48-2830 | Potassium | 1230 | 515 |
| RB11-BG05-2325 | Potassium | 1240 | 571 |
| RB11-39-0810 | Potassium | 1250 | 532 |
| RB11-62-2325 | Potassium | 1260 | 505 |
| RB11-61-0305 | Potassium | 1270 | 523 |
| RB11-50-1315 | Potassium | 1270 | 511 |
| RB11-45-0305 | Potassium | 1280 | 521 |
| RB11-46-0305FD | Potassium | 1280 | 514 |
| RB11-60-0305 | Potassium | 1290 | 515 |
| RB11-56-1315 | Potassium | 1300 | 506 |
| RB11-52-0305 | Potassium | 1310 | 526 |
| RB11-53-0810 | Potassium | 1310 | 520 |
| RB11-43-1315 | Potassium | 1320 | 516 |
| RB11-42-1315 | Potassium | 1330 | 509 |
| RB11-61-1315 | Potassium | 1360 | 509 |
| RB11-38-1820 | Potassium | 1360 | 518 |
| RB11-51-1820 | Potassium | 1370 | 518 |
| RB11-56-2325 | Potassium | 1370 | 512 |
| RB11-55-1820 | Potassium | 1380 | 538 |
| RB11-44-2325 | Potassium | 1380 | 556 |
| RB11-63-0305 | Potassium | 1390 | 541 |
| RB11-44-1820 | Potassium | 1400 | 513 |
| RB11-50-2325 | Potassium | 1400 | 513 |
| RB11-BG05-0305 | Potassium | 1420 | 521 |
| RB11-37-0305 | Potassium | 1440 | 525 |
| RB11-49-0305 | Potassium | 1450 | 515 |
| RB11-46-0810 | Potassium | 1460 | 514 |
| RB11-58-2830 | Potassium | 1470 | 506 |
| RB11-39-0305 | Potassium | 1480 | 540 |
| RB11-58-0305FD | Potassium | 1480 | 531 |
| RB11-BG03-2830 | Potassium | 1480 | 523 |
| RB11-40-0810 | Potassium | 1490 | 525 |
| RB11-43-0810 | Potassium | 1490 | 514 |
| RB11-57-0305 | Potassium | 1510 | 534 |
| RB11-56-2830 | Potassium | 1520 | 517 |
| RB11-42-0810 | Potassium | 1530 | 515 |
| RB11-48-0305 | Potassium | 1560 | 515 |
| RB11-52-2830 | Potassium | 1570 | 538 |
| RB11-58-0305 | Potassium | 1600 | 524 |
| RB11-51-0305FD | Potassium | 1600 | 525 |
| RB11-44-2830 | Potassium | 1600 | 516 |
| RB11-52-1315 | Potassium | 1620 | 524 |
| RB11-53-0305FD | Potassium | 1650 | 524 |
| RB11-53-2830 | Potassium | 1670 | 541 |
| RB11-59-1820 | Potassium | 1680 | 508 |
| RB11-BG06-0305FD | Potassium | 1690 | 522 |
| RB11-51-2830 | Potassium | 1690 | 532 |
| RB11-51-1315 | Potassium | 1700 | 524 |
| RB11-47-2325 | Potassium | 1720 | 531 |
| RB11-53-0305 | Potassium | 1750 | 526 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-49-1820 | Potassium | 1750 | 524 |
| RB11-42-1820 | Potassium | 1760 | 530 |
| RB11-55-2325 | Potassium | 1760 | 595 |
| RB11-50-2830 | Potassium | 1760 | 519 |
| RB11-BG04-0305 | Potassium | 1780 | 529 |
| RB11-55-0305 | Potassium | 1790 | 524 |
| RB11-48-0810 | Potassium | 1790 | 532 |
| RB11-47-0810 | Potassium | 1800 | 55.3 |
| RB11-50-0810 | Potassium | 1800 | 550 |
| RB11-54-0810 | Potassium | 1800 | 526 |
| RB11-49-1315 | Potassium | 1810 | 534 |
| RB11-47-1315 | Potassium | 1840 | 511 |
| RB11-54-0305 | Potassium | 1880 | 519 |
| RB11-49-0810 | Potassium | 1880 | 524 |
| RB11-62-0305FD | Potassium | 1930 | 526 |
| RB11-51-0810 | Potassium | 1930 | 552 |
| RB11-40-0305 | Potassium | 1970 | 519 |
| RB11-44-0810 | Potassium | 1970 | 520 |
| RB11-41-0305 | Potassium | 1990 | 523 |
| RB11-50-0305 | Potassium | 2020 | 524 |
| RB11-54-0305FD | Potassium | 2070 | 529 |
| RB11-62-0305 | Potassium | 2090 | 530 |
| RB11-40-0305FD | Potassium | 2100 | 518 |
| RB11-55-0810 | Potassium | 2100 | 524 |
| RB11-56-1820 | Potassium | 2100 | 508 |
| RB11-56-0810 | Potassium | 2120 | 521 |
| RB11-BG06-0810 | Potassium | 2140 | 528 |
| RB11-42-0305 | Potassium | 2160 | 522 |
| RB11-48-2325 | Potassium | 2160 | 517 |
| RB11-BG04-0305FD | Potassium | 2180 | 538 |
| RB11-41-0810 | Potassium | 2260 | 527 |
| RB11-48-0305FD | Potassium | 2520 | 537 |
| RB11-54-2830 | Potassium | 2590 | 511 |
| RB11-63-2830 | Potassium | 2690 | 507 |
| RB11-38-0305 | Potassium | 2720 | 531 |
| RB11-64-0305FD | Potassium | 2780 | 526 |
| RB11-43-0305 | Potassium | 2800 | 519 |
| RB11-47-0305 | Potassium | 2970 | 515 |
| RB11-BG03-0305 | Potassium | 3040 | 524 |
| RB11-62-1315 | Potassium | 3170 | 511 |
| RB11-49-0305FD | Potassium | 3320 | 517 |
| RB11-43-0305FD | Potassium | 3520 | 514 |
| RB11-38-0305FD | Potassium | 5250 | 536 |
| RB11-48-0305FD | Selenium | 0.54 | 0.54 |
| RB11-49-0305 | Sodium | 178 | 30.9 |
| RB11-BG05-0810 | Sodium | 179 | 33.1 |
| RB11-41-0305 | Sodium | 181 | 31.4 |
| RB11-48-2830 | Sodium | 181 | 31 |
| RB11-BG06-2325 | Sodium | 185 | 30.5 |
| RB11-45-1820 | Sodium | 186 | 31 |
| RB11-43-0305FD | Sodium | 187 | 30.8 |
| RB11-BG06-2830 | Sodium | 190 | 32.7 |
| RB11-40-0305 | Sodium | 191 | 31.1 |
| RB11-54-1315 | Sodium | 195 | 31.6 |
| RB11-52-0810 | Sodium | 197 | 31.1 |
| RB11-63-1315 | Sodium | 199 | 31.1 |
| RB11-64-0305FD | Sodium | 200 | 31.6 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-52-2325 | Sodium | 201 | 30.6 |
| RB11-50-0305 | Sodium | 202 | 31.4 |
| RB11-53-1315 | Sodium | 202 | 30.4 |
| RB11-63-2325 | Sodium | 204 | 30.5 |
| RB11-43-0305 | Sodium | 205 | 31.1 |
| RB11-52-1820 | Sodium | 207 | 30.6 |
| RB11-54-1820 | Sodium | 208 | 30.5 |
| RB11-50-2325 | Sodium | 209 | 30.8 |
| RB11-43-1820 | Sodium | 210 | 30.7 |
| RB11-63-0305 | Sodium | 211 | 32.5 |
| RB11-49-0305FD | Sodium | 216 | 31 |
| RB11-57-0810 | Sodium | 216 | 31.1 |
| RB11-45-1315 | Sodium | 216 | 30 |
| RB11-42-0305 | Sodium | 221 | 31.3 |
| RB11-47-1315 | Sodium | 222 | 31 |
| RB11-41-0810 | Sodium | 223 | 31.6 |
| RB11-55-1315 | Sodium | 223 | 31.1 |
| RB11-45-0810 | Sodium | 224 | 31 |
| RB11-50-0810 | Sodium | 225 | 33 |
| RB11-62-0810 | Sodium | 225 | 30.6 |
| RB11-48-1820 | Sodium | 225 | 31 |
| RB11-43-2325 | Sodium | 226 | 30.5 |
| RB11-63-0810 | Sodium | 227 | 32.8 |
| RB11-53-1820 | Sodium | 227 | 30.5 |
| RB11-48-1315 | Sodium | 228 | 31 |
| RB11-43-1315 | Sodium | 231 | 31 |
| RB11-49-2325 | Sodium | 232 | 30.7 |
| RB11-39-1315 | Sodium | 233 | 30.3 |
| RB11-43-0810 | Sodium | 235 | 30.9 |
| RB11-BG04-1820 | Sodium | 235 | 30.6 |
| RB11-BG04-0305 | Sodium | 236 | 31.7 |
| RB11-51-2325 | Sodium | 238 | 31.9 |
| RB11-42-0810 | Sodium | 240 | 30.9 |
| RB11-BG04-0305FD | Sodium | 242 | 32.3 |
| RB11-42-1315 | Sodium | 242 | 30.5 |
| RB11-54-2325 | Sodium | 242 | 30.4 |
| RB11-48-0305 | Sodium | 243 | 31 |
| RB11-47-0810 | Sodium | 243 | 33 |
| RB11-50-1315 | Sodium | 245 | 30.6 |
| RB11-47-1820 | Sodium | 246 | 31 |
| RB11-BG03-1820 | Sodium | 246 | 30.5 |
| RB11-44-0305FD | Sodium | 247 | 31.5 |
| RB11-64-1315 | Sodium | 247 | 31.2 |
| RB11-44-0305 | Sodium | 253 | 30.7 |
| RB11-BG03-2325 | Sodium | 253 | 32.6 |
| RB11-62-2830 | Sodium | 253 | 30.6 |
| RB11-BG06-1820 | Sodium | 254 | 30.3 |
| RB11-BG04-1315 | Sodium | 255 | 31 |
| RB11-63-1820 | Sodium | 255 | 30.8 |
| RB11-43-2830 | Sodium | 256 | 30.6 |
| RB11-49-1315 | Sodium | 258 | 32 |
| RB11-48-0305FD | Sodium | 260 | 32 |
| RB11-50-2830 | Sodium | 262 | 31.1 |
| RB11-47-0305 | Sodium | 263 | 31 |
| RB11-52-0305 | Sodium | 263 | 31.5 |
| RB11-49-0810 | Sodium | 263 | 31.4 |
| RB11-45-2830 | Sodium | 263 | 31 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-59-0810 | Sodium | 266 | 30.3 |
| RB11-BG03-1315 | Sodium | 266 | 30.6 |
| RB11-54-2830 | Sodium | 267 | 30.7 |
| RB11-41-1315 | Sodium | 268 | 30.7 |
| RB11-57-2325 | Sodium | 270 | 30.3 |
| RB11-BG05-1315 | Sodium | 271 | 30.3 |
| RB11-58-2325 | Sodium | 273 | 30.3 |
| RB11-BG06-1315 | Sodium | 274 | 30.8 |
| RB11-60-0305FD | Sodium | 277 | 31 |
| RB11-49-1820 | Sodium | 277 | 31.4 |
| RB11-55-0305 | Sodium | 284 | 31.4 |
| RB11-64-2325 | Sodium | 285 | 30.7 |
| RB11-61-1820 | Sodium | 291 | 30.5 |
| RB11-55-0810 | Sodium | 292 | 31.4 |
| RB11-53-2325 | Sodium | 292 | 30.7 |
| RB11-52-1315 | Sodium | 293 | 31.4 |
| RB11-57-1315 | Sodium | 295 | 30.7 |
| RB11-41-1820 | Sodium | 295 | 30.6 |
| RB11-58-1820 | Sodium | 302 | 30.3 |
| RB11-51-0305 | Sodium | 304 | 31.4 |
| RB11-42-1820 | Sodium | 304 | 31.8 |
| RB11-60-1315 | Sodium | 307 | 30.3 |
| RB11-BG03-2830 | Sodium | 308 | 31.4 |
| RB11-57-2830 | Sodium | 310 | 30.5 |
| RB11-39-1820 | Sodium | 311 | 30.3 |
| RB11-59-2325 | Sodium | 312 | 30.5 |
| RB11-51-0810 | Sodium | 314 | 33.1 |
| RB11-58-2830 | Sodium | 315 | 30.4 |
| RB11-62-1820 | Sodium | 316 | 30.6 |
| RB11-51-1315 | Sodium | 319 | 31.4 |
| RB11-64-0305 | Sodium | 323 | 31.6 |
| RB11-54-0305FD | Sodium | 323 | 31.7 |
| RB11-40-1820 | Sodium | 324 | 30.4 |
| RB11-BG04-2830 | Sodium | 325 | 30.5 |
| RB11-44-1315 | Sodium | 326 | 31.2 |
| RB11-58-0810 | Sodium | 327 | 31.2 |
| RB11-46-1820 | Sodium | 329 | 30 |
| RB11-61-2325 | Sodium | 330 | 30.4 |
| RB11-53-0305FD | Sodium | 331 | 31.4 |
| RB11-60-1820 | Sodium | 331 | 31 |
| RB11-49-2830 | Sodium | 335 | 31.4 |
| RB11-BG05-1820 | Sodium | 337 | 30.6 |
| RB11-53-0810 | Sodium | 339 | 31.2 |
| RB11-48-2325 | Sodium | 339 | 31 |
| RB11-47-2830 | Sodium | 341 | 32 |
| RB11-60-0305 | Sodium | 343 | 30.9 |
| RB11-59-1820 | Sodium | 344 | 30.5 |
| RB11-38-0810 | Sodium | 362 | 31 |
| RB11-BG04-2325 | Sodium | 364 | 30.6 |
| RB11-45-0305 | Sodium | 374 | 31 |
| RB11-54-0810 | Sodium | 374 | 31.5 |
| RB11-60-2325 | Sodium | 374 | 30.6 |
| RB11-59-1315 | Sodium | 384 | 30.3 |
| RB11-61-2830 | Sodium | 385 | 30.3 |
| RB11-59-0305 | Sodium | 386 | 31.4 |
| RB11-62-2325 | Sodium | 387 | 30.3 |
| RB11-61-1315 | Sodium | 390 | 30.6 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-46-1315 | Sodium | 397 | 31 |
| RB11-39-0305 | Sodium | 399 | 32.4 |
| RB11-51-1820 | Sodium | 400 | 31.1 |
| RB11-39-0810 | Sodium | 406 | 31.9 |
| RB11-54-0305 | Sodium | 409 | 31.1 |
| RB11-58-1315 | Sodium | 409 | 30.2 |
| RB11-64-0810FD | Sodium | 411 | 31.6 |
| RB11-59-2830 | Sodium | 412 | 30.5 |
| RB11-46-0810 | Sodium | 413 | 31 |
| RB11-56-2325 | Sodium | 415 | 30.7 |
| RB11-51-0305FD | Sodium | 416 | 31.5 |
| RB11-44-1820 | Sodium | 418 | 30.8 |
| RB11-44-0810 | Sodium | 419 | 31.2 |
| RB11-56-0810 | Sodium | 419 | 31.3 |
| RB11-64-1820 | Sodium | 422 | 31.2 |
| RB11-BG05-0305 | Sodium | 428 | 31.2 |
| RB11-38-0305 | Sodium | 431 | 31.8 |
| RB11-BG04-0810 | Sodium | 434 | 31.8 |
| RB11-60-0810 | Sodium | 440 | 31 |
| RB11-56-1315 | Sodium | 453 | 30.3 |
| RB11-51-2830 | Sodium | 455 | 31.9 |
| RB11-53-0305 | Sodium | 456 | 31.6 |
| RB11-56-0305 | Sodium | 464 | 31.1 |
| RB11-57-0305 | Sodium | 466 | 32 |
| RB11-37-1820 | Sodium | 467 | 30.4 |
| RB11-44-2830 | Sodium | 468 | 31 |
| RB11-38-1315 | Sodium | 471 | 30.8 |
| RB11-57-1820 | Sodium | 472 | 30.8 |
| RB11-50-1820 | Sodium | 473 | 30.9 |
| RB11-56-2830 | Sodium | 473 | 31 |
| RB11-47-2325 | Sodium | 478 | 32 |
| RB11-64-0810 | Sodium | 486 | 32 |
| RB11-61-0305 | Sodium | 489 | 31.4 |
| RB11-60-2830 | Sodium | 490 | 30.9 |
| RB11-58-0305 | Sodium | 492 | 31.4 |
| RB11-62-0305 | Sodium | 496 | 31.8 |
| RB11-45-2325 | Sodium | 498 | 32 |
| RB11-56-0305FD | Sodium | 504 | 31.7 |
| RB11-BG03-0810 | Sodium | 505 | 31.7 |
| RB11-56-1820 | Sodium | 506 | 30.5 |
| RB11-58-0305FD | Sodium | 511 | 31.8 |
| RB11-46-0305 | Sodium | 516 | 32 |
| RB11-BG06-0810 | Sodium | 516 | 31.7 |
| RB11-61-0810 | Sodium | 520 | 30.7 |
| RB11-52-2830 | Sodium | 525 | 32.3 |
| RB11-44-2325 | Sodium | 528 | 33.4 |
| RB11-55-1820 | Sodium | 530 | 32.3 |
| RB11-BG06-0305FD | Sodium | 544 | 31.3 |
| RB11-62-0305FD | Sodium | 548 | 31.6 |
| RB11-55-2830 | Sodium | 551 | 33.4 |
| RB11-BG05-2830 | Sodium | 561 | 30.1 |
| RB11-BG06-0305 | Sodium | 571 | 31.8 |
| RB11-63-2830 | Sodium | 576 | 30.4 |
| RB11-53-2830 | Sodium | 579 | 32.5 |
| RB11-46-0305FD | Sodium | 585 | 31 |
| RB11-46-2325 | Sodium | 587 | 34 |
| RB11-40-1315 | Sodium | 629 | 30.4 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-48-0810 | Sodium | 639 | 32 |
| RB11-40-0305FD | Sodium | 649 | 31.1 |
| RB11-37-0305 | Sodium | 657 | 31.5 |
| RB11-37-1315 | Sodium | 690 | 30.8 |
| RB11-37-0810 | Sodium | 695 | 31.8 |
| RB11-40-0810 | Sodium | 720 | 31.5 |
| RB11-55-2325 | Sodium | 723 | 35.7 |
| RB11-BG03-0305 | Sodium | 736 | 31.4 |
| RB11-38-1820 | Sodium | 796 | 31.1 |
| RB11-BG05-2325 | Sodium | 862 | 34.2 |
| RB11-46-2830 | Sodium | 974 | 33 |
| RB11-38-0305FD | Sodium | 1010 | 32.2 |
| RB11-62-1315 | Sodium | 1020 | 30.7 |
| RB11-41-0810 | Styrene | 0.005 | 0.005 |
| RB11-42-0305 | Thallium | 0.1 | 0.1 |
| RB11-45-0305 | Thallium | 0.1 | 0.1 |
| RB11-46-0305FD | Thallium | 0.1 | 0.1 |
| RB11-38-0810 | Thallium | 0.1 | 0.1 |
| RB11-49-0810 | Thallium | 0.1 | 0.1 |
| RB11-59-0810 | Thallium | 0.1 | 0.1 |
| RB11-38-1315 | Thallium | 0.1 | 0.1 |
| RB11-57-1315 | Thallium | 0.1 | 0.1 |
| RB11-44-1820 | Thallium | 0.1 | 0.1 |
| RB11-48-2325 | Thallium | 0.1 | 0.1 |
| RB11-52-0305 | Thallium | 0.11 | 0.11 |
| RB11-56-0305 | Thallium | 0.11 | 0.1 |
| RB11-49-0305FD | Thallium | 0.11 | 0.1 |
| RB11-39-0810 | Thallium | 0.11 | 0.11 |
| RB11-45-0810 | Thallium | 0.11 | 0.1 |
| RB11-42-1315 | Thallium | 0.11 | 0.1 |
| RB11-47-1315 | Thallium | 0.11 | 0.1 |
| RB11-63-1820 | Thallium | 0.11 | 0.1 |
| RB11-46-2325 | Thallium | 0.11 | 0.11 |
| RB11-46-2830 | Thallium | 0.11 | 0.11 |
| RB11-55-2830 | Thallium | 0.11 | 0.11 |
| RB11-60-2830 | Thallium | 0.11 | 0.1 |
| RB11-37-0305 | Thallium | 0.12 | 0.1 |
| RB11-40-0305 | Thallium | 0.12 | 0.1 |
| RB11-41-0305 | Thallium | 0.12 | 0.1 |
| RB11-44-0305 | Thallium | 0.12 | 0.1 |
| RB11-46-0305 | Thallium | 0.12 | 0.11 |
| RB11-48-0305 | Thallium | 0.12 | 0.1 |
| RB11-61-0305 | Thallium | 0.12 | 0.1 |
| RB11-BG05-0305 | Thallium | 0.12 | 0.1 |
| RB11-40-0305FD | Thallium | 0.12 | 0.1 |
| RB11-44-0810 | Thallium | 0.12 | 0.1 |
| RB11-47-0810 | Thallium | 0.12 | 0.11 |
| RB11-46-1315 | Thallium | 0.12 | 0.1 |
| RB11-53-1315 | Thallium | 0.12 | 0.1 |
| RB11-BG06-1315 | Thallium | 0.12 | 0.1 |
| RB11-38-1820 | Thallium | 0.12 | 0.1 |
| RB11-62-1820 | Thallium | 0.12 | 0.1 |
| RB11-45-2325 | Thallium | 0.12 | 0.11 |
| RB11-62-2325 | Thallium | 0.12 | 0.1 |
| RB11-58-2830 | Thallium | 0.12 | 0.1 |
| RB11-62-2830 | Thallium | 0.12 | 0.1 |
| RB11-38-0305 | Thallium | 0.13 | 0.11 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-60-0305 | Thallium | 0.13 | 0.1 |
| RB11-BG04-0305FD | Thallium | 0.13 | 0.11 |
| RB11-60-0810 | Thallium | 0.13 | 0.1 |
| RB11-37-1315 | Thallium | 0.13 | 0.1 |
| RB11-53-1820 | Thallium | 0.13 | 0.1 |
| RB11-BG05-2325 | Thallium | 0.13 | 0.11 |
| RB11-54-2830 | Thallium | 0.13 | 0.1 |
| RB11-60-0305FD | Thallium | 0.14 | 0.1 |
| RB11-41-0810 | Thallium | 0.14 | 0.11 |
| RB11-51-0810 | Thallium | 0.14 | 0.11 |
| RB11-63-0810 | Thallium | 0.14 | 0.11 |
| RB11-BG03-0810 | Thallium | 0.14 | 0.11 |
| RB11-58-1315 | Thallium | 0.14 | 0.1 |
| RB11-42-1820 | Thallium | 0.14 | 0.11 |
| RB11-58-1820 | Thallium | 0.14 | 0.1 |
| RB11-44-2325 | Thallium | 0.14 | 0.11 |
| RB11-63-2830 | Thallium | 0.14 | 0.1 |
| RB11-53-0305 | Thallium | 0.15 | 0.11 |
| RB11-55-0305 | Thallium | 0.15 | 0.1 |
| RB11-BG03-0305 | Thallium | 0.15 | 0.1 |
| RB11-53-0305FD | Thallium | 0.15 | 0.1 |
| RB11-BG06-0810 | Thallium | 0.15 | 0.11 |
| RB11-49-1315 | Thallium | 0.15 | 0.11 |
| RB11-50-1820 | Thallium | 0.15 | 0.1 |
| RB11-BG03-2325 | Thallium | 0.15 | 0.11 |
| RB11-39-0305 | Thallium | 0.16 | 0.11 |
| RB11-43-0305 | Thallium | 0.16 | 0.1 |
| RB11-42-0810 | Thallium | 0.16 | 0.1 |
| RB11-46-0810 | Thallium | 0.16 | 0.1 |
| RB11-55-0810 | Thallium | 0.16 | 0.1 |
| RB11-56-0810 | Thallium | 0.16 | 0.1 |
| RB11-64-0810 | Thallium | 0.16 | 0.11 |
| RB11-44-1315 | Thallium | 0.16 | 0.1 |
| RB11-61-1315 | Thallium | 0.16 | 0.1 |
| RB11-55-1820 | Thallium | 0.16 | 0.11 |
| RB11-56-0305FD | Thallium | 0.17 | 0.11 |
| RB11-58-0305FD | Thallium | 0.17 | 0.11 |
| RB11-62-0305FD | Thallium | 0.17 | 0.11 |
| RB11-43-0810 | Thallium | 0.17 | 0.1 |
| RB11-61-0810 | Thallium | 0.17 | 0.1 |
| RB11-44-2830 | Thallium | 0.17 | 0.1 |
| RB11-53-2830 | Thallium | 0.17 | 0.11 |
| RB11-57-0305 | Thallium | 0.18 | 0.11 |
| RB11-63-0305 | Thallium | 0.18 | 0.11 |
| RB11-BG04-0305 | Thallium | 0.18 | 0.11 |
| RB11-48-0305FD | Thallium | 0.18 | 0.11 |
| RB11-54-0810 | Thallium | 0.18 | 0.11 |
| RB11-56-1315 | Thallium | 0.18 | 0.1 |
| RB11-62-1315 | Thallium | 0.18 | 0.1 |
| RB11-57-1820 | Thallium | 0.18 | 0.1 |
| RB11-56-2325 | Thallium | 0.18 | 0.1 |
| RB11-54-0305 | Thallium | 0.19 | 0.1 |
| RB11-58-0305 | Thallium | 0.19 | 0.1 |
| RB11-62-0305 | Thallium | 0.19 | 0.11 |
| RB11-54-0305FD | Thallium | 0.19 | 0.11 |
| RB11-59-1820 | Thallium | 0.19 | 0.1 |
| RB11-53-0810 | Thallium | 0.2 | 0.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-64-0305FD | Thallium | 0.22 | 0.11 |
| RB11-56-1820 | Thallium | 0.22 | 0.1 |
| RB11-47-0305 | Thallium | 0.23 | 0.1 |
| RB11-43-0305FD | Thallium | 0.23 | 0.1 |
| RB11-56-2830 | Thallium | 0.47 | 0.1 |
| RB11-55-2325 | Thallium | 0.58 | 0.12 |
| RB11-60-1820 | Vanadium | 9.7 | 8.3 |
| RB11-57-2325 | Vanadium | 10.7 | 8.1 |
| RB11-39-1820 | Vanadium | 10.9 | 8.1 |
| RB11-62-2830 | Vanadium | 10.9 | 8.2 |
| RB11-BG04-2325 | Vanadium | 11.3 | 8.1 |
| RB11-BG06-2830 | Vanadium | 12.1 | 8.7 |
| RB11-52-0810 | Vanadium | 12.2 | 8.3 |
| RB11-58-1820 | Vanadium | 12.2 | 8.1 |
| RB11-64-1315 | Vanadium | 12.3 | 8.3 |
| RB11-52-2325 | Vanadium | 12.6 | 8.2 |
| RB11-62-1820 | Vanadium | 12.9 | 8.2 |
| RB11-59-2325 | Vanadium | 13 | 8.1 |
| RB11-52-1820 | Vanadium | 13.1 | 8.2 |
| RB11-63-1315 | Vanadium | 13.4 | 8.3 |
| RB11-45-2830 | Vanadium | 13.4 | 8.2 |
| RB11-47-1820 | Vanadium | 13.7 | 8.2 |
| RB11-63-1820 | Vanadium | 13.7 | 8.2 |
| RB11-63-2325 | Vanadium | 13.7 | 8.1 |
| RB11-BG06-0305 | Vanadium | 13.9 | 8.5 |
| RB11-BG06-2325 | Vanadium | 13.9 | 8.1 |
| RB11-48-1820 | Vanadium | 14 | 8.2 |
| RB11-BG05-2830 | Vanadium | 14.2 | 8 |
| RB11-64-2325 | Vanadium | 14.3 | 8.2 |
| RB11-46-2325 | Vanadium | 14.7 | 9.2 |
| RB11-45-1820 | Vanadium | 14.9 | 8.2 |
| RB11-BG05-1820 | Vanadium | 14.9 | 8.2 |
| RB11-57-1820 | Vanadium | 15.2 | 8.2 |
| RB11-BG04-1820 | Vanadium | 15.3 | 8.2 |
| RB11-BG06-1820 | Vanadium | 15.4 | 8.1 |
| RB11-39-1315 | Vanadium | 15.5 | 8.1 |
| RB11-43-2325 | Vanadium | 15.7 | 8.1 |
| RB11-58-2325 | Vanadium | 16.1 | 8.1 |
| RB11-48-2830 | Vanadium | 16.1 | 8.2 |
| RB11-BG04-2830 | Vanadium | 16.1 | 8.1 |
| RB11-38-0810 | Vanadium | 16.3 | 8.3 |
| RB11-BG03-1315 | Vanadium | 17.2 | 8.2 |
| RB11-50-1820 | Vanadium | 17.2 | 8.2 |
| RB11-52-0305 | Vanadium | 17.3 | 8.4 |
| RB11-49-0305 | Vanadium | 17.4 | 8.2 |
| RB11-45-0810 | Vanadium | 17.5 | 8.3 |
| RB11-62-0810 | Vanadium | 17.5 | 8.1 |
| RB11-53-2325 | Vanadium | 17.5 | 8.2 |
| RB11-54-2325 | Vanadium | 17.7 | 8.1 |
| RB11-46-1315 | Vanadium | 17.8 | 8.2 |
| RB11-41-1820 | Vanadium | 17.9 | 8.2 |
| RB11-61-1820 | Vanadium | 18.2 | 8.1 |
| RB11-57-0810 | Vanadium | 18.6 | 8.3 |
| RB11-58-0810 | Vanadium | 18.8 | 8.3 |
| RB11-38-0305FD | Vanadium | 18.9 | 8.6 |
| RB11-BG03-2325 | Vanadium | 18.9 | 8.7 |
| RB11-61-0810 | Vanadium | 19.2 | 8.2 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-60-2830 | Vanadium | 19.2 | 8.2 |
| RB11-BG03-1820 | Vanadium | 19.3 | 8.1 |
| RB11-58-0305FD | Vanadium | 19.4 | 8.5 |
| RB11-62-2325 | Vanadium | 19.5 | 8.1 |
| RB11-48-0810 | Vanadium | 19.8 | 8.5 |
| RB11-57-1315 | Vanadium | 19.8 | 8.2 |
| RB11-51-1820 | Vanadium | 20 | 8.3 |
| RB11-39-0810 | Vanadium | 20.1 | 8.5 |
| RB11-37-1820 | Vanadium | 20.2 | 8.1 |
| RB11-49-0810 | Vanadium | 20.3 | 8.4 |
| RB11-49-2325 | Vanadium | 20.3 | 8.2 |
| RB11-54-1820 | Vanadium | 20.4 | 8.1 |
| RB11-46-2830 | Vanadium | 20.5 | 8.8 |
| RB11-59-0305 | Vanadium | 20.7 | 8.4 |
| RB11-BG06-1315 | Vanadium | 20.7 | 8.2 |
| RB11-61-2325 | Vanadium | 20.7 | 8.1 |
| RB11-BG05-0810 | Vanadium | 20.8 | 8.8 |
| RB11-61-2830 | Vanadium | 20.8 | 8.1 |
| RB11-50-0305 | Vanadium | 20.9 | 8.4 |
| RB11-50-2325 | Vanadium | 20.9 | 8.2 |
| RB11-58-0305 | Vanadium | 21.1 | 8.4 |
| RB11-51-0305FD | Vanadium | 21.1 | 8.4 |
| RB11-46-1820 | Vanadium | 21.2 | 8.1 |
| RB11-60-2325 | Vanadium | 21.2 | 8.2 |
| RB11-55-1315 | Vanadium | 21.3 | 8.3 |
| RB11-45-2325 | Vanadium | 21.3 | 8.6 |
| RB11-59-1315 | Vanadium | 21.4 | 8.1 |
| RB11-60-1315 | Vanadium | 21.4 | 8.1 |
| RB11-BG03-0810 | Vanadium | 21.5 | 8.5 |
| RB11-63-0305 | Vanadium | 21.6 | 8.7 |
| RB11-61-1315 | Vanadium | 21.6 | 8.1 |
| RB11-53-2830 | Vanadium | 21.6 | 8.7 |
| RB11-61-0305 | Vanadium | 21.7 | 8.4 |
| RB11-42-0810 | Vanadium | 21.7 | 8.2 |
| RB11-37-0305 | Vanadium | 21.8 | 8.4 |
| RB11-40-0810 | Vanadium | 21.8 | 8.4 |
| RB11-60-0305FD | Vanadium | 21.9 | 8.3 |
| RB11-54-1315 | Vanadium | 21.9 | 8.4 |
| RB11-45-1315 | Vanadium | 22 | 8.1 |
| RB11-46-0305FD | Vanadium | 22.2 | 8.2 |
| RB11-BG05-1315 | Vanadium | 22.2 | 8.1 |
| RB11-40-0305 | Vanadium | 22.3 | 8.3 |
| RB11-43-2830 | Vanadium | 22.3 | 8.2 |
| RB11-43-1315 | Vanadium | 22.4 | 8.3 |
| RB11-53-1315 | Vanadium | 22.5 | 8.1 |
| RB11-59-2830 | Vanadium | 22.5 | 8.1 |
| RB11-49-1315 | Vanadium | 22.7 | 8.5 |
| RB11-56-2325 | Vanadium | 22.7 | 8.2 |
| RB11-55-2830 | Vanadium | 22.8 | 8.9 |
| RB11-59-0810 | Vanadium | 23 | 8.1 |
| RB11-44-1315 | Vanadium | 23 | 8.3 |
| RB11-44-0305FD | Vanadium | 23.1 | 8.4 |
| RB11-38-1315 | Vanadium | 23.3 | 8.2 |
| RB11-53-1820 | Vanadium | 23.3 | 8.1 |
| RB11-51-2325 | Vanadium | 23.3 | 8.5 |
| RB11-BG05-2325 | Vanadium | 23.3 | 9.1 |
| RB11-40-1315 | Vanadium | 23.4 | 8.1 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-41-0305 | Vanadium | 23.6 | 8.4 |
| RB11-43-0305 | Vanadium | 23.6 | 8.3 |
| RB11-51-0305 | Vanadium | 23.9 | 8.4 |
| RB11-64-0305FD | Vanadium | 24.1 | 8.4 |
| RB11-52-2830 | Vanadium | 24.1 | 8.6 |
| RB11-37-0810 | Vanadium | 24.2 | 8.5 |
| RB11-51-1315 | Vanadium | 24.2 | 8.4 |
| RB11-43-1820 | Vanadium | 24.2 | 8.2 |
| RB11-44-0305 | Vanadium | 24.4 | 8.2 |
| RB11-43-0810 | Vanadium | 24.4 | 8.2 |
| RB11-64-0305 | Vanadium | 24.5 | 8.4 |
| RB11-54-2830 | Vanadium | 24.9 | 8.2 |
| RB11-46-0305 | Vanadium | 25.2 | 8.6 |
| RB11-38-1820 | Vanadium | 25.2 | 8.3 |
| RB11-BG03-2830 | Vanadium | 25.3 | 8.4 |
| RB11-41-1315 | Vanadium | 25.4 | 8.2 |
| RB11-46-0810 | Vanadium | 25.6 | 8.2 |
| RB11-48-1315 | Vanadium | 25.7 | 8.2 |
| RB11-64-0810 | Vanadium | 25.8 | 8.5 |
| RB11-38-0305 | Vanadium | 26 | 8.5 |
| RB11-47-0810 | Vanadium | 26 | 8.8 |
| RB11-60-0810 | Vanadium | 26.2 | 8.3 |
| RB11-57-2830 | Vanadium | 26.2 | 8.1 |
| RB11-55-2325 | Vanadium | 26.3 | 9.5 |
| RB11-52-1315 | Vanadium | 26.4 | 8.4 |
| RB11-44-2325 | Vanadium | 26.4 | 8.9 |
| RB11-56-1315 | Vanadium | 26.5 | 8.1 |
| RB11-47-2325 | Vanadium | 26.5 | 8.5 |
| RB11-58-1315 | Vanadium | 26.8 | 8.1 |
| RB11-BG04-1315 | Vanadium | 26.8 | 8.3 |
| RB11-BG06-0305FD | Vanadium | 27 | 8.4 |
| RB11-57-0305 | Vanadium | 27.2 | 8.5 |
| RB11-43-0305FD | Vanadium | 27.2 | 8.2 |
| RB11-48-0305 | Vanadium | 27.5 | 8.2 |
| RB11-BG04-0305 | Vanadium | 27.5 | 8.5 |
| RB11-54-0305 | Vanadium | 27.8 | 8.3 |
| RB11-37-1315 | Vanadium | 27.8 | 8.2 |
| RB11-63-0810 | Vanadium | 27.9 | 8.7 |
| RB11-56-0810 | Vanadium | 28 | 8.3 |
| RB11-39-0305 | Vanadium | 28.1 | 8.6 |
| RB11-47-0305 | Vanadium | 28.1 | 8.2 |
| RB11-62-0305FD | Vanadium | 28.1 | 8.4 |
| RB11-53-0305 | Vanadium | 28.3 | 8.4 |
| RB11-54-0810 | Vanadium | 28.4 | 8.4 |
| RB11-47-1315 | Vanadium | 28.4 | 8.2 |
| RB11-59-1820 | Vanadium | 28.4 | 8.1 |
| RB11-62-0305 | Vanadium | 28.5 | 8.5 |
| RB11-64-1820 | Vanadium | 28.5 | 8.3 |
| RB11-55-1820 | Vanadium | 28.7 | 8.6 |
| RB11-BG04-0810 | Vanadium | 28.9 | 8.5 |
| RB11-63-2830 | Vanadium | 29 | 8.1 |
| RB11-60-0305 | Vanadium | 29.5 | 8.2 |
| RB11-40-0305FD | Vanadium | 29.5 | 8.3 |
| RB11-50-2830 | Vanadium | 29.5 | 8.3 |
| RB11-50-0810 | Vanadium | 29.6 | 8.8 |
| RB11-58-2830 | Vanadium | 29.6 | 8.1 |
| RB11-56-0305 | Vanadium | 30 | 8.3 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-56-2830 | Vanadium | 30 | 8.3 |
| RB11-53-0810 | Vanadium | 30.2 | 8.3 |
| RB11-48-2325 | Vanadium | 30.3 | 8.3 |
| RB11-55-0810 | Vanadium | 30.4 | 8.4 |
| RB11-51-2830 | Vanadium | 30.4 | 8.5 |
| RB11-49-0305FD | Vanadium | 30.6 | 8.3 |
| RB11-51-0810 | Vanadium | 30.6 | 8.8 |
| RB11-64-0810FD | Vanadium | 30.6 | 8.4 |
| RB11-53-0305FD | Vanadium | 31 | 8.4 |
| RB11-40-1820 | Vanadium | 31.1 | 8.1 |
| RB11-42-0305 | Vanadium | 31.2 | 8.4 |
| RB11-49-1820 | Vanadium | 31.3 | 8.4 |
| RB11-54-0305FD | Vanadium | 31.4 | 8.5 |
| RB11-48-0305FD | Vanadium | 31.8 | 8.6 |
| RB11-45-0305 | Vanadium | 32.2 | 8.3 |
| RB11-41-0810 | Vanadium | 32.3 | 8.4 |
| RB11-55-0305 | Vanadium | 33 | 8.4 |
| RB11-BG03-0305 | Vanadium | 33 | 8.4 |
| RB11-BG04-0305FD | Vanadium | 33.1 | 8.6 |
| RB11-BG05-0305 | Vanadium | 33.2 | 8.3 |
| RB11-BG06-0810 | Vanadium | 33.5 | 8.4 |
| RB11-56-0305FD | Vanadium | 33.7 | 8.5 |
| RB11-44-0810 | Vanadium | 33.9 | 8.3 |
| RB11-44-2830 | Vanadium | 34.5 | 8.3 |
| RB11-47-2830 | Vanadium | 35.8 | 8.5 |
| RB11-44-1820 | Vanadium | 36.1 | 8.2 |
| RB11-42-1820 | Vanadium | 37.3 | 8.5 |
| RB11-56-1820 | Vanadium | 37.4 | 8.1 |
| RB11-62-1315 | Vanadium | 37.6 | 8.2 |
| RB11-42-1315 | Vanadium | 39.3 | 8.1 |
| RB11-50-1315 | Vanadium | 44.1 | 8.2 |
| RB11-49-2830 | Vanadium | 81.4 | 8.4 |
| RB11-BG06-2325 | Zinc | 20.4 | 2 |
| RB11-48-2830 | Zinc | 21.1 | 2.1 |
| RB11-BG04-2325 | Zinc | 22.2 | 2 |
| RB11-54-2325 | Zinc | 22.8 | 2 |
| RB11-BG06-0305 | Zinc | 24.9 | 2.1 |
| RB11-64-2325 | Zinc | 27 | 2 |
| RB11-64-0305 | Zinc | 27.1 | 2.1 |
| RB11-51-1820 | Zinc | 27.1 | 2.1 |
| RB11-55-2830 | Zinc | 27.2 | 2.2 |
| RB11-52-2325 | Zinc | 27.3 | 2 |
| RB11-BG03-2325 | Zinc | 27.9 | 2.2 |
| RB11-59-0305 | Zinc | 28 | 2.1 |
| RB11-60-1820 | Zinc | 28.3 | 2.1 |
| RB11-53-0810 | Zinc | 28.6 | 2.1 |
| RB11-46-2325 | Zinc | 29 | 2.3 |
| RB11-54-1315 | Zinc | 29.6 | 2.1 |
| RB11-51-2830 | Zinc | 29.7 | 2.1 |
| RB11-61-0810 | Zinc | 29.8 | 2 |
| RB11-BG06-1820 | Zinc | 29.8 | 2 |
| RB11-BG03-0810 | Zinc | 30 | 2.1 |
| RB11-61-0305 | Zinc | 30.2 | 2.1 |
| RB11-BG03-1315 | Zinc | 30.4 | 2 |
| RB11-58-1820 | Zinc | 30.7 | 2 |
| RB11-58-0305FD | Zinc | 31 | 2.1 |
| RB11-42-0810 | Zinc | 31.1 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-64-1315 | Zinc | 31.2 | 2.1 |
| RB11-46-0305 | Zinc | 31.6 | 2.1 |
| RB11-63-1315 | Zinc | 31.6 | 2.1 |
| RB11-40-0810 | Zinc | 31.7 | 2.1 |
| RB11-39-1315 | Zinc | 31.7 | 2 |
| RB11-57-2325 | Zinc | 31.8 | 2 |
| RB11-59-2325 | Zinc | 31.9 | 2 |
| RB11-BG06-0305FD | Zinc | 32.7 | 2.1 |
| RB11-40-0305 | Zinc | 32.9 | 2.1 |
| RB11-45-0810 | Zinc | 33 | 2.1 |
| RB11-BG05-1820 | Zinc | 33.1 | 2 |
| RB11-58-0305 | Zinc | 33.2 | 2.1 |
| RB11-55-1820 | Zinc | 33.5 | 2.2 |
| RB11-60-2830 | Zinc | 33.8 | 2.1 |
| RB11-50-2325 | Zinc | 33.9 | 2.1 |
| RB11-50-1820 | Zinc | 34 | 2.1 |
| RB11-44-0305FD | Zinc | 34.1 | 2.1 |
| RB11-BG05-0810 | Zinc | 34.1 | 2.2 |
| RB11-57-1315 | Zinc | 34.5 | 2 |
| RB11-40-1820 | Zinc | 34.5 | 2 |
| RB11-44-0305 | Zinc | 34.6 | 2 |
| RB11-42-1315 | Zinc | 34.8 | 2 |
| RB11-38-0305 | Zinc | 34.9 | 2.1 |
| RB11-39-0810 | Zinc | 35 | 2.1 |
| RB11-63-1820 | Zinc | 35.1 | 2.1 |
| RB11-51-0305 | Zinc | 35.3 | 2.1 |
| RB11-63-0810 | Zinc | 35.3 | 2.2 |
| RB11-53-1820 | Zinc | 35.3 | 2 |
| RB11-49-1820 | Zinc | 35.4 | 2.1 |
| RB11-37-1820 | Zinc | 35.8 | 2 |
| RB11-57-0305 | Zinc | 36 | 2.1 |
| RB11-41-0305 | Zinc | 36.1 | 2.1 |
| RB11-45-1820 | Zinc | 36.4 | 2 |
| RB11-52-1820 | Zinc | 36.6 | 2 |
| RB11-48-1820 | Zinc | 36.8 | 2.1 |
| RB11-BG04-1315 | Zinc | 37.1 | 2.1 |
| RB11-52-0305 | Zinc | 37.2 | 2.1 |
| RB11-43-2830 | Zinc | 37.5 | 2 |
| RB11-58-1315 | Zinc | 37.7 | 2 |
| RB11-BG05-0305 | Zinc | 38 | 2.1 |
| RB11-56-0810 | Zinc | 38.1 | 2.1 |
| RB11-37-0305 | Zinc | 38.2 | 2.1 |
| RB11-42-0305 | Zinc | 38.3 | 2.1 |
| RB11-61-2830 | Zinc | 38.6 | 2 |
| RB11-51-0810 | Zinc | 38.7 | 2.2 |
| RB11-57-1820 | Zinc | 38.7 | 2.1 |
| RB11-63-2325 | Zinc | 38.7 | 2 |
| RB11-51-0305FD | Zinc | 38.8 | 2.1 |
| RB11-64-1820 | Zinc | 38.8 | 2.1 |
| RB11-64-0810 | Zinc | 38.9 | 2.1 |
| RB11-49-0810 | Zinc | 39 | 2.1 |
| RB11-54-0810 | Zinc | 39.2 | 2.1 |
| RB11-BG06-0810 | Zinc | 39.4 | 2.1 |
| RB11-52-1315 | Zinc | 39.4 | 2.1 |
| RB11-46-0305FD | Zinc | 39.5 | 2.1 |
| RB11-64-0305FD | Zinc | 40 | 2.1 |
| RB11-60-0305 | Zinc | 40.1 | 2.1 |

Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-49-2325 | Zinc | 40.1 | 2 |
| RB11-62-0810 | Zinc | 40.2 | 2 |
| RB11-37-0810 | Zinc | 40.3 | 2.1 |
| RB11-54-0305 | Zinc | 40.4 | 2.1 |
| RB11-49-1315 | Zinc | 40.4 | 2.1 |
| RB11-43-1820 | Zinc | 40.5 | 2 |
| RB11-BG03-2830 | Zinc | 40.5 | 2.1 |
| RB11-55-0305 | Zinc | 40.8 | 2.1 |
| RB11-58-2830 | Zinc | 40.8 | 2 |
| RB11-53-1315 | Zinc | 41.1 | 2 |
| RB11-62-2325 | Zinc | 41.1 | 2 |
| RB11-46-2830 | Zinc | 41.1 | 2.2 |
| RB11-52-2830 | Zinc | 41.2 | 2.2 |
| RB11-BG06-2830 | Zinc | 41.4 | 2.2 |
| RB11-43-0305 | Zinc | 41.5 | 2.1 |
| RB11-44-0810 | Zinc | 41.5 | 2.1 |
| RB11-43-2325 | Zinc | 41.5 | 2 |
| RB11-58-2325 | Zinc | 41.8 | 2 |
| RB11-39-0305 | Zinc | 41.9 | 2.2 |
| RB11-48-0305FD | Zinc | 42.5 | 2.1 |
| RB11-BG04-0810 | Zinc | 42.6 | 2.1 |
| RB11-56-2830 | Zinc | 42.7 | 2.1 |
| RB11-45-1315 | Zinc | 42.8 | 2 |
| RB11-61-1820 | Zinc | 43.3 | 2 |
| RB11-BG04-0305 | Zinc | 43.4 | 2.1 |
| RB11-62-0305FD | Zinc | 43.5 | 2.1 |
| RB11-47-2325 | Zinc | 44 | 2.1 |
| RB11-44-1315 | Zinc | 44.4 | 2.1 |
| RB11-BG03-0305 | Zinc | 44.8 | 2.1 |
| RB11-60-2325 | Zinc | 44.8 | 2 |
| RB11-60-1315 | Zinc | 45 | 2 |
| RB11-BG05-2830 | Zinc | 45 | 2 |
| RB11-60-0810 | Zinc | 45.1 | 2.1 |
| RB11-41-1820 | Zinc | 45.2 | 2 |
| RB11-41-0810 | Zinc | 45.4 | 2.1 |
| RB11-43-0810 | Zinc | 45.4 | 2.1 |
| RB11-46-0810 | Zinc | 45.7 | 2.1 |
| RB11-53-2830 | Zinc | 46.4 | 2.2 |
| RB11-43-0305FD | Zinc | 46.6 | 2.1 |
| RB11-53-0305FD | Zinc | 46.8 | 2.1 |
| RB11-37-1315 | Zinc | 46.9 | 2.1 |
| RB11-50-0305 | Zinc | 47.2 | 2.1 |
| RB11-59-1315 | Zinc | 47.2 | 2 |
| RB11-44-2830 | Zinc | 47.7 | 2.1 |
| RB11-61-2325 | Zinc | 48.1 | 2 |
| RB11-56-1820 | Zinc | 49.2 | 2 |
| RB11-49-0305 | Zinc | 49.5 | 2.1 |
| RB11-61-1315 | Zinc | 49.5 | 2 |
| RB11-46-1820 | Zinc | 50.1 | 2 |
| RB11-45-2325 | Zinc | 50.9 | 2.2 |
| RB11-BG06-1315 | Zinc | 51.5 | 2.1 |
| RB11-59-0810 | Zinc | 51.8 | 2 |
| RB11-45-0305 | Zinc | 52.8 | 2.1 |
| RB11-63-0305 | Zinc | 53.1 | 2.2 |
| RB11-48-0810 | Zinc | 54.3 | 2.1 |
| RB11-58-0810 | Zinc | 54.3 | 2.1 |
| RB11-56-0305 | Zinc | 54.4 | 2.1 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-40-0305FD | Zinc | 55 | 2.1 |
| RB11-50-0810 | Zinc | 55.4 | 2.2 |
| RB11-49-0305FD | Zinc | 56.1 | 2.1 |
| RB11-60-0305FD | Zinc | 56.2 | 2.1 |
| RB11-63-2830 | Zinc | 56.7 | 2 |
| RB11-BG05-1315 | Zinc | 56.9 | 2 |
| RB11-38-0810 | Zinc | 57.1 | 2.1 |
| RB11-54-1820 | Zinc | 59.2 | 2 |
| RB11-54-0305FD | Zinc | 59.3 | 2.1 |
| RB11-64-0810FD | Zinc | 59.8 | 2.1 |
| RB11-40-1315 | Zinc | 59.9 | 2 |
| RB11-38-1820 | Zinc | 61.8 | 2.1 |
| RB11-47-0305 | Zinc | 63.7 | 2.1 |
| RB11-54-2830 | Zinc | 64.4 | 2 |
| RB11-42-1820 | Zinc | 64.5 | 2.1 |
| RB11-50-2830 | Zinc | 65.5 | 2.1 |
| RB11-59-2830 | Zinc | 65.5 | 2 |
| RB11-BG04-0305FD | Zinc | 65.9 | 2.2 |
| RB11-62-1315 | Zinc | 67 | 2 |
| RB11-BG04-1820 | Zinc | 67.2 | 2 |
| RB11-62-0305 | Zinc | 68.6 | 2.1 |
| RB11-56-2325 | Zinc | 69.4 | 2 |
| RB11-45-2830 | Zinc | 70.8 | 2.1 |
| RB11-41-1315 | Zinc | 74.6 | 2 |
| RB11-BG05-2325 | Zinc | 76.2 | 2.3 |
| RB11-52-0810 | Zinc | 76.4 | 2.1 |
| RB11-56-1315 | Zinc | 76.8 | 2 |
| RB11-55-1315 | Zinc | 78.9 | 2.1 |
| RB11-55-2325 | Zinc | 79 | 2.4 |
| RB11-44-2325 | Zinc | 81.4 | 2.2 |
| RB11-43-1315 | Zinc | 81.5 | 2.1 |
| RB11-50-1315 | Zinc | 83.4 | 2 |
| RB11-48-1315 | Zinc | 86.7 | 2 |
| RB11-57-2830 | Zinc | 93.4 | 2 |
| RB11-46-1315 | Zinc | 99.2 | 2 |
| RB11-59-1820 | Zinc | 103 | 2 |
| RB11-49-2830 | Zinc | 103 | 2.1 |
| RB11-44-1820 | Zinc | 104 | 2.1 |
| RB11-47-1820 | Zinc | 105 | 2 |
| RB11-47-2830 | Zinc | 105 | 2.1 |
| RB11-62-2830 | Zinc | 105 | 2 |
| RB11-47-0810 | Zinc | 106 | 2.2 |
| RB11-38-1315 | Zinc | 108 | 2.1 |
| RB11-62-1820 | Zinc | 109 | 2 |
| RB11-38-0305FD | Zinc | 115 | 2.1 |
| RB11-53-0305 | Zinc | 117 | 2.1 |
| RB11-55-0810 | Zinc | 117 | 2.1 |
| RB11-BG03-1820 | Zinc | 122 | 2 |
| RB11-57-0810 | Zinc | 124 | 2.1 |
| RB11-51-1315 | Zinc | 139 | 2.1 |
| RB11-56-0305FD | Zinc | 141 | 2.1 |
| RB11-48-0305 | Zinc | 160 | 2.1 |
| RB11-47-1315 | Zinc | 170 | 2 |
| RB11-39-1820 | Zinc | 174 | 2 |
| RB11-53-2325 | Zinc | 180 | 2 |
| RB11-51-2325 | Zinc | 224 | 2.1 |
| RB11-BG04-2830 | Zinc | 303 | 2 |

**Table 2-2. Reportable Analytical Data for SWMU 6-30 by Analyte (Continued)**

| Sample Number [a] | Analyte | Concentration (mg/kg) | Reporting Limit (mg/kg) |
|---|---|---|---|
| RB11-48-2325 | Zinc | 1100 | 2.1 |

[a] Sample number formats are the site (RB11)- the boring number (NN)-and the depth interval in feet that the sample was collected from. Samples with BG are background and samples with FD are duplicates.

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**Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location**

| Boring No. | 37 | | | | 38 | | | | | 39 | | | | 40 | | | | | 41 | | | | 42 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 3 to 5 | 3 to 5FD | 8 to10 | 13 to 15 | 18 to 20 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | 0.46 | 0.4 | ND | ND | ND | ND | ND | ND | ND | ND | 0.46 | ND | 1.3 | ND | ND | ND | ND | 100 | 0.54 | ND | 0.38 | ND | 2.1 | 0.36 | ND |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5 | ND | ND | ND | ND | ND | ND |
| Aluminum | ***8120*** | ***8620*** | 7370 | 5240 | ***8110*** | 6360 | 4170 | 6350 | ***8240*** | ***8070*** | 6630 | 4190 | 3790 | 7360 | ***13100*** | 6020 | 6920 | 4800 | 7290 | ***11500*** | 5560 | 5250 | ***11500*** | 7130 | ***8080*** | ***10800*** |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | 4.3 | 4.1 | 3.8 | 2.3 | 3.9 | 3.1 | 2.6 | 3.7 | 3 | 4.9 | 3.7 | 1 | 2.4 | 3.8 | 4.2 | 3.2 | 3.6 | 3.4 | 4.1 | 4.5 | 2.4 | ***1.8*** | 4.2 | 4 | 3.7 | 4.2 |
| Barium | 133 | 202 | 118 | 59 | 120 | 138 | 132 | 85.8 | 77 | 135 | 63.5 | 55.8 | 40.7 | 117 | 172 | 175 | 100 | 43.3 | 115 | 207 | 58 | 46.1 | 129 | 139 | 107 | 150 |
| Beryllium | ***0.38*** | ***0.42*** | ***0.33*** | ***ND*** | ***0.38*** | ***ND*** | ***ND*** | ***ND*** | ***0.37*** | ***0.41*** | ***0.34*** | ***ND*** | ***ND*** | ***0.44*** | ***0.73*** | ***0.43*** | ***0.44*** | ***0.4*** | ***0.49*** | ***0.62*** | ***0.39*** | ***0.33*** | ***0.57*** | ***0.42*** | ***0.48*** | ***0.53*** |
| Calcium | 27000 | 56800 | 30500 | 35500 | 33300 | 38400 | 151000 | 45500 | 28700 | 27600 | 36600 | 24100 | 31400 | 35100 | 22900 | 42700 | 39900 | 36700 | 24600 | 38800 | 27000 | 23600 | 25100 | 35900 | 36700 | 43100 |
| Chromium | 9.1 | 10.4 | 13.6 | 12.3 | 8.7 | 6.7 | 8.7 | 14.2 | 12.2 | 9.4 | 8.1 | 9.1 | 5.5 | 7.6 | 14.6 | 6.5 | 17.2 | 10.9 | 8.1 | 11.4 | 14.7 | 7.4 | 13.8 | 7.4 | 17.4 | 20.7 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 35.4 | 20.3 | 50.7 | 37.7 | 20.2 | 58 | 64.2 | 256 | 92.9 | 31.5 | 27.2 | 37.3 | ***442*** | 37.3 | 27 | 24.8 | 101 | 37.4 | 20.7 | 49 | 53.9 | 57 | 29.8 | 20.9 | 16.5 | 88.2 |
| Iron | ***11400*** | ***12000*** | ***14700*** | ***11400*** | ***11600*** | ***8520*** | ***7910*** | ***11800*** | ***12700*** | ***13400*** | ***9700*** | ***8470*** | ***6690*** | ***10500*** | ***16400*** | ***9160*** | ***13400*** | ***16300*** | ***11100*** | ***13800*** | ***13700*** | ***9620*** | ***14400*** | ***10400*** | ***18800*** | ***18300*** |
| Lead | 8.1 | 7.3 | 7.2 | 8 | 7.7 | 10.3 | 3.9 | 7.2 | 7.4 | 8.2 | 7.1 | 4.8 | 11.5 | 7 | 11 | 6 | 7.6 | 6.5 | 7.7 | 7.2 | 5.8 | 3.4 | 6.9 | 7.2 | 6.3 | 7.5 |
| Magnesium | 4730 | 5310 | 5030 | 3590 | 4260 | 4630 | 3120 | 4150 | 4050 | 4500 | 3850 | 3100 | 3190 | 3680 | 6550 | 4210 | 4570 | 3440 | 3930 | 4960 | 4320 | 4550 | 4770 | 4070 | 4840 | 5580 |
| Manganese | ***209*** | ***199*** | ***233*** | ***207*** | ***267*** | ***188*** | ***157*** | ***211*** | ***214*** | ***261*** | ***173*** | ***197*** | ***188*** | ***206*** | ***366*** | ***206*** | ***281*** | ***208*** | ***243*** | ***249*** | ***225*** | ***215*** | ***236*** | ***199*** | ***260*** | ***265*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 1440 | 960 | 1130 | 759 | 2720 | 5250 | 524 | 986 | 1360 | 1480 | 1250 | 612 | 561 | 1970 | 2100 | 1490 | 934 | 776 | 1990 | 2260 | 595 | 737 | 2160 | 1530 | 1330 | 1760 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 657 | 695 | 690 | 467 | 431 | 1010 | 362 | 471 | 796 | 399 | 406 | 233 | 311 | 191 | 649 | 720 | 629 | 324 | 181 | 223 | 258 | 295 | 221 | 240 | 242 | 304 |
| Thallium | 0.12 | ND | 0.13 | ND | 0.13 | ND | 0.1 | 0.1 | 0.12 | 0.16 | 0.11 | ND | ND | 0.12 | 0.12 | ND | ND | ND | 0.12 | 0.14 | ND | ND | 0.1 | 0.16 | 0.11 | 0.14 |
| Vanadium | 21.8 | 24.2 | 27.8 | 20.2 | 26 | 18.9 | 16.3 | 23.3 | 25.2 | 28.1 | 20.1 | 15.5 | 10.9 | 22.3 | 29.5 | 21.8 | 23.4 | 31.1 | 23.6 | 32.3 | 25.4 | 17.9 | 31.2 | 21.7 | 39.3 | 37.3 |
| Zinc | 38.2 | 40.3 | 46.9 | 35.8 | 34.9 | 115 | 57.1 | 108 | 61.8 | 41.9 | 35 | 31.7 | 174 | 32.9 | 55 | 31.7 | 59.9 | 34.5 | 36.1 | 45.4 | 74.6 | 45.2 | 38.3 | 31.1 | 34.8 | 64.5 |
| Cyanide | ND | ND | ND | ND | ND | 1.06 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)

| Boring No. | 43 | | | | | | | 44 | | | | | | | 45 | | | | | | 46 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 |
| Acetone | 11 | ND | 14 | 12 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | 5.2 | 0.51 | ND | 1 | ND | 1 | 0.57 | 2.3 | 0.74 | 0.9 | 0.51 | 0.88 | 0.4 | ND | ND | 1.1 | 2.1 | ND | 1 | ND | 0.5 | ND | 0.67 | ND | ND |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | ***9540*** | ***13200*** | ***8760*** | 7540 | 5520 | 4080 | 5280 | 5650 | 6110 | ***11200*** | 7260 | ***9210*** | ***10300*** | ***11100*** | ***8770*** | 5770 | 6280 | 4280 | ***8520*** | 3700 | 5300 | ***7720*** | 7490 | 5810 | 5240 | 3530 |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **3.9** | **4.6** | **2.2** | **3.3** | **3.3** | **2.4** | **2.1** | **5.2** | **2.2** | **2.8** | **3.7** | **2.7** | **5** | **4.4** | **3.6** | **2.8** | ***1.9*** | **2.6** | **4.4** | **2.8** | **4** | **3.9** | **3.6** | **3.8** | **2** | **3.2** |
| Barium | 123 | 132 | 62.8 | 85.6 | 80.2 | 44 | 66.8 | 117 | 197 | 210 | 213 | 75.1 | 194 | 146 | 91.4 | 98.6 | 58.8 | 56.2 | 168 | 212 | 60.7 | 154 | 230 | 102 | 48.5 | 64.8 |
| Beryllium | ***0.54*** | ***0.62*** | ***0.43*** | ***0.39*** | ***0.36*** | ***ND*** | ***0.39*** | ***0.37*** | ***0.35*** | ***0.49*** | ***0.43*** | ***0.5*** | ***0.55*** | ***0.58*** | ***0.49*** | ***0.32*** | ***0.38*** | ***0.33*** | ***0.55*** | ***0.39*** | ***0.44*** | ***0.46*** | ***0.39*** | ***0.41*** | ***0.34*** | ***ND*** |
| Calcium | 20400 | 18600 | 11600 | 27100 | 34400 | 35200 | 19600 | 24500 | 21700 | 19900 | 24100 | 35100 | 32400 | 20900 | 26500 | 14900 | 33400 | 31100 | 28900 | 43200 | 20500 | 23500 | 24300 | 26200 | 21300 | 29500 |
| Chromium | 13.9 | 11.5 | 16.3 | 18.7 | 8.7 | 12.9 | 8.7 | 6.7 | 12.4 | 19.6 | 16.2 | ***26.4*** | 11.6 | 15.5 | 10.2 | 10.5 | 12.2 | 9.7 | 10 | 6.4 | 6.1 | 9.9 | 13 | 19.8 | 12.2 | 6.1 |
| Cobalt | 7.8 | 7.9 | 7.8 | 7.3 | 9.5 | ND | ND | ND | ND | 8.9 | ND | 8.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 30.3 | 32.5 | 40.2 | 144 | 40.9 | 87.1 | 47.9 | 25.4 | 35.4 | 23.9 | 51.3 | 210 | 73.3 | 41.6 | 88.4 | 27.1 | 53 | 58.5 | 53.2 | 170 | 22.1 | 30.2 | 60.4 | 240 | 83.3 | 37.6 |
| Iron | ***11700*** | ***14300*** | ***13400*** | ***12400*** | ***12100*** | ***8130*** | ***9990*** | ***10500*** | ***11600*** | ***16500*** | ***12500*** | ***17500*** | ***12800*** | ***14900*** | ***12400*** | ***9690*** | ***11200*** | ***8330*** | ***10800*** | ***6640*** | ***9410*** | ***11600*** | ***12700*** | ***10200*** | ***11500*** | ***7440*** |
| Lead | 8 | 9.6 | 4.7 | ***46.7*** | 6 | 4.7 | 3.9 | 7.4 | 4.6 | 6 | 6.6 | 5.6 | 8.8 | 8.8 | 9.6 | 5.9 | 5.6 | 4.7 | 7 | 4.5 | 6.7 | 8 | 5.9 | 8.2 | 4.1 | 4.7 |
| Magnesium | 4520 | 5080 | 6340 | 5640 | 3910 | 2750 | 2860 | 4090 | 4340 | 6590 | 5200 | 4900 | 4300 | 3610 | 5160 | 5240 | 5030 | 3050 | 3540 | 3080 | 4200 | 5600 | 5900 | 4360 | 4490 | 2480 |
| Manganese | ***315*** | ***326*** | ***315*** | ***295*** | ***221*** | ***167*** | ***176*** | ***207*** | ***260*** | ***306*** | ***256*** | ***250*** | ***274*** | ***241*** | ***214*** | ***236*** | ***238*** | ***167*** | ***238*** | ***170*** | ***205*** | ***252*** | ***246*** | ***231*** | ***208*** | ***175*** |
| Nickel | ND | ND | 19.6 | 17.9 | ND | ND | ND | ND | ND | 20.2 | ND | 16.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 2800 | 3520 | 1490 | 1320 | 965 | 598 | 786 | 938 | 1040 | 1970 | 1160 | 1400 | 1380 | 1600 | 1280 | 1120 | 985 | 665 | 1050 | 769 | 8.4 | 1280 | 1460 | 1110 | 793 | ND |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 205 | 187 | 235 | 231 | 210 | 226 | 256 | 253 | 247 | 419 | 326 | 418 | 528 | 468 | 374 | 224 | 216 | 186 | 498 | 263 | 516 | 585 | 413 | 397 | 329 | 587 |
| Thallium | 0.16 | 0.23 | 0.17 | ND | ND | ND | ND | 0.12 | ND | 0.12 | 0.16 | 0.1 | 0.14 | 0.17 | 0.1 | 0.11 | ND | ND | 0.12 | ND | 0.12 | 0.1 | 0.16 | 0.12 | ND | 0.11 |
| Vanadium | 23.6 | 27.2 | 24.4 | 22.4 | 24.2 | 15.7 | 22.3 | 24.4 | 23.1 | 33.9 | 23 | 36.1 | 26.4 | 34.5 | 32.2 | 17.5 | 22 | 14.9 | 21.3 | 13.4 | 25.2 | 22.2 | 25.6 | 17.8 | 21.2 | 14.7 |
| Zinc | 41.5 | 46.6 | 45.4 | 81.5 | 40.5 | 41.5 | 37.5 | 34.6 | 34.1 | 41.5 | 44.4 | 104 | 81.4 | 47.7 | 52.8 | 33 | 42.8 | 36.4 | 50.9 | 70.8 | 31.6 | 39.5 | 45.7 | 99.2 | 50.1 | 29 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

**Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)**

| Boring No. | 47 | | | | | | | 48 | | | | | | | 49 | | | | | | | 50 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | 3.4 | 0.4 | ND | ND | ND | ND | ND | 0.37 | ND | 1.4 | ND | ND | ND | ND | ND | 1.9 | ND | ND | ND | ND | 1.7 | ND | ND | ND | 0.68 |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 6180 | ***12000*** | ***7990*** | ***9080*** | 4020 | ***8650*** | 6720 | ***9500*** | ***12900*** | ***8270*** | 5960 | 4270 | ***10700*** | 5300 | 5440 | ***12000*** | 6830 | 7230 | ***8940*** | 5660 | 5780 | 7470 | ***8350*** | 7160 | ***8150*** | 6420 |
| Antimony | 0.55 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **5.7** | **5.1** | **3.6** | **4.2** | **2.9** | **3.4** | **2.4** | **8.8** | **4.8** | **2.8** | **2.5** | **3.5** | **4** | **3.5** | **2.9** | **4.4** | **3** | **4.4** | **2.5** | **2** | **4** | **2.9** | **4.6** | **2.5** | **4.3** | **2.5** |
| Barium | 106 | 160 | 166 | 110 | 51 | 102 | 78.7 | 197 | 168 | 124 | 70.3 | 68.8 | 155 | 82 | 111 | 164 | 110 | 199 | 78 | 63.8 | 38 | 135 | 124 | 60.7 | 95 | 93.2 |
| Beryllium | ***0.44*** | ***0.71*** | ***0.5*** | ***0.48*** | ***ND*** | ***0.55*** | ***0.53*** | ***0.53*** | ***0.71*** | ***0.45*** | ***0.41*** | ***ND*** | ***0.55*** | ***ND*** | ***0.35*** | ***0.59*** | ***0.44*** | ***0.49*** | ***0.46*** | ***0.31*** | ***0.47*** | ***0.44*** | ***0.47*** | ***0.44*** | ***0.54*** | ***0.37*** |
| Calcium | 80300 | 20200 | 41300 | 32800 | 29800 | 13400 | 25600 | 39500 | 25800 | 48900 | 29100 | 135000 | 33700 | 20900 | 29900 | 34600 | 26600 | 31800 | 19800 | 22200 | 17500 | 31400 | 40200 | 20800 | 23600 | 25600 |
| Chromium | 6 | 11.5 | 11.9 | 13.6 | 5.8 | 12.6 | 18.9 | ***23.6*** | 11.5 | 9.2 | 16.4 | 9.2 | ***21.5*** | 7.1 | 7.9 | 13.5 | 7.5 | 8.3 | 18 | 13.1 | ***23.7*** | 9.9 | 8.6 | 19.9 | 8.4 | 11.4 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 36.8 | 96.6 | 181 | ***461*** | 261 | 27.3 | 230 | ***395*** | 36.6 | 42 | 208 | 56.5 | ***3020*** | 20.2 | 39.1 | 64.9 | 33.4 | 24.4 | 17.8 | 55.8 | 264 | 50.5 | 45.2 | 175 | 27.7 | 31.9 |
| Iron | ***8650*** | ***14200*** | ***13600*** | ***13900*** | ***7810*** | ***14000*** | ***18000*** | ***13800*** | ***15600*** | ***10700*** | ***14100*** | ***7010*** | ***14800*** | ***7500*** | ***8330*** | ***15000*** | ***10100*** | ***10900*** | ***15400*** | ***10500*** | ***38100*** | ***10800*** | ***12500*** | ***21100*** | ***9710*** | ***10900*** |
| Lead | 5.6 | 10.5 | 9.7 | 9 | 5.1 | 6.3 | 5.8 | 7.7 | 9.3 | 8.2 | 5.4 | 6.4 | 7.7 | 7.1 | 6 | 13.5 | 8.4 | 8.8 | 5.3 | 4.9 | 4.4 | 7.9 | 7.6 | 5.5 | 9.8 | 5.4 |
| Magnesium | 3510 | 5120 | 5270 | 5130 | 3560 | 4360 | 3660 | 5180 | 5370 | 4680 | 4650 | 3620 | 5200 | 2530 | 4220 | 5520 | 4220 | 4630 | 5590 | 4510 | 3600 | 4370 | 4650 | 4670 | 3630 | 3930 |
| Manganese | ***244*** | ***323*** | ***269*** | ***237*** | ***183*** | ***243*** | ***224*** | ***258*** | ***286*** | ***225*** | ***264*** | ***239*** | ***248*** | ***141*** | ***254*** | ***297*** | ***292*** | ***267*** | ***270*** | ***225*** | ***211*** | ***265*** | ***216*** | ***246*** | ***280*** | ***202*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | 22.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 858 | 2970 | 1800 | 1840 | 680 | 1720 | 1060 | 1560 | 2520 | 1790 | 1010 | 787 | 2160 | 1230 | 1450 | 3320 | 1880 | 1810 | 1750 | 1130 | 967 | 2020 | 1800 | 1270 | 1220 | 1400 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | 0.54 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 974 | 263 | 243 | 222 | 246 | 478 | 341 | 243 | 260 | 639 | 228 | 225 | 339 | 181 | 178 | 216 | 263 | 258 | 277 | 232 | 335 | 202 | 225 | 245 | 473 | 209 |
| Thallium | 0.11 | 0.23 | 0.12 | 0.11 | ND | ND | ND | 0.12 | 0.18 | ND | ND | ND | 0.1 | ND | ND | 0.11 | 0.1 | 0.15 | ND | ND | ND | ND | ND | ND | 0.15 | ND |
| Vanadium | 20.5 | 28.1 | 26 | 28.4 | 13.7 | 26.5 | 35.8 | 27.5 | 31.8 | 19.8 | 25.7 | 14 | 30.3 | 16.1 | 17.4 | 30.6 | 20.3 | 22.7 | 31.3 | 20.3 | ***81.4*** | 20.9 | 29.6 | 44.1 | 17.2 | 20.9 |
| Zinc | 41.1 | 63.7 | 106 | 170 | 105 | 44 | 105 | 160 | 42.5 | 54.3 | 86.7 | 36.8 | ***1100*** | 21.1 | 49.5 | 56.1 | 39 | 40.4 | 35.4 | 40.1 | 103 | 47.2 | 55.4 | 83.4 | 34 | 33.9 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.73 | ND | 1.05 | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

**Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)**

| Boring No. | | 51 | | | | | | | 52 | | | | | | 53 | | | | | | | 54 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.39 | 0.46 | ND | ND | ND | ND | 5.8 | 0.35 | 1.2 | 0.41 | 0.37 | ND | 0.39 | ND |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | ***8750*** | 6820 | ***8000*** | ***9880*** | ***8610*** | 6090 | 4260 | ***9640*** | 6120 | 3900 | ***8800*** | 4050 | 3730 | ***8750*** | ***11200*** | ***9550*** | ***8160*** | 5360 | 6130 | 5370 | ***9630*** | ***10300*** | ***11100*** | ***9850*** | 5250 | 5350 |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **2.6** | **3.3** | **4** | **4.1** | **3.9** | **3.3** | **2.7** | **3.6** | **3** | ***1.7*** | **3.6** | **3.2** | ***1.8*** | **3.8** | **4.1** | **3.5** | **4.5** | ***1.7*** | **2** | ***1.9*** | **5.1** | **3.7** | **4.4** | **3.8** | **2.5** | ***1.7*** |
| Barium | 90.5 | 77.6 | 153 | 180 | 138 | 54.9 | 33.2 | 74.8 | 116 | 47 | 145 | 40.6 | 33.7 | 108 | 292 | 144 | 173 | 49.6 | 41 | 53 | 179 | 152 | 163 | 153 | 53.7 | 62.2 |
| Beryllium | ***0.47*** | ***0.42*** | ***0.5*** | ***0.54*** | ***0.48*** | ***0.39*** | ***0.35*** | ***0.53*** | ***0.41*** | ***ND*** | ***0.47*** | ***ND*** | ***ND*** | ***0.52*** | ***0.52*** | ***0.42*** | ***0.39*** | ***ND*** | ***0.34*** | ***0.36*** | ***0.65*** | ***0.5*** | ***0.51*** | ***0.47*** | ***ND*** | ***0.35*** |
| Calcium | 33600 | 49900 | 44700 | 31500 | 41200 | 29600 | 36900 | 21400 | 47000 | 26200 | 38100 | 36500 | 36800 | 23700 | 46800 | 39700 | 61300 | 17000 | 32000 | 25100 | 45800 | 48400 | 41900 | 33100 | 31700 | 34300 |
| Chromium | 15.5 | 10 | 7.7 | 16.7 | 11.5 | 7.9 | 10 | 11.8 | 6.5 | 6.6 | 8.8 | 6.1 | 7 | 9.1 | 16.7 | 12.3 | 10.6 | 10.8 | 12.7 | 9.4 | 9.7 | 11.2 | 15.3 | 13 | 10.5 | 8 |
| Cobalt | ND | ND | ND | 8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 109 | 39.9 | 31.2 | 18.6 | 42.9 | 11.5 | ***531*** | 11.5 | 14.6 | 177 | 24.1 | 50.2 | 30.4 | 39 | 277 | 33.3 | 18.4 | 51.5 | 32 | ***431*** | 50.9 | 41.8 | 85.2 | 33.1 | 33.3 | 102 |
| Iron | ***14500*** | ***11900*** | ***10800*** | ***15500*** | ***12700*** | ***10200*** | ***11400*** | ***12900*** | ***8300*** | ***7130*** | ***13000*** | ***7590*** | ***6700*** | ***11300*** | ***13800*** | ***13400*** | ***11200*** | ***12200*** | ***12800*** | ***9550*** | ***11700*** | ***13200*** | ***14700*** | ***12900*** | ***11100*** | ***11200*** |
| Lead | 5.5 | 7 | 6.3 | 7.9 | 9.3 | 5.7 | 5.9 | 4.7 | 6 | 4.2 | 6.5 | 4.5 | 3 | 6.3 | 6.1 | 4.9 | 5.5 | 3.9 | 4.2 | 4.2 | 6.3 | 7.1 | 8.2 | 7.3 | 6.5 | 3.7 |
| Magnesium | 4550 | 4460 | 4310 | 6040 | 4590 | 3610 | 2740 | 4160 | 4230 | 3060 | 4700 | 3510 | 2660 | 3780 | 4870 | 4810 | 4900 | 3890 | 4540 | 3900 | 4300 | 5100 | 5320 | 5100 | 3530 | 4240 |
| Manganese | ***252*** | ***235*** | ***249*** | ***313*** | ***243*** | ***184*** | ***204*** | ***217*** | ***194*** | ***159*** | ***241*** | ***180*** | ***140*** | ***209*** | ***225*** | ***178*** | ***158*** | ***197*** | ***241*** | ***199*** | ***220*** | ***237*** | ***249*** | ***236*** | ***180*** | ***240*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 1760 | 1150 | 1600 | 1930 | 1700 | 1370 | 610 | 1690 | 1310 | ND | 1620 | 640 | ND | 1570 | 1750 | 1650 | 1310 | 856 | 858 | 890 | 1670 | 1880 | 2070 | 1800 | 937 | 882 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 262 | 304 | 416 | 314 | 319 | 400 | 238 | 455 | 263 | 197 | 293 | 207 | 201 | 525 | 456 | 331 | 339 | 202 | 227 | 292 | 579 | 409 | 323 | 374 | 195 | 208 |
| Thallium | ND | ND | ND | 0.14 | ND | ND | ND | ND | 0.11 | ND | ND | ND | ND | ND | 0.15 | 0.15 | 0.2 | 0.12 | 0.13 | ND | 0.17 | 0.19 | 0.19 | 0.18 | ND | ND |
| Vanadium | 29.5 | 23.9 | 21.1 | 30.6 | 24.2 | 20 | 23.3 | 30.4 | 17.3 | 12.2 | 26.4 | 13.1 | 12.6 | 24.1 | 28.3 | 31 | 30.2 | 22.5 | 23.3 | 17.5 | 21.6 | 27.8 | 31.4 | 28.4 | 21.9 | 20.4 |
| Zinc | 65.5 | 35.3 | 38.8 | 38.7 | 139 | 27.1 | 224 | 29.7 | 37.2 | 76.4 | 39.4 | 36.6 | 27.3 | 41.2 | 117 | 46.8 | 28.6 | 41.1 | 35.3 | 180 | 46.4 | 40.4 | 59.3 | 39.2 | 29.6 | 59.2 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.52 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)

| Boring No. | | | 55 | | | | | | 56 | | | | | | | 57 | | | | | | 58 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | ND | ND | 1.6 | ND | ND | ND | ND | 0.44 | ND | ND | 5.8 | ND | ND | ND | ND | ND | ND | ND | ND | 0.34 | 5.8 | 0.82 | ND | 0.98 | ND |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 4770 | ***9910*** | ***9700*** | ***11200*** | 7310 | ***8830*** | ***11300*** | 6800 | 5940 | 7390 | ***11100*** | 7490 | ***11300*** | 7170 | ***8560*** | ***9760*** | 5040 | 5620 | 4950 | 3290 | 5040 | ***8940*** | ***8270*** | 5350 | 7520 | 4160 |
| Antimony | 0.57 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | ***1.9*** | 3.1 | 3.3 | 3.8 | ***1.9*** | 2.9 | 5.3 | 3 | 3 | 3.7 | 3.3 | 2.6 | 2.6 | 2.7 | 3.1 | 3.9 | 2.7 | 2.6 | 3.5 | ***1.1*** | 2 | 4.3 | 3.7 | 2.3 | 2.4 | 2.5 |
| Barium | 28.9 | 158 | 165 | 133 | 32.6 | 69.7 | 79.4 | 75 | 146 | 132 | 204 | 93.3 | 205 | 135 | 117 | 156 | 89.7 | 57.2 | 126 | 23.1 | 32.1 | 156 | 113 | 137 | 69.9 | 57.2 |
| Beryllium | ***0.33*** | ***0.48*** | ***0.52*** | ***0.58*** | ***ND*** | ***0.5*** | ***0.66*** | ***0.49*** | ***0.4*** | ***0.44*** | ***0.55*** | ***0.41*** | ***0.6*** | ***0.4*** | ***0.46*** | ***0.47*** | ***ND*** | ***0.32*** | ***ND*** | ***ND*** | ***0.32*** | ***0.55*** | ***0.54*** | ***ND*** | ***0.35*** | ***ND*** |
| Calcium | 38200 | 33600 | 24300 | 28800 | 26600 | 30200 | 44500 | 22500 | 34800 | 31900 | 47900 | 23500 | 21800 | 30500 | 35000 | 21700 | 28400 | 25500 | 32300 | 58800 | 33500 | 45000 | 52500 | 51700 | 21200 | 43400 |
| Chromium | 7.4 | 15.6 | 12.1 | 14.8 | 9.2 | 12.6 | 18.9 | 8.6 | 7.9 | 9.7 | 13.1 | 16.4 | 19.2 | 14.9 | 15.4 | 12.4 | 9.1 | 7.3 | 7.4 | 4.7 | 14.2 | 8.7 | 7.3 | 11.8 | 19 | 5.4 |
| Cobalt | ND | ND | ND | ND | 9.5 | ND | ND | ND | ND | ND | ND | ND | 7.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 16.3 | 116 | 43.1 | 213 | 115 | 20.8 | 85.1 | 12.6 | 47.2 | 184 | 40.9 | 135 | 34.4 | 160 | 47.2 | 25.8 | 259 | 47.3 | 55.5 | 55.5 | 213 | 18.1 | 20.4 | 105 | 35.2 | 20.2 |
| Iron | ***8550*** | ***12900*** | ***14700*** | ***14700*** | ***14400*** | ***13400*** | ***14600*** | ***11500*** | ***10200*** | ***11500*** | ***12700*** | ***13900*** | ***18400*** | ***11800*** | ***14300*** | ***14200*** | ***8670*** | ***9000*** | ***7970*** | ***5730*** | ***13400*** | ***11400*** | ***10300*** | ***10400*** | ***13600*** | ***7160*** |
| Lead | 3.5 | 10.1 | 6.9 | 9.1 | 4.2 | 5.6 | 37 | 5.1 | 6 | 6.9 | 6.7 | 6.5 | 5.7 | 5.9 | 6.3 | 7.2 | 4.9 | 4.7 | 6.3 | 2.6 | 4.9 | 8.3 | 7.3 | 4.8 | 4.8 | 5.2 |
| Magnesium | 2750 | 4950 | 4880 | 5080 | 6930 | 3950 | 5030 | 3550 | 4430 | 5010 | 5000 | 5670 | 6930 | 4940 | 5010 | 4210 | 3830 | 3480 | 4130 | 2550 | 3800 | 4900 | 4270 | 3960 | 5730 | 3430 |
| Manganese | ***157*** | ***258*** | ***262*** | ***213*** | ***298*** | ***235*** | ***367*** | ***233*** | ***231*** | ***228*** | ***224*** | ***253*** | ***328*** | ***283*** | ***241*** | ***212*** | ***186*** | ***188*** | ***189*** | ***157*** | ***130*** | ***259*** | ***230*** | ***218*** | ***212*** | ***189*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.3 | 15.3 | 16.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 16.6 | ND |
| Potassium | 774 | 2590 | 1790 | 2100 | ND | 1380 | 1760 | 1090 | 1080 | 1140 | 2120 | 1300 | 2100 | 1370 | 1520 | 1510 | 1040 | 961 | 1000 | 529 | 738 | 1600 | 1480 | 784 | 1060 | 786 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 242 | 267 | 284 | 292 | 223 | 530 | 723 | 551 | 464 | 504 | 419 | 453 | 506 | 415 | 473 | 466 | 216 | 295 | 472 | 270 | 310 | 492 | 511 | 327 | 409 | 302 |
| Thallium | ND | 0.13 | 0.15 | 0.16 | ND | 0.16 | 0.58 | 0.11 | 0.11 | 0.17 | 0.16 | 0.18 | 0.22 | 0.18 | 0.47 | 0.18 | ND | 0.1 | 0.18 | ND | ND | 0.19 | 0.17 | ND | 0.14 | 0.14 |
| Vanadium | 17.7 | 24.9 | 33 | 30.4 | 21.3 | 28.7 | 26.3 | 22.8 | 30 | 33.7 | 28 | 26.5 | 37.4 | 22.7 | 30 | 27.2 | 18.6 | 19.8 | 15.2 | 10.7 | 26.2 | 21.1 | 19.4 | 18.8 | 26.8 | 12.2 |
| Zinc | 22.8 | 64.4 | 40.8 | 117 | 78.9 | 33.5 | 79 | 27.2 | 54.4 | 141 | 38.1 | 76.8 | 49.2 | 69.4 | 42.7 | 36 | 124 | 34.5 | 38.7 | 31.8 | 93.4 | 33.2 | 31 | 54.3 | 37.7 | 30.7 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

**Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)**

| Boring No. | | | 59 | | | | | | 60 | | | | | | | 61 | | | | | | 62 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | ND | ND | ND | 11 | 0.5 | ND | ND | ND | ND | ND | 0.55 | ND | ND | 0.94 | ND | ND | ND | ND | ND | ND | ND | 0.49 | 0.56 | ND | ND | 0.23 |
| Phenol | ND | ND | ND | 340 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 4250 | 5920 | ***8040*** | 4910 | 6140 | ***8150*** | 3560 | 5450 | ***7860*** | 6810 | ***7940*** | 5670 | 3190 | 7050 | 5730 | ***7860*** | 6360 | 6420 | 5510 | 5410 | 5550 | ***12700*** | ***11700*** | 4130 | ***10600*** | 3890 |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **2.3** | **2** | **5.4** | **4.5** | **5.8** | **5.5** | ***1.8*** | **4.1** | **12.3** | **8** | **14.7** | **4** | **3.8** | **3.8** | **12.4** | **10.1** | **13.5** | **4.7** | **2.3** | **3.7** | **4.1** | **4.4** | **4.3** | ***1.9*** | **2.6** | ***1.9*** |
| Barium | 33.7 | 45.6 | 115 | 50.7 | 88.3 | 125 | 25.7 | 333 | 231 | 198 | 121 | 63.4 | 35.3 | 187 | 67 | 113 | 110 | 55.3 | 24.6 | 53.6 | 46.7 | 220 | 201 | 71.9 | 74 | 117 |
| Beryllium | ***ND*** | ***0.39*** | ***0.4*** | ***0.37*** | ***0.43*** | ***0.42*** | ***ND*** | ***0.37*** | ***0.4*** | ***0.44*** | ***0.45*** | ***0.34*** | ***ND*** | ***0.4*** | ***0.41*** | ***0.4*** | ***0.47*** | ***0.36*** | ***ND*** | ***0.42*** | ***0.32*** | ***0.61*** | ***0.62*** | ***ND*** | ***ND*** | ***ND*** |
| Calcium | 34500 | 33600 | 74800 | 36600 | 45900 | 26500 | 30700 | 38700 | 45500 | 35300 | 58500 | 22800 | 81000 | 57400 | 35100 | 66900 | 30600 | 13600 | 22000 | 19600 | 25100 | 28000 | 29000 | 71100 | 5060 | 52300 |
| Chromium | 7.2 | 9.9 | 7.5 | 9.8 | 9.1 | 16.3 | 5.9 | 5.7 | 9.3 | 7.8 | 11.4 | 15.6 | 3.4 | 13.6 | 6.5 | 7.6 | 8.4 | 8.8 | ***29.7*** | 7.6 | 14.5 | 12.1 | 12.4 | 5.9 | ***43*** | 5.6 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 9.3 | ND |
| Copper | 79.1 | 50.9 | 34.9 | 87.4 | 70 | 242 | 51.9 | 102 | 46.2 | 91 | 64.5 | 64.7 | 27.3 | 39.1 | 25.7 | 28.8 | 20.2 | 67.5 | 87.5 | 81.4 | 67 | 113 | 42.6 | 60.2 | 45.9 | ***296*** |
| Iron | ***8580*** | ***15800*** | ***9490*** | ***11600*** | ***11800*** | ***14400*** | ***7280*** | ***10800*** | ***13000*** | ***10500*** | ***12700*** | ***12200*** | ***5549*** | ***13400*** | ***9050*** | ***10200*** | ***9600*** | ***12500*** | ***11500*** | ***11100*** | ***10800*** | ***14500*** | ***14500*** | ***8920*** | ***17100*** | ***7130*** |
| Lead | 3.5 | 4.9 | 8.3 | 4.9 | 7.1 | 10.4 | 3.4 | 6.7 | 6.5 | 6.9 | 8.6 | 4.7 | 4.2 | 7.4 | 5.5 | 8.7 | 7.5 | 6.2 | 3.4 | 5.5 | 4.8 | 8.3 | 8.3 | 2.9 | 1.7 | 3.5 |
| Magnesium | 3120 | 3780 | 4220 | 3360 | 4290 | 5140 | 2460 | 4670 | 5080 | 4230 | 5010 | 4650 | 2840 | 4130 | 3210 | 3580 | 4330 | 4790 | 4710 | 3800 | 3570 | 5100 | 5580 | 2940 | 10600 | 2800 |
| Manganese | ***181*** | ***235*** | ***130*** | ***222*** | ***230*** | ***274*** | ***152*** | ***241*** | ***221*** | ***205*** | ***223*** | ***234*** | ***196*** | ***343*** | ***160*** | ***135*** | ***211*** | ***250*** | ***186*** | ***206*** | ***194*** | ***260*** | ***291*** | ***153*** | ***418*** | ***225*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 19.9 | ND | ND | ND | ND | 18.8 | ND | ND | ND | ND | ND | 28 | ND |
| Potassium | 623 | 1470 | 1090 | 805 | 927 | 1680 | 583 | 864 | 1290 | 1150 | 1020 | 940 | 610 | 795 | 1140 | 1270 | 1050 | 1360 | 617 | 812 | 975 | 2090 | 1930 | 567 | 3170 | 658 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 273 | 315 | 386 | 266 | 384 | 344 | 312 | 412 | 343 | 277 | 440 | 307 | 331 | 374 | 490 | 489 | 520 | 390 | 291 | 330 | 385 | 496 | 548 | 225 | 1020 | 316 |
| Thallium | ND | 0.12 | ND | 0.1 | ND | 0.19 | ND | ND | 0.13 | 0.14 | 0.13 | ND | ND | ND | 0.11 | 0.12 | 0.17 | 0.16 | ND | ND | ND | 0.19 | 0.17 | ND | 0.18 | 0.12 |
| Vanadium | 16.1 | 29.6 | 20.7 | 23 | 21.4 | 28.4 | 13 | 22.5 | 29.5 | 21.9 | 26.2 | 21.4 | 9.7 | 21.2 | 19.2 | 21.7 | 19.2 | 21.6 | 18.2 | 20.7 | 20.8 | 28.5 | 28.1 | 17.5 | 37.6 | 12.9 |
| Zinc | 41.8 | 40.8 | 28 | 51.8 | 47.2 | 103 | 31.9 | 65.5 | 40.1 | 56.2 | 45.1 | 45 | 28.3 | 44.8 | 33.8 | 30.2 | 29.8 | 49.5 | 43.3 | 48.1 | 38.6 | 68.6 | 43.5 | 40.2 | 67 | 109 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**Notes:**

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

**Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)**

| Boring No. | | | 63 | | | | | | 64 | | | | | | | Background 03 | | | | | | Background 04 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 8 to 10FD | 13 to 15 | 18 to 20 | 23 to 25 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 12 | 13 | ND | 11 | ND | ND | 14 | ND | ND | ND | ND |
| Bis(2-ethylhexyl) | 0.54 | 0.4 | 0.97 | 0.78 | ND | ND | 0.37 | ND | ND | 0.4 | ND | 0.87 | ND | 0.81 | 0.42 | 0.43 | 0.57 | 0.37 | ND | 0.5 | ND | ND | 2.2 | 0.55 | ND | ND |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 490 |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 7390 | 3700 | ***8930*** | 7280 | 4380 | 4480 | 3130 | ***17000*** | ***8990*** | ***10400*** | ***9100*** | ***7760*** | 3780 | 7540 | 4460 | ***18400*** | ***8090*** | 4850 | 6070 | 5600 | ***8700*** | ***12700*** | ***12600*** | ***11200*** | 5190 | 3560 |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **4.4** | **3.1** | **5** | **3.2** | **4.2** | **2.3** | **2** | **4.3** | **4.4** | **4.3** | **6.9** | **3.7** | ***1.9*** | **2.9** | **2.1** | **4.9** | **4.7** | **2.6** | **2.7** | **4.3** | **2.9** | **3.6** | **3.6** | **4.6** | ***1.4*** | ***1.7*** |
| Barium | 61 | 41.1 | 315 | 67.1 | 112 | 29.7 | 18.1 | 55.5 | 438 | 115 | 90.8 | 125 | 39.8 | 68.4 | 22 | 90.3 | 138 | 67.3 | 43.7 | 89.5 | 131 | 216 | 164 | 204 | 55.5 | 21.1 |
| Beryllium | ***0.43*** | ***ND*** | ***0.48*** | ***0.4*** | ***ND*** | ***ND*** | ***ND*** | ***0.86*** | ***0.35*** | ***0.48*** | ***0.54*** | ***0.35*** | ***ND*** | ***0.39*** | ***ND*** | ***0.87*** | ***0.44*** | ***ND*** | ***ND*** | ***ND*** | ***0.54*** | ***0.73*** | ***0.69*** | ***0.66*** | ***0.38*** | ***ND*** |
| Calcium | 82600 | 52200 | 53400 | 25500 | 40600 | 24700 | 34300 | 48100 | 168000 | 24600 | 30100 | 51200 | 18700 | 29900 | 68200 | 32900 | 56300 | 26800 | 18700 | 17600 | 72900 | 27300 | 36200 | 56900 | 29100 | 34800 |
| Chromium | 7.9 | 6.7 | 9 | 10.6 | 7.5 | 8.9 | 8.1 | 14.2 | 7.4 | 10.5 | 14.5 | 20.4 | 4.9 | 11.7 | 4.1 | 16.4 | 9.1 | 7.4 | 15.3 | 7.5 | 9.3 | 13.4 | 15 | 13.3 | 12.5 | 6.3 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 62 | 251 | 77.8 | 27.3 | 28.3 | 35 | 22.8 | 79.2 | 43.6 | 34.8 | 26.2 | 142 | 35.9 | 32.3 | 33 | 21.9 | 13.8 | 27.9 | ***307*** | 10.7 | 30.8 | 30 | 48.5 | 39.1 | 42.1 | 165 |
| Iron | ***9460*** | ***5910*** | ***10900*** | ***12200*** | ***7730*** | ***7740*** | ***7730*** | ***15000*** | ***8940*** | ***12700*** | ***13800*** | ***14100*** | ***7320*** | ***14700*** | ***7880*** | ***17000*** | ***10700*** | ***9550*** | ***10100*** | ***9780*** | ***11500*** | ***15300*** | ***15800*** | ***13800*** | ***13900*** | ***7790*** |
| Lead | 5 | 4.5 | 8.5 | 5 | 6.3 | 3.9 | 3.5 | 7.9 | 4.8 | 8.6 | 18.2 | 15.8 | 3.1 | 5.7 | 3 | 8.8 | 5.7 | 5.3 | 3.9 | 6.2 | 4.8 | 10.6 | 7.4 | 8.1 | 5.8 | 3.8 |
| Magnesium | 3620 | 2850 | 4900 | 4620 | 3780 | 3580 | 2340 | 5570 | 6060 | 4130 | 5940 | 5500 | 3440 | 4810 | 2670 | 5600 | 4560 | 3410 | 4010 | 3740 | 3720 | 6590 | 5640 | 5730 | 3950 | 2470 |
| Manganese | ***326*** | ***155*** | ***231*** | ***206*** | ***198*** | ***176*** | ***166*** | ***241*** | ***123*** | ***306*** | ***258*** | ***180*** | ***189*** | ***238*** | ***157*** | ***274*** | ***199*** | ***214*** | ***201*** | ***234*** | ***211*** | ***327*** | ***262*** | ***220*** | ***213*** | ***142*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.6 | ND | ND | ND | ND | ND | ND | ND |
| Potassium | 1260 | 702 | 1390 | 941 | 726 | 714 | ND | 2690 | 1070 | 2780 | 1080 | 859 | 726 | 1140 | 671 | 3040 | 1220 | 966 | 1080 | 1180 | 1480 | 1780 | 2180 | 1230 | 922 | ND |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 387 | 253 | 211 | 227 | 199 | 255 | 204 | 576 | 323 | 200 | 486 | 411 | 247 | 422 | 285 | 736 | 505 | 266 | 246 | 253 | 308 | 236 | 242 | 434 | 255 | 235 |
| Thallium | 0.12 | 0.12 | 0.18 | 0.14 | ND | 0.11 | ND | 0.14 | ND | 0.22 | 0.16 | ND | ND | ND | ND | 0.15 | 0.14 | ND | ND | 0.15 | ND | 0.18 | 0.13 | ND | ND | ND |
| Vanadium | 19.5 | 10.9 | 21.6 | 27.9 | 13.4 | 13.7 | 13.7 | 29 | 24.5 | 24.1 | 25.8 | 30.6 | 12.3 | 28.5 | 14.3 | 33 | 21.5 | 17.2 | 19.3 | 18.9 | 25.3 | 27.5 | 33.1 | 28.9 | 26.8 | 15.3 |
| Zinc | 41.1 | 105 | 53.1 | 35.3 | 31.6 | 35.1 | 38.7 | 56.7 | 27.1 | 40 | 38.9 | 59.8 | 31.2 | 38.8 | 27 | 44.8 | 30 | 30.4 | 122 | 27.9 | 40.5 | 43.4 | 65.9 | 42.6 | 37.1 | 67.2 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

Table 2-3. Reportable Analytical Data for SWMU 6-30 by Sample Location (Continued)

| Boring No. | | | Background 05 | | | | | | Background 06 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Interval (ft) | 23 to 25 | 28 to 30 | 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | 3 to 5 | 3 to 5FD | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 |
| Acetone | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 11 | ND | ND | ND | 13 |
| Bis(2-ethylhexyl) | 0.52 | ND | 0.36 | ND | 0.64 | 0.36 | ND | 0.48 | 0.38 | ND | ND | 0.63 | 17 | 0.74 | 1.2 |
| Phenol | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 2950 | 4700 | ***10400*** | 4150 | 5740 | 4560 | ***8830*** | 4380 | 4390 | ***9580*** | ***10300*** | 6590 | 4570 | 3500 | 3650 |
| Antimony | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | **2.3** | **3.7** | **6.1** | **4.1** | **2.6** | **2.8** | **3.7** | **4.8** | **3.5** | **5.2** | **6.3** | **2.5** | ***1.5*** | **2.1** | **2.9** |
| Barium | 26 | 61.8 | 223 | 110 | 52.5 | 35.3 | 64.9 | 107 | 147 | 144 | 88.7 | 72.2 | 29.2 | 39.3 | 27.2 |
| Beryllium | ***0.33*** | ***0.36*** | ***0.56*** | ***ND*** | ***0.34*** | ***ND*** | ***0.49*** | ***0.46*** | ***0.4*** | ***ND*** | ***0.52*** | ***ND*** | ***ND*** | ***ND*** | ***ND*** |
| Calcium | 37700 | 53100 | 29600 | 66800 | 34600 | 33100 | 23500 | 41600 | 143000 | 68300 | 30400 | 12500 | 27700 | 49600 | 28000 |
| Chromium | 5.3 | 7.5 | 11.4 | 6.6 | 10.8 | 7.5 | 11 | 8 | 7.4 | 9.7 | 12.6 | 13.3 | 9.1 | 4.8 | 5 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 15.7 | ***813*** | 21.9 | 51.7 | 72 | 30.3 | 64.3 | 72.5 | 32.2 | 23.8 | 25.5 | 61.8 | 24.1 | 16.3 | 84.6 |
| Iron | ***6130*** | ***9090*** | ***14000*** | ***9130*** | ***13100*** | ***8280*** | ***11800*** | ***7510*** | ***6270*** | ***11200*** | ***14400*** | ***11800*** | ***8790*** | ***8140*** | ***6600*** |
| Lead | 3.9 | 4.2 | 7.8 | 5.4 | 4.1 | 6.4 | 7 | 5.9 | 2.9 | 5.1 | 7.2 | 5 | 3.1 | 3.2 | 4.4 |
| Magnesium | 2050 | 3150 | 6220 | 2940 | 4450 | 3870 | 3690 | 2890 | 3240 | 4840 | 5680 | 6100 | 3720 | 2450 | 2840 |
| Manganese | ***175*** | ***192*** | ***281*** | ***199*** | ***241*** | ***212*** | ***241*** | ***170*** | ***75.3*** | ***160*** | ***262*** | ***265*** | ***178*** | ***194*** | ***177*** |
| Nickel | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Potassium | ND | 697 | 1420 | 656 | 849 | 785 | 1240 | 1030 | 770 | 1690 | 2140 | 1150 | 817 | 604 | 737 |
| Selenium | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Sodium | 364 | 325 | 428 | 179 | 271 | 337 | 862 | 561 | 571 | 544 | 516 | 274 | 254 | 185 | 190 |
| Thallium | ND | ND | 0.12 | ND | ND | ND | 0.13 | ND | ND | ND | 0.15 | 0.12 | ND | ND | ND |
| Vanadium | 11.3 | 16.1 | 33.2 | 20.8 | 22.2 | 14.9 | 23.3 | 14.2 | 13.9 | 27 | 33.5 | 20.7 | 15.4 | 13.9 | 12.1 |
| Zinc | 22.2 | 303 | 38 | 34.1 | 56.9 | 33.1 | 76.2 | 45 | 24.9 | 32.7 | 39.4 | 51.5 | 29.8 | 20.4 | 41.4 |
| Cyanide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.67 | ND | ND | ND |

Notes:

[a] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 residential screening level are shown in **bold** and *italics*.

[b] Analyte concentrations that exceed the adjusted and/or unadjusted EPA Region 6 industrial screening level are shown in **bold** and shaded.

### 2.3.1 Nonradioactive Compounds of Concern

The nonradioactive compound data collected during this investigation included VOCs, SVOCs, metals, mercury, cyanide, soil moisture, and soil pH. Detected compound concentrations were compared to EPA Region 6 HHRB Media-Specific Screening Levels. A complete listing of the EPA Region 6 HHRB Media-Specific Screening Levels is presented in Appendix J.

#### *2.3.1.1 Comparison to HHRB Screening Levels*

The maximum reported value for each of the analytes of concern was compared to the EPA Region 6 HHRB screening levels. As discussed in Section 1, the screening values were lowered to 10 percent of the actual screening level value for noncarcinogens to account for possible additive effects related to exposure to multiple contaminants. Table 2-4 presents the maximum values and screening levels for the analytes of concern.

Four organic compounds were detected at concentrations above the method detection levels. These were acetone (12 detects of 197 samples), bis(2-ethylhexyl)phthalate (80 detects of 197 samples), phenol (2 detects of 197 samples), and styrene (1 detect of 197 samples). None of the organic compound concentrations exceed the adjusted or unadjusted EPA Region 6 residential HHRB screening levels. Therefore, these organic compounds are not compounds of concern at the site.

Mercury was not detected during this investigation even though it was detected during the 2D-1 investigation in a pattern that indicated the possibility of a release. Sample results from the 2D-1 investigation indicated a maximum mercury concentration approximately one order of magnitude lower than 10 percent of the EPA Region 6 HHRB residential screening level. Therefore, mercury is not a contaminant of concern.

**Table 2-4. Comparison of Maximum Reported Data from SWMU 6-30 to HHRB Screening Levels**

| Analyte | Maximum Reported Concentration and Sample Number[a] (mg/kg) | EPA Region 6 HHRB Screening Levels[b,c] (mg/kg) |
|---|---|---|
| **ORGANICS** | | |
| Acetone | 0.014<br>RB11-BG04-0305 and RB11-43-0810 | 2,000 (residential)<br>200 (10% residential)<br>8,400 (industrial)<br>840 (10% industrial) |
| Bis(2-ethylhexyl)phthalate | 17 [d]<br>RB11-41-0305 | 32 (residential)<br>140 (industrial) |
| Phenol | 0.49<br>RB11-BG04-1820 | 39,000 (residential)<br>3,900 (10% residential)<br>saturation (industrial) |
| Styrene | 0.005<br>RB11-41-0810 | 2,200 (residential and industrial)<br>220 (10% residential and industrial) |
| **INORGANICS** | | |
| Cyanide | 1.06<br>RB11-38-0305FD | 1,300 (residential)<br>130 (10% residential)<br>14,000 (industrial)<br>1,400 (10% industrial) |
| Aluminum | *18,400* [e]<br>RB11-BG03-0305 | 77,000 (residential)<br>7,700 (10% residential)<br>saturation (industrial) |
| Antimony | 0.57<br>RB11-54-2325 | 31 (residential)<br>3.1 (10% residential)<br>680 (industrial)<br>68 (10% industrial) |
| Arsenic | **14.7** [e]<br>RB11-60-0810 | 0.32 (residential)<br>2.0 (industrial) |
| Barium | 438<br>RB11-64-0305 | 5,300 (residential)<br>530 (10% residential)<br>saturation (industrial) |
| Beryllium | *0.87* [e]<br>RB11-BG03-0305 | 0.14 (residential)<br>1.10 (industrial) |
| Cadmium | *<4* [e] | 38 (residential)<br>3.8 (10% residential)<br>850 (industrial)<br>85 (10% industrial) |
| Chromium | *43* [e]<br>RB11-62-1315 | 210 (residential)<br>21 (10% residential)<br>1,600 (industrial)<br>160 (10% industrial) |
| Cobalt | 9.5<br>RB11-43-1820 | 4,700 (residential)<br>470 (10% residential)<br>saturation (industrial) |
| Copper | *3,020* [e]<br>RB11-48-2325 | 2,800 (residential)<br>280 (10% residential)<br>63,000 (industrial)<br>6,300 (10% industrial) |

**Table 2-4. Comparison of Maximum Reported Data from SWMU 6-30 to HHRB Screening Levels, (Continued)**

| Analyte | Maximum Reported Concentration and Sample Number[a] (mg/kg) | EPA Region 6 HHRB Screening Levels[b,c] (mg/kg) |
|---|---|---|
| Iron | *38,100*[e]<br>RB11-49-2830 | 23,000 (residential)<br>2,300 (10% residential)<br>saturation (industrial) |
| Lead | *46.7*[e]<br>RB11-43-1315 | 400 (residential)<br>40 (10% residential)<br>2,000 (industrial)<br>200 (10% industrial) |
| Magnesium | 10,600<br>RB11-62-1315 | N/A[f] |
| Manganese | *418*[e]<br>RB11-62-1315 | 380 (residential actual value)<br>38 (10% residential value)<br>8,300 (industrial actual value)<br>830 (10% industrial value) |
| Mercury | <0.1 | 23 (residential)<br>2.3 (10% residential)<br>510 (industrial)<br>51 (10% industrial) |
| Molybdenum | <8 | 380 (residential)<br>38 (10% residential)<br>8,500 (industrial)<br>850 (10% industrial) |
| Nickel | 28<br>RB11-62-1315 | 1,500 (residential)<br>150 (10% residential)<br>34,000 (industrial)<br>3,400 (10% industrial) |
| Potassium | 5,250<br>RB11-38-0305FD | N/A[f] |
| Selenium | 0.54<br>RB11-48-0305FD | 380 (residential)<br>38 (10% residential)<br>8,500 (industrial)<br>850 (10% industrial) |
| Silver | <1.2 | 380 (residential)<br>38 (10% residential)<br>8,500 (industrial)<br>850 (10% industrial) |
| Sodium | 1,020<br>RB11-62-1315 | N/A[f] |
| Thallium | 0.58<br>RB11-55-2325 | 6.1 (residential)[g]<br>0.61 (10% residential)<br>140 (industrial)[g]<br>14 (10% industrial) |
| Vanadium | *81.4*[e]<br>RB11-49-2830 | 540 (residential)<br>54 (10% residential value)<br>12,000 (industrial)<br>1,200 (10% industrial) |

**Table 2-4. Comparison of Maximum Reported Data from SWMU 6-30 to HHRB Screening Levels, (Continued)**

| Analyte | Maximum Reported Concentration and Sample Number[a] (mg/kg) | EPA Region 6 HHRB Screening Levels[b,c] (mg/kg) |
|---|---|---|
| Zinc | *1,100*[e]<br>RB11-48-2325 | 3,300 (residential)<br>330 (10% residential value)<br>saturation (industrial) |

[a] Sample number formats are the site (RB11)-the boring number (NN)-and the depth in feet that the sample was collected from (NN-NN). Samples with FD are duplicates and BG are from the background borings.
[b] EPA Region 6 HHRB Media-Specific Residential Screening Levels.
[c] Screening levels for noncarcinogens reflect an adjustment to 10 percent of the actual EPA Region 6 screening level to account for possible additive effects related to exposure to multiple contaminants.
[d] A single sample (RB11 41-0305) displayed a higher concentration of bis(2-ethylhexyl)phthalate (100 mg/kg). However, none of the other 79 samples that contained reportable concentrations of bis(2-ethylhexyl)phthalate contained levels of this order of magnitude nor did the sample in question contain any other reportable concentrations of organic compounds. Since bis(2-ethylhexyl)phthalate is a common lab contaminant, the anomalous 100 mg/kg result was discounted during the data evaluation process and the second highest reportable concentration,17 mg/kg, is shown as the maximum reported concentration.
[e] Values in italics exceed either the adjusted or unadjusted residential screening levels; values in boldface exceed either the adjusted or unadjusted industrial screening levels.
[f] No screening level available.
[g] Screening level is for the lowest level of the thallium salts.

Reportable concentrations of cyanide were only found in five samples and all concentrations were below the EPA Region 6 HHRB residential and industrial screening levels. Therefore, cyanide is not a compound of concern at the site.

The maximum reported concentrations for arsenic, beryllium, copper, iron, and manganese exceed the EPA Region 6 residential screening values; however, with the exception of arsenic, concentrations do not exceed the industrial screening values. The maximum reported concentrations of aluminum, chromium, lead, vanadium, and zinc exceed the adjusted EPA Region 6 residential screening levels (10 percent of the actual value). These maximum metal concentrations do not exceed the adjusted or unadjusted industrial screening levels. In addition, the detection level for cadmium, 4 mg/kg, is slightly greater than the adjusted residential screening level of 3.8 mg/kg. Therefore, some cadmium samples may exceed the adjusted screening level, although they would not exceed the unadjusted residential level or the industrial levels. The subsections below discuss each of these metals in more detail.

**Arsenic.** Ninety-one (91) percent, or 162 of the 179 samples collected (including 22 of the 24 background samples), exceed the industrial screening level for arsenic. Potentially all of the samples exceed the residential screening level, since the analytical detection limit (approximately 0.5 mg/kg) exceeds the residential screening level (0.32 mg/kg).

**Aluminum.** Eighty-one (81) of the 179 samples collected (including 8 of the 24 background samples) exceed the adjusted residential screening level for aluminum. None of the samples exceed the unadjusted residential screening level. There is no correlation between the samples with exceedances and either borehole location or sample depth, as can be seen in Table 2-2.

**Beryllium.** All of the samples collected may exceed the residential screening level for beryllium, since the detection limit (approximately 0.3 mg/kg) exceeds the screening level (0.14 mg/kg). None of the samples exceed the industrial screening level. Among those samples known to exceed the residential screening level (those with concentrations greater than or equal to the detection limit), there is no correlation between concentration and either borehole location or sample depth.

**Cadmium.** None of the samples collected exceed the unadjusted residential or the industrial screening levels for cadmium. Although there were no detections of cadmium in the soil samples, all of the samples collected may exceed the adjusted residential screening level, since the detection limit (approximately 4 mg/kg) slightly exceeds the screening level (3.8 mg/kg). However, a review of the cadmium data by the analytical laboratory indicates that the concentrations of cadmium detected, although they were less than the analytical reporting limit and therefore may have some variability in their accurateness, were less than the 3.8 mg/kg screening level (Barba, 1998). Because of this, cadmium is not considered to have exceeded a HHRB screening level at this SWMU.

**Chromium.** Six (6) of the 179 samples collected exceed the adjusted residential screening level for chromium (RB11-44 from 18 to 20 ft belowground surface (bgs), RB11-48 from 3 to 5 ft and 23 to 25 ft bgs, RB11-49 from 28 to 30 ft bgs, RB11-61 from 18 to 20 ft bgs, and RB11-62 from 13 to 15 ft bgs). None of the samples exceed the unadjusted residential or the adjusted or unadjusted industrial screening levels. Among those samples that exceed the adjusted residential screening level, there is no correlation between concentration and either borehole location or sample depth.

**Copper.** Nine (9) of the 179 samples collected exceed the adjusted residential screening level for copper, and 1 sample (RB11-48-2325) exceeds the unadjusted residential screening level. Of the 9 samples, (RB11-39 from 18 to 20 ft bgs, RB11-47 from 13 to 15 ft bgs, RB11-48 from 3 to 5 ft and 23 to 25 ft bgs, RB11-51 from 23 to 25 ft bgs, RB11-53 from 23 to 25 ft bgs, RB11-62 from 18 to 20 ft bgs, RB11-BG03 from 18 to 20 ft bgs, and RB11-BG04 from 28 to 30 ft bgs) 2 are from the background borings.

**Iron.** All of the samples collected (including background samples) exceed the adjusted residential screening level for iron. Only 1 sample, RB11-49-2830, exceeds the unadjusted residential screening level. None of the samples exceed the industrial screening levels.

**Lead.** Only 1 sample (RB11-43-1315) exceeds the adjusted residential screening level for lead. It does not exceed the unadjusted residential or the industrial screening levels.

**Manganese.** All of the soil samples collected, including background samples, exceed the adjusted residential screening value for manganese. Only 1 sample, RB11-62-1315, exceeds the unadjusted residential screening level. None of the samples exceed the industrial screening levels.

**Vanadium.** Only 1 of the 179 samples collected exceeds the adjusted residential screening level for vanadium (RB11-49-2830). It does not exceed the unadjusted residential or the industrial screening levels.

**Zinc.** Only 1 of the 179 samples collected exceeds the adjusted residential screening level for zinc (RB11-48-2325). It does not exceed the unadjusted residential or the industrial screening levels.

### 2.3.1.2 *Comparison to Background Concentrations*

The analytes that exceeded an adjusted or unadjusted residential or industrial screening level were then compared to the SNL UTLs and DOE/OB calculated background concentrations for Kirtland. A summary is presented in Table 2-5. Where SNL or DOE/OB data were not available, the detected concentrations were also compared to literature values for similar soil types.

**Table 2-5. Comparison of Analytical Data from SWMU 6-30 to Background Concentrations**

| Analyte | Maximum Reported Concentration (mg/kg) | DOE -OB Suggested Maximum Background[a] (mg/kg) | SNL-Calculated 95th Percentile or UTL [a] (mg/kg) |
|---|---|---|---|
| Aluminum | 18,400 | Not calculated | Not calculated |
| Arsenic | *14.7* [b] | 5.6 (surface)<br>4.4 (subsurface) | 5.6 (surface)<br>4.4 (subsurface) |
| Beryllium | *0.87* [b] | 0.8 | 0.8 |
| Chromium | *43* [b] | 21.8 (surface)<br>16.2 (subsurface) | 21.8 (surface)<br>16.2 (subsurface) |
| Copper | *3,020* [b] | 17 | 27.7 (surface)<br>224 (subsurface) |
| Iron | 38,100 | Not calculated | Not calculated |
| Lead | *46.7* [b] | 39 (surface)<br>11.2 (subsurface) | 68 (surface)<br>11.2 (subsurface) |
| Manganese | 418 | Not calculated | Not calculated |
| Vanadium | *81.4* [b] | 33.0 | 47.2 (surface)<br>42.8 (subsurface) |
| Zinc | *1,100* [b] | 76 | 117 |

[a] Where available, DOE/OB and SNL UTL values for the Tijeras Super Group soils were used since this is the location of the site.
[b] Values exceeding the DOE/OB or SNL levels are in italics.

Each analyte is discussed in the following subsections.

**Aluminum.** Background concentrations were not established for aluminum in the SNL/NM background study report or by the DOE/OB. However, since all of the samples, including background samples, contain aluminum concentrations in excess of adjusted residential screening levels, these concentrations are most likely naturally occurring and not due to anthropogenic activities. Likewise, the literature values for the average concentration of aluminum in soils (77,000 mg/kg, 71,000 mg/kg, 81,300 mg/kg, and 80,500 mg/kg from Krauskopf [1967], Lindsay [1979], Mason [1966], and Vinogradov [1962], respectively,) are much higher than the maximum concentration detected at SWMU 6-30 (18,400 mg/kg). For these reasons, the aluminum at the site is believed to be naturally occurring.

**Arsenic.** The maximum reported arsenic values for SWMU 6-30 do exceed the SNL-calculated UTL background concentrations for arsenic. However, of the 179 samples collected from the site, only 30 samples contained arsenic concentrations that exceeded the DOE/OB suggested maximum background concentration and the SNL-calculated subsurface UTL. These sample locations and their concentrations are presented in Table 2-6. The samples with arsenic concentrations exceeding the UTL do not display a consistent pattern of UTL exceedances from subsequent depth intervals (i.e., 0- to 2-ft and 5- to 7-ft

samples from a boring location do not exceed appropriate UTLs, but 10- to 12-ft samples do exceed UTL) and furthermore, several samples from the background boring locations at the site also exceed the SNL-calculated UTL.

**Table 2-6. Summary of Arsenic Samples from SWMU 6-30 Exceeding DOE and SNL UTLs**

| Boring Location and Sample Interval | Sample Concentration (mg/kg) |
|---|---|
| RB11-39-0305 | 4.9 |
| RB11-41-0810 | 4.5 |
| RB11-44-0305 | 5.2 |
| RB11-44-2325 | 5 |
| RB11-46-2830 | 5.7 |
| RB11-47-0305 | 5.1 |
| RB11-48-0305 | 8.8 |
| RB11-50-0810 | 4.6 |
| RB11-53-0810 | 4.5 |
| RB11-53-2830 | 5.1 |
| RB11-55-2325 | 5.3 |
| RB11-59-0305 | 5.4 |
| RB11-59-0810 | 4.5 |
| RB11-59-1315 | 5.8 |
| RB11-59-1820 | 5.5 |
| RB11-60-0305 | 12.3 |
| RB11-60-0810 | 14.7 |
| RB11-60-2830 | 12.4 |
| RB11-61-0305 | 10.1 |
| RB11-61-0810 | 13.5 |
| RB11-61-1315 | 4.7 |
| RB11-63-0305 | 5 |
| RB11-64-0810 | 6.9 |
| RB11-BG03-0305 | 4.9 |
| RB11-BG03-0810 | 4.7 |
| RB11-BG04-0810 | 4.6 |
| RB11-BG05-0305 | 6.1 |
| RB11-BG05-2830 | 4.8 |
| RB11-BG06-0810 | 6.3 |

Arsenic is found in trace amounts in the environment. It attaches to soil particles, stream sediments, and aquifer materials. It also forms minerals with other elements, predominantly iron and sulfur. Iron, manganese, and phosphate minerals can contain more than 1,000 mg/kg arsenic. Arsenic concentrations are highest in iron-rich sedimentary rocks, which contain as much as 2,900 mg/kg arsenic (Boyle and Jonasson, 1973). Pyrite, a common iron sulfide material, can contain as much as 5,600 mg/kg arsenic. The following Table 2-7 lists some of the literature values for arsenic in various rocks and soils.

**Table 2-7. Literature Values for Arsenic Concentrations in Soils and Rocks**

| Media | Concentration (mg/kg) |
|---|---|
| Soils | 0.1 to 55[a] |
| | 1 to 50[b] |
| Western US | 1.2 to 97[c] |
| | 0.1 to 55 [d] |
| | 0.1 to 48 [e] |
| Rocks | |
| Volcanic | 0.18 to 113 [a] |
| Igneous | 0.061 to 28 [a] |
| | 0.2 to 13.8 [d] |
| Metamorphic | <0.05 to 143 [a] |
| Sedimentary | |
| Sandstone | 0.6 to 120 [a] |
| | 0.6 to 120 [d] |
| Clay-Rich | 0.3 to 500 [a] |
| Iron-Rich | 1.0 to 2,900 [a] |

[a] Boyle and Jonasson, 1973.
[B] Lindsay, 1979.
[C] Shacklette et al, 1974.
[D] Adriano, 1986.
[E] Pais and Jones, 1997.

As can be seen from the table, arsenic concentrations vary considerably in different soil and rock types and within a given soil or rock type. Arsenic is known to be elevated in the soils, rocks, and aquifers of the Albuquerque basin. In fact, the City of Albuquerque is currently investigating methods to remove the naturally occurring arsenic concentrations found in the City's drinking water sources. The soils at SWMU 6-30 are alluvial deposits from the weathering of the nearby Sandia and Manzano Mountains. They are, therefore, the weathered granites, limestone/sandstones, and high-grade metamorphic rocks of these mountains. The highest concentration detected at SWMU 6-30, 14.7 mg/kg, is well within the literature values for these soil types, especially considering the fact that the soils have high concentrations of iron-rich sedimentary rocks.

Arsenic is used industrially in the manufacture of herbicides and pesticides, wood preservatives, and as a glass decolorizer (Patterson, 1985). None of these materials or activities have been reported to have occurred at SWMU 6-30. This information, along with the limited occurrence and the randomness of samples with arsenic concentrations exceeding the SNL-calculated UTL, as well as the fact that the concentrations are well below the literature values for the soil types present at the site, suggest that these levels are the result of naturally occurring background concentrations. UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Beryllium.** Only 2 of the 179 samples collected (1 percent) contained beryllium concentrations greater than the DOE- or SNL-calculated 95$^{th}$ percentile or UTL. One of these samples, RB11-BG03-0305, was collected from a background boring. The very limited occurrence and the randomness of samples with

beryllium concentrations exceeding the DOE-suggested maximum background and SNL-calculated UTL and the small amount by which they exceed the UTL (0.07 mg/kg) suggest that these levels are the result of naturally occurring background concentrations since UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels. Likewise, the concentrations of the 2 exceedances—0.86 mg/kg and 0.87 mg/kg—are much less than the literature values for beryllium in soil (6 mg/kg [Lindsay, 1979]) and beryllium in granite (5 mg/kg [Krauskopf, 1967]).

**Chromium.** Five (5) of the 179 samples collected (RB11-48-0305, RB11-49-2830, RB11-44-1820, RB11-61-1820, and RB11-62-1315) exceed the DOE/OB suggested maximum background concentration and the SNL UTL for surface soils. Twenty-four (24) of the 179 samples, including a background sample, exceed the subsurface soil levels. The very limited occurrence (less than 3 percent and 13 percent, respectively) and the randomness of samples with chromium concentrations exceeding the DOE-suggested maximum background and SNL-calculated UTL suggest that these levels are the result of naturally occurring background concentrations since UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels. Likewise, the highest chromium concentration detected, 43 mg/kg in sample RB11-62-1315, is less than the literature values found for the average concentration of chromium in soils of 100 mg/kg (Lindsay, 1979 and Mason, 1966) and 83 mg/kg (Vinogradov, 1962).

**Copper.** Almost all, or 94 percent, of the 179 samples collected exceed the DOE/OB suggested maximum background concentration of 17 mg/kg. This includes 169 of the 179 samples collected, including 20 of the 24 background samples. However, only 18 of the 179 samples (10 percent), including 2 background samples (8 percent), exceed the SNL UTL of 224 mg/kg. The samples with copper concentrations exceeding the SNL UTL do not display a consistent pattern of UTL exceedances from subsequent depth intervals (i.e., 0- to 2-ft and 5- to 7-ft samples from a boring location do not exceed appropriate UTLs, but 10- to 12-ft samples do exceed UTL) as shown in Table 2-8. These 18 samples were collected from 13 different borings and from each of the depths sampled, from the 3- to 5-ft interval to the 28- to 30-ft bgs interval. Because of this, and the fact that the background samples show the same levels of copper as the samples collected from the SWMU, these levels are believed to be naturally occurring. Likewise, the main industrial uses of copper (metal plating, manufacture of circuit boards, wood preservation, fertilizer manufacturing [Patterson, 1985]) are not reported to have occurred at the site. Therefore, there are no known or suspected activities that have occurred at the site that could have produced these concentrations and the copper concentrations are not believed to have originated from anthropogenic activities.

**Table 2-8. Summary of Copper Samples from SWMU 6-30 Exceeding SNL UTLs**

| Boring Location and Sample Interval | Sample Concentration (mg/kg) |
|---|---|
| RB11- 38-1315 | 256 |
| RB11-39-1820 | 442 |
| RB11-46-1315 | 240 |
| RB11-47-1315 | 461 |
| RB11-47-1820 | 261 |
| RB11-47-2830 | 230 |
| RB11-48-0305 | 395 |
| RB11-48-2325 | 3,020 |
| RB11-49-2830 | 264 |
| RB11-51-2325 | 531 |
| RB11-53-0305 | 277 |
| RB11-53-2325 | 431 |
| RB11-57-0810 | 259 |
| RB11-59-1820 | 242 |
| RB11-62-1820 | 296 |
| RB11-62-2830 | 251 |
| RB11-BG03-1820 | 307 |
| RB11-BG04-2830 | 813 |

**Iron.** Background concentrations were not established for iron in the SNL/NM or DOE/OB background study reports. However, the maximum concentration detected at SWMU 6-30 (38,100 mg/kg, sample RB11-49-2830) is less than the literature values of 27,000 to 86,000 mg/kg, 50,000 mg/kg, and 46,500 mg/kg found in Krauskopf (1967), Mason (1966) and Vinogradov (1962), respectively. Likewise, since all of the samples, including background samples, contain iron concentrations in excess of adjusted residential screening levels, these concentrations are most likely naturally occurring and not due to anthropogenic activities.

**Lead.** The maximum reported concentration of lead is less than the SNL-calculated 95$^{th}$ percentile or UTLs, indicating that this constituent is probably not related to anthropogenic activities at SWMU 6-30.

**Manganese.** As with iron, background concentrations were not established for manganese in the SNL/NM or DOE/OB background study reports. However, the maximum concentration detected at SWMU 6-30 (418 mg/kg, sample RB11-62-1315) is less than the literature values of 400 to 1,500 mg/kg, 950 mg/kg, and 1,000 mg/kg found in Krauskopf (1967), Mason (1966) and Vinogradov (1962), respectively. Likewise, since all of the samples, including background samples, contain manganese concentrations in excess of adjusted residential screening levels, these concentrations are most likely naturally occurring and not due to anthropogenic activities.

**Vanadium.** Twelve (12) of the 197 samples collected exceed the DOE/OB suggested maximum background concentration of 33 mg/kg. These 12 samples were collected from 9 different borings, which

were from 5 different suspected trenches and 2 background borings (05 and 06) (see Table 2-2). The samples were collected from depths of 3 to 5 ft up to 28 to 30 ft bgs. Therefore, there is no pattern of exceedances with respect to boring location or depth. Only 1 sample's concentration (RB11-49-2830, 81.4 mg/kg)) exceeds the SNL surface soil UTL and 1 additional sample (RB11-50-1315, 44.1 mg/kg) exceeds the SNL subsurface UTL. Both of these samples are well within the literature values found for the average concentration of vanadium in soils of 20 to 250 mg/kg (Krauskopf, 1967), 100 m/kg (Lindsay, 1979), 135 mg/kg (Mason, 1966) and 83 mg/kg (Vinogradov, 1962). This, coupled with the very limited occurrence (6 percent and 1 percent, respectively) and the randomness of samples with vanadium concentrations exceeding the DOE-suggested maximum background and SNL-calculated UTL, suggests that these levels are the result of naturally occurring background concentrations since UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Zinc.** Thirty-two (32) of the 197 samples collected exceed the DOE/OB suggested maximum background concentration of 76 mg/kg. These samples were collected from 19 different borings, which were from 7 of the 9 different suspected trenches and 2 background borings (04 and 05) (see Table 2-2). The samples were collected from depths of 3 to 5 ft up to 28 to 30 ft bgs. Therefore, there is no pattern of exceedances with respect to boring location or depth. Only 10 samples' concentrations (including 2 background samples) exceed the SNL UTL of 117 mg/kg. The maximum concentration detected, 1,100 mg/kg in sample RB11-48-2325, is greater than the literature values for zinc in soil; however, the samples from directly above and below this sample within the boring are not (RB11-48-1820 is 36.8 mg/kg and RB11-48-2830 is 21.1 mg/kg) nor are the samples from the same interval from the adjacent borings (RB11-47-2325 is 44 mg/kg and RB11-49-2325 is 40.1 mg/kg). This sample is therefore believed to be an isolated naturally occurring hot spot. The very limited occurrence (16 percent and 5 percent, respectively) and the randomness of samples with zinc concentrations exceeding the DOE-suggested maximum background and SNL-calculated UTL suggest that these levels are the result of naturally occurring background concentrations since UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Summary.** From the discussion above, there is not a clear pattern of contamination from a single metal constituent—the elevated levels for any given metal appear to be random with respect to both boring location and sample depth. The same lack of pattern is seen when all of the samples that exceed a HHRB screening level are considered together. In Table 2-9, the number of exceedances of a HHRB screening level are listed for each sample. For this table, the number of exceedances are based upon the adjusted residential screening values except for the following:

- For carcinogens, the unadjusted screening level was used since there are no adjustments made for carcinogens.
- For arsenic and beryllium, the industrial screening level was used since all of the samples may have exceeded the residential screening level.
- For iron and magnesium, the unadjusted residential screening level was used since all of the samples exceeded the adjusted levels.

From the table it can be seen that there is not a clear pattern of multiple contaminants in either a single trench, a single boring, or a given sample depth. In fact, in both the samples from the trenches and the background samples, the lowest numbers of exceedances are seen in the depth of the buried materials (the middle intervals) and the highest numbers of exceedances are seen in the cover material (3 to 5 ft bgs) and

**Table 2-9. Number of HHRB Exceedances Per Sample Collected from SWMU 6-30**

| Trench Number | Boring Number | Interval (ft bgs) 3 to 5 | 8 to 10 | 13 to 15 | 18 to 20 | 23 to 25 | 28 to 30 | Total Per Boring | Average Per Sample |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 37 | 2 | 2 | 1 | 1 | | | 6 | 1.5 |
| 1 | 38 | 2 | 1 | 1 | 2 | | | 6 | 1.5 |
| 2 | 39 | 2 | 1 | 1 | 2 | Not | Sampled | 6 | 1.5 |
| 2 | 40 | 1 | 1 | 1 | 1 | | | 4 | 1.0 |
| 3 | 41 | 1 | 2 | 1 | 0 | | | 4 | 1.0 |
| 4 | 42 | 2 | 1 | 2 | 2 | | | 7 | 1.8 |
| 5 | 43 | 2 | 2 | 2 | 1 | 1 | 1 | 9 | 1.5 |
| 5 | 44 | 1 | 2 | 1 | 3 | 2 | 2 | 11 | 1.8 |
| 5 | 45 | 2 | 1 | 0 | 1 | 2 | 1 | 7 | 1.2 |
| 5 | 46 | 1 | 1 | 1 | 1 | 1 | 1 | 6 | 1.0 |
| 6 | 47 | 2 | 2 | 3 | 1 | 2 | 1 | 11 | 1.8 |
| 6 | 48 | 4 | 2 | 1 | 1 | 5 | 1 | 14 | 2.3 |
| 6 | 49 | 1 | 1 | 1 | 2 | 1 | 4 | 10 | 1.7 |
| 6 | 50 | 1 | 2 | 1 | 2 | 1 | 2 | 9 | 1.5 |
| 7 | 51 | 1 | 2 | 2 | 1 | 2 | 2 | 10 | 1.7 |
| 7 | 52 | 1 | 0 | 2 | 2 | 0 | 2 | 7 | 1.2 |
| 7 | 53 | 2 | 2 | 0 | 1 | 1 | 2 | 8 | 1.3 |
| 7 | 54 | 2 | 2 | 1 | 0 | 0 | 2 | 7 | 1.2 |
| 7 | 55 | 2 | 2 | 0 | 2 | 2 | 1 | 9 | 1.5 |
| 8 | 56 | 1 | 2 | 1 | 2 | 1 | 2 | 9 | 1.5 |
| 8 | 57 | 2 | 1 | 1 | 1 | 0 | 1 | 6 | 1.0 |
| 8 | 58 | 2 | 1 | 1 | 1 | 1 | 1 | 7 | 1.2 |
| 8 | 59 | 2 | 1 | 1 | 2 | 0 | 1 | 7 | 1.2 |
| 8 | 60 | 2 | 2 | 1 | 1 | 1 | 1 | 8 | 1.3 |
| 9 | 61 | 1 | 1 | 1 | 2 | 1 | 1 | 7 | 1.2 |
| 9 | 62 | 2 | 0 | 4 | 1 | 1 | 1 | 9 | 1.5 |
| 9 | 63 | 2 | 1 | 1 | 1 | 1 | 2 | 8 | 1.3 |
| 9 | 64 | 2 | 2 | 0 | 1 | 1 | 0 | 6 | 1.0 |
| **Total Per Interval** | | **48** | **40** | **33** | **38** | **27** | **32** | | |
| **Average Per Interval** | | **1.7** | **1.4** | **1.2** | **1.4** | **1.2** | **1.5** | | **1.4** |
| | BG03 | 2 | 2 | 1 | 2 | 1 | 2 | 10 | 1.7 |
| | BG04 | 2 | 2 | 0 | 0 | 1 | 2 | 7 | 1.2 |
| | BG05 | 2 | 1 | 1 | 1 | 2 | 1 | 8 | 1.3 |
| | BG06 | 1 | 2 | 1 | 0 | 1 | 1 | 6 | 1.0 |
| **Total Per Interval** | | **7** | **7** | **3** | **3** | **5** | **6** | | |
| **Average Per Interval** | | **1.8** | **1.8** | **0.8** | **0.8** | **1.3** | **1.5** | | **1.3** |

Note: All numbers are equal the number of adjusted residential screening values exceeded except for carcinogens (unadjusted residential was used), arsenic and beryllium (industrial was used since all samples exceeded residential), and iron and manganese (unadjusted residential was used since all samples exceeded the adjusted values)

in the native soils beneath the buried materials (23 to 30 ft bgs). Likewise, the average number of exceedances per sample is almost identical for the samples from the trenches (1.4) and the background samples (1.3). And finally, for the sample with the most exceedances, RB11-48-2325 (5 exceedances), the samples directly above and below this sample in the boring as well as the samples from the same interval in adjacent borings within the trench all have only 1 or 2 exceedances. Therefore, there is not a clear pattern of multiple metals in individual samples all being in exceedance of EPA HHRB screening levels. Likewise, there are no organic contaminants of concern present in the samples, providing further support that these metal concentrations are not the result of anthropogenic activities.

#### *2.3.1.3 Comparison to FDA Dietary Standards*

As requested by the NMED (1997), maximum reported concentrations of essential nutrients for samples collected from SWMU 6-30 were compared to the RDIs of 100 mg of soil. This intake assumption corresponds to a residential receptor. Table 2-10 summarizes the results of these comparisons. These results show that the daily intake of the various nutrients/minerals, as a result of soil ingestion, would not exceed the RDI or DRV.

**Table 2-10. Summary of Maximum Reported Essential Nutrients Data for SWMU 6-30**

| Analyte | Maximum Reported Concentration (mg/kg) | Calculated Daily Intake (mg/day) | RDI or DRV[a] (mg/day) |
|---|---|---|---|
| Calcium | 168,000 | 16.8 | 1,000 |
| Magnesium | 10,600 | 1.06 | 400 |
| Potassium | 5,250 | 0.525 | 3,500 |
| Sodium | 1,020 | 0.102 | 2,400 |

[a] RDI established for vitamins, minerals and protein; RDIs presented for calcium and magnesium. DRV established for nutrients; DRVs are presented for sodium and potassium.

Source: FDA, 1996.

Therefore, none of the nonradioactive metals are considered to be compounds of concern at the site.

#### *2.3.1.4 Excess Lifetime Cancer Risks from Internal and External Radiation Exposure*

Data on radioactive compounds were collected during this investigation by conducting gross alpha and gross beta and gamma spectroscopy analyses on soil samples. The grass alpha and gross beta analyses provided values for the sum of the alpha and beta emitters in the soils. These data were compared to the same values for the background samples. The gamma spectroscopy analyses yielded the concentrations, in picocuries per gram (pCi/g), of specific radioactive isotopes. Table 2-11 presents the maximum reported individual radioactive isotope concentrations for SWMU 6-30. Since compound-specific screening levels do not exist, radioactive isotope data were evaluated by inputting the data into a model to determine whether the radioactive isotope concentrations at the site pose a risk to human health. The model used to conduct this evaluation was the RESRAD model, as requested by NMED.

**Table 2-11. Summary of Maximum Reported Radioactive Isotope Concentrations for SWMU 6-30**

| Analyte | Maximum Reported Concentration [a] (pCi/g) |
|---|---|
| Actinium-228 | 1.78 |
| Bismuth-212 | 0.94 |
| Bismuth-214 | 0.92 |
| Cobalt-57 | ND |
| Cobalt-60 | ND |
| Cesium-134 | 0.032 |
| Cesium-137 | 0.069 |
| Potassium-40 | 23.6 |
| Lead-210 | 6.2 |
| Lead-212 | 1.73 |
| Lead-214 | 1.01 |
| Radium-226 | 2.16 |
| Thorium-234 | 5.22 |
| Thallium-208 | 0.524 |
| Uranium-235 | 0.22 |
| Gross Alpha | 28 |
| Gross Beta[b] | 36.9 |

[a] There are no specific compound action levels or screening levels to which radioactive isotope data can be compared; therefore, only maximum reported concentrations are presented.
[b] Strontium-90 (Sr-90) was identified in the Stage 2D-1 RFI report as an historical contaminant of concern. Sr-90 is a beta emitter and the "Gross Beta" analysis characterizes Sr-90 and other beta emitters.

Table 2-12 summarizes the data input into the RESRAD model in order to calculate total dose and estimated excess lifetime cancer risks associated with site SWMU 6-30. Tables 2-13 and 2-14 present the calculated total dose (millirem per year [mrem/year]) and the estimated excess lifetime cancer risks calculated by the RESRAD model.

**Table 2-12. RESRAD Inputs for SWMU 6-30**

| Model Parameter (units) | Assigned Value[a] |
|---|---|
| Area of contaminated zone ($m^2$) | 161,880 |
| Thickness of contaminated zone (m) | 7.6[b] |
| Time since placement of material (years) | 37 |
| Cover depth (m) | 0[c] |
| Contaminated zone total porosity (dimensionless) | 0.3 |
| Contaminated zone effective porosity (dimensionless) | 0.25 |
| Evapotranspiration Coefficient (dimensionless) | 0.9[d] |
| Precipitation (m/year) | 0.35 |
| Irrigation (m/year) | 0 |
| Runoff coefficient (dimensionless) | 0.3 |
| Inhalation rate ($m^3$/year) | 1,666[e] |
| Exposure duration (years) | 25 |
| Fraction of time spent indoors | 0 |
| Soil ingestion rate (g/year) | 12.5[f] |

[a] All other model inputs were set to model default values.
[b] The thickness of contaminated zone was assumed by selecting the deepest soil sample depth associated with the maximum-reported activity of any radionuclide.
[c] A cover depth of zero implies that there is not a cap over the site that would reduce surface concentrations.
[d] The calculated evapotranspiration coefficient was 3.01; the model does not allow input of a value greater than 0.999. Consequently, a value of 0.9 was used.
[e] Assumes 20 $m^3$/day inhalation rate (prorated for an 8-hour workday over a 25-year work-lifetime).
[f] Assumes a 50-mg/day ingestion rate over a 25-year work-lifetime.

**Table 2-13. Total Radiation Dose for SWMU 6-30**

| Time (years) | Total Dose[a] (mrem/year) |
|---|---|
| 0 | 1.35 |
| 1 | 1.361 |
| 3 | 1.32 |
| 10 | 1.177 |
| 30 | 0.8612 |
| 100 | 0.3084 |
| 300 | 0.01916 |
| 1,000 | 0.00000194 |

[a] Maximum dose (1.363 mrem/year) occurs at 0.6175 years.

**Table 2-14. Excess Cancer Risks by Pathway (Year 0) for SWMU 6-30**

| Radionuclide | Ground[a] | Inhalation | Soil[b] |
|---|---|---|---|
| Cs-134 | 1.282E-07 | 1.918E-12 | 1.175E-10 |
| Cs-137 | 9.956E-08 | 2.710E-12 | 1.725E-10 |
| K-40 | 8.644E-06 | 3.659E-10 | 2.397E-08 |
| Pb-210 | 1.264E-09 | 2.179E-08 | 3.294E-07 |
| Ra-226 | 9.148E-06 | 1.206E-08 | 5.063E-08 |
| U-235 | 5.357E-08 | 5.912E-09 | 8.078E-10 |
| Total | 1.808E-05 | 4.012E-08 | 4.051E-07 |

[a] Ground refers to external ground level pathway.
[b] Soil refers to ingestion pathway.

The results of the RESRAD modeling for SWMU 6-30 indicate the following:

- The maximum total dose at SWMU 6-30 would occur at year 0.6175 and is about 1.4 mrem/year; the total dose ranges from 1.35 mrem/year at year 0 to 6.5E-08 mrem/year at year 1,000. (Year 0 refers to the year at the time of sample collection, in this case 1997; year 0.6175 refers to 0.6175 years in the future from the time of sample collection.) These values are all much less than the 30-mrem/year limit that DOE recommends be generally applied as a constraint for dose to any individual under the actual use or likely future use scenario.

- The estimated excess cancer risk ranges from $2 \times 10^{-5}$ for external radiation exposure (exposure resulting from being physically present at the site) to $4 \times 10^{-8}$ for inhalation (exposure resulting from inhalation of radioactive particles). The total estimated excess cancer risk is about $2 \times 10^{-5}$ for external exposure, inhalation, soil ingestion, and radon (including decay products). The radon risk assumes no indoor exposure and 25 percent outdoor exposure. These assumptions are realistic given there are no buildings on the site and personnel would be expected to spend only a nominal amount of time, if any, at this site.

The RESRAD model results indicate that the maximum total radiation dose for SWMU 6-30 will not exceed DOE's 30-mrem/year recommendation for an individual. Furthermore, the RESRAD model calculated the estimated excess cancer risk for external radiation at $2 \times 10^{-5}$. The EPA's acceptable risk range for excess cancer risk is $1 \times 10^{-4}$ to $1 \times 10^{-6}$ and the RESRAD model results indicate that, based on the screening level assessment, the order of magnitude of the excess cancer risk related to radiation exposure at SWMU 6-30 falls within this range.

## 2.4 Nature and Extent of Contamination

The primary contaminants of concern at this site were any concentrations of VOCs, SVOCs, metals, mercury, cyanide, or radioactive material that may have been present in the trenches at the site. The Stage 2D-1 RFI analyzed samples from borings advanced outside of the trenches. These samples indicated that there were no nonradioactive contaminants of concern above EPA Region 6 HHRB residential screening levels. The analytical results from this RFI corroborate those findings. They indicate that no levels of VOCs, SVOCs, mercury, or cyanide are present at the site in concentrations that exceed residential HHRB screening levels. Furthermore, concentrations of metals attributable to anthropogenic

activities are not present at the site. Screening level risk assessments conducted using the radioactive nuclide data collected indicate that the potential dose and excess cancer risk posed by radioactive material at the site do not exceed DOE and EPA guidelines. The Stage 2D-1 RFI report further indicates that only two samples contained radiological parameters exceeding background.

## 2.5 Conclusions and Recommendations

### 2.5.1 Conclusions

Nonradioactive compounds of concern, attributable to anthropogenic activities, were not detected at concentrations exceeding the residential or industrial HHRB screening levels at SWMU 6-30. Model calculations for radioactive compounds of concern indicate that neither the DOE radiation guidelines nor the EPA's acceptable radiation risk range are exceeded at the site. These findings corroborate the Stage 2D-1 RFI findings.

### 2.5.2 Recommendations

A CMS to include installation of a groundwater monitoring well to confirm no impacts to groundwater and a formal risk assessment is recommended to support no further RCRA action for SWMU 6-30, Radioactive Burial 11 (RW-06). However, a native soil cap to prevent erosion and ponding in low areas is recommended.

# SECTION 3.
# SWMU WP-58

# 3. SWMU WP-58, EAST LAUNDRY (BUILDING 20451) (WP-58)

SWMU WP-58 is located at 2251 Wyoming Blvd SE on the east side of Kirtland AFB and functioned as the Sandia Army Base Laundry. The exact period of operation of the laundry is unknown; however, the building was erected in 1950 and probably operated as the laundry from that time until the mid-1960s.

The building was renovated in 1983 and currently is used as an office for the Defense Evaluation Support Activity. The building is a single-story, slab-on-grade structure, approximately 17,500 sq ft. Washers, dryers, steam presses, and a water-softening unit were used during the facility operation. Effluent was discharged from the washers to a central concrete drainage trench that drained to a belowgrade sump on the east side of the building. The 500-gallon concrete sump discharged to the sanitary sewer via a 6-in discharge line. The sump was removed during the building renovation. A second, smaller sump was located inside the building next to the former water-softening units. This sump also discharged to the sanitary sewer via a 4-in line on the east side of the building.

Waste generated at the site included detergent and water effluent from the washers and calcium salts from the water softeners. The laundry did not operate a dry-cleaning service. The compounds detected indicate that dyeing operations or leaching of dyes occurred at the site. Herbicides were formerly used for landscape weed control.

## 3.1 Previous Investigations

Several surveys and investigations have been conducted at SWMU WP-58. The results of these investigations are discussed in the sections below.

### 3.1.1 Site Landscaping Study

A site landscaping study identified the herbicides 2,4-D and dicamba in subsurface soil (USAF, 1983). Levels were not in exceedance of the EPA Region 6 HHRB screening levels. The analytical results are presented in Table 3-1, with only those compound concentrations that exceeded the method detection levels reported. Boring locations (TH-1 and TH-2) are shown on Figure 3-1.

**Table 3-1. Summary of 1983 Landscaping Study Reportable Analytical Results, SWMU WP-58**

| Chemical Class | Analyte | Boring Number and Depth (Concentrations in mg/kg) | | | |
|---|---|---|---|---|---|
| | | TH-1 | | TH-2 | |
| | | 1.5 ft bgs | 6 ft bgs | 1.5 ft bgs | 6 ft bgs |
| Herbicides | 2,4 - D | 0.308 | ND | ND | ND |
| | Dicamba | 0.247 | 0.147 | 0.106 | 0.054 |
| Note: ND = Not detected above the method detection limit. | | | | | |

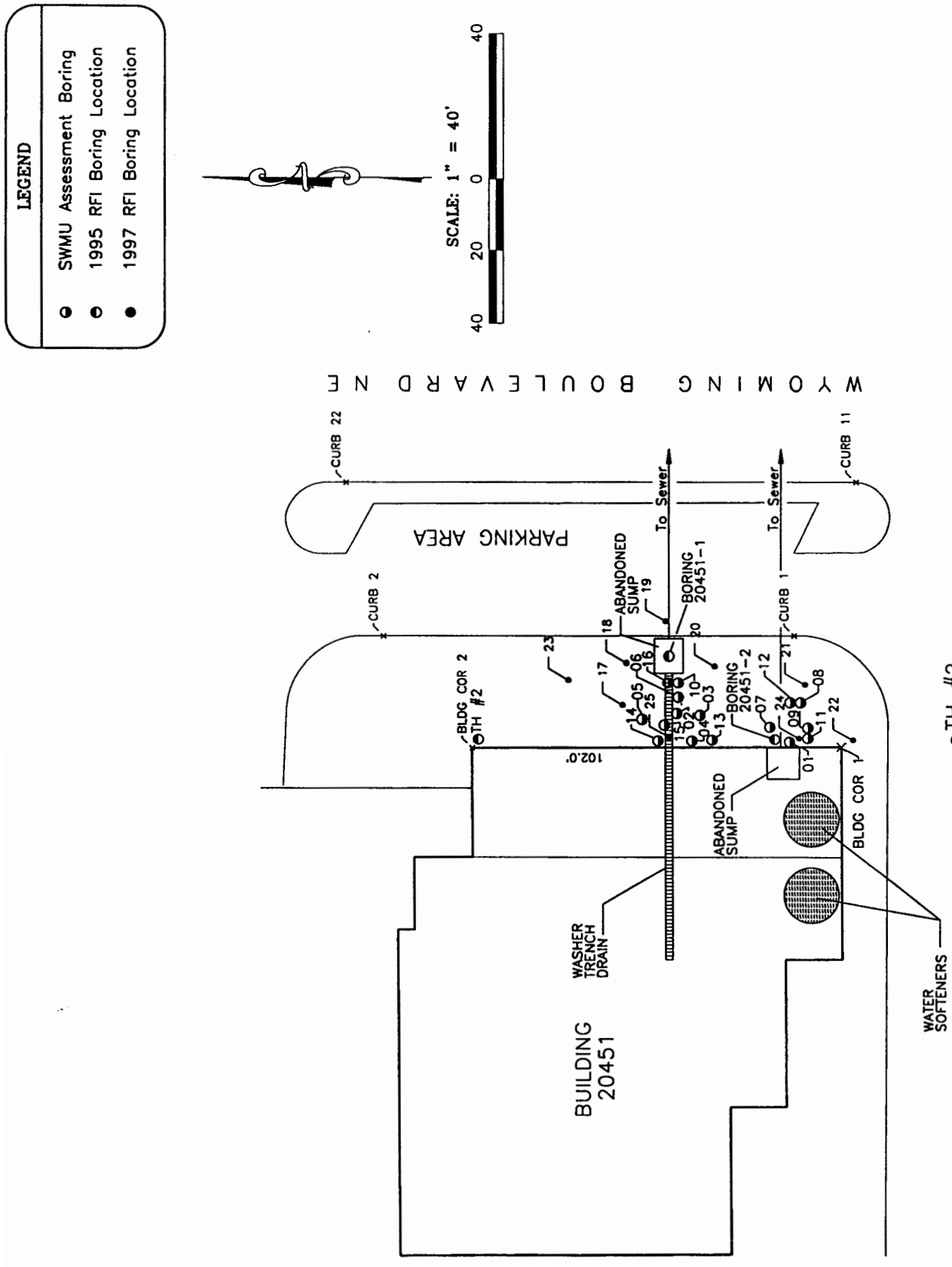


Figure 3-1. Boring Locations SWMU WP-58

### 3.1.2 SWMU Assessment Investigation

A SWMU assessment investigation was conducted to determine if hazardous constituents were released from the former sumps at the site. Concentrations of the SVOCs benzidine, benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, and ideno(1,2,3-cd)pyrene were detected in subsurface soils on the east side of the building (USAF, 1994) at concentrations in exceedance of the EPA Region 6 HHRB residential screening levels. The analytical results are summarized in Table 3-2, with only those compound concentrations that exceeded the method detection levels reported. Because of high naturally occurring arsenic concentrations in groundwater at the site, reportable arsenic concentrations are considered to be naturally occurring and not attributable to anthropogenic activities. Boring locations (20451-1 and 20451-2) are shown on Figure 3-1.

**Table 3-2. Summary of SWMU Assessment Study Reportable Analytical Results, SWMU WP-58**

| Chemical Class | Analyte | HHRB Screening Level | Borehole Number and Sample Depth Interval (Concentrations in mg/kg) | | | | |
|---|---|---|---|---|---|---|---|
| | | | *20451-1* | | *20451-2* | | |
| | | | 5-6 | 9-10 | 5-6 | 9-10 | 9-10[a] |
| SVOC | Acetone | 360 | ND | ND | 0.031 | ND | ND |
| | Naphthalene | 800 | 1.9 | 0.091 | ND | ND | ND |
| | 2-Methylnaphthalene | | 0.55 | ND | ND | ND | ND |
| | Acenapthylene | 360 | 1.9 | 0.098 | ND | ND | ND |
| | Chlorobenzene | | ND | ND | ND | 0.001 | ND |
| | Dibenzofuran | 1,300 | 0.85 | ND | ND | ND | ND |
| | Fluorene | 300 | 1.3 | 0.075 | ND | ND | ND |
| | Benzidine | 0.002 | **49[b]** | **3.0** | **0.28** | **1.3** | **0.20** |
| | Phenanthrene | N/A | 2.5 | 0.16 | ND | ND | ND |
| | Anthracene | 19.0 | 12.0 | 0.76 | 0.077 | ND | ND |
| | di-n-Butylphthalate | 6,500 | 0.39 | 0.16 | 0.35 | 1.4 | 0.12 |
| | Fluoranthane | 2,600 | 12.0 | 0.83 | 0.10 | ND | ND |
| | Pyrene | 2,000 | 11.0 | 0.75 | 0.088 | ND | ND |
| | Benzo(a)anthracene | 0.60 | **5.1** | 0.33 | < 0.37 | ND | ND |
| | Chrysene | 24.0 | 4.7 | 0.30 | ND | ND | ND |
| | bis(2-Ethylhexyl)phthalate | 32.0 | ND | 0.076 | ND | ND | ND |
| | Benzo(b)fluoranthene | 0.60 | **4.8** | 0.28 | ND | ND | ND |
| | Benzo(k)fluoranthene | 6.1 | 2.4 | 0.17 | ND | ND | ND |
| | Benzo(a)pyrene | 0.06 | **4.7** | **0.28** | ND | ND | ND |
| | Indeno(1,2,3-c,d)pyrene | 0.60 | **2.8** | 0.19 | ND | ND | ND |
| | Benzo(g,h,i)perylene | N/A | 3.0 | 0.20 | ND | ND | ND |
| INORGANIC | Arsenic[c] | 0.32[c] | **3.34** | **1.79** | **9.6** | **1.29** | **0.96** |
| | Barium | 5,300 | 135 | 166 | 914 | 121 | 101 |
| | Chromium | 210 | 4.0 | 7.4 | 3.45 | 8.9 | 9.8 |
| | Mercury | 23.0 | 0.47 | ND | ND | ND | ND |
| | Lead | 400 | ND | ND | ND | 7.4 | ND |

[a] Duplicate soil sample.
[b] Concentrations in excess of HHRB screening levels are shown bold and shaded.
[c] Arsenic concentrations are considered to be background concentrations rather than being attributable to anthropogenic activities at the site.

### 3.1.3 June 1995 RFI

An RFI conducted at the site in June 1995 identified 17 SVOCs in the surface and subsurface soils at the site (USAF, 1996). Four SVOCs were detected in soil samples at concentrations above EPA Region 6 residential HHRB screening levels. The analytical results are presented in Table 3-3, with only those compound concentrations that exceeded the method detection levels reported (USAF, 1996). The RFI boring locations (01 through 16) are shown on Figure 3-1. The SVOCs detected above HHRB screening levels and the concentration range of each compound, are also summarized below:

- benzo(a)anthracene (0.91 to 2.9 mg/kg) (HHRB residential screening level 0.6 mg/kg)
- benzo(a)pyrene (0.35 to 2.6 mg/kg) (HHRB residential screening level 0.06 mg/kg)
- benzo(b)fluoranthene (0.96 to 3 mg/kg) (HHRB residential screening level 0.6 mg/kg)
- indeno(1,2,3-c,d)pyrene (2.1 mg/kg) (HHRB residential screening level 0.6 mg/kg)

The remaining SVOCs were detected at concentrations below HHRB residential screening levels.

## 3.2 Field Investigation

The most recent field investigation program was designed to delineate the horizontal and vertical extent of contamination that has been identified at the site during previous investigations. Field activities included the advancement of nine boreholes with a direct-push drill rig (Geoprobe). Seven boreholes were drilled vertically (borings 17 through 23) and two boreholes were drilled at an angle (approximately 15 degrees from the vertical) beneath the building (borings 24 and 25). The RFI boring locations (17 through 25) are shown in Figure 3-1.

Four boreholes were drilled to 27 ft bgs to assess the horizontal and vertical extent of contamination attributable to the sump, which was previously located east of the building. Two boreholes were installed to 12 ft bgs to delineate the horizontal and vertical extent of areas of contamination identified in previous investigations. Two angled boreholes, borings 24 and 25, were installed to approximately 27 ft bgs under the building to assess potential contaminant releases that may have occurred from the main drain line and sump within the building. One borehole, boring 23, was installed to 27 ft bgs at a background location.

Samples were field-screened using a PID. If field-screening indicated the presence of contaminants at the intended maximum depth of the boring, sampling would have continued in 5-ft increments until two successive 5-ft intervals free of contaminants were collected. Field-screening did not indicate the presence of contamination and no borings had to be extended beyond the originally specified depth. In the 27-ft vertical boreholes, samples were collected at intervals of 10 to 12 ft, 15 to 17 ft, 20 to 22 ft, and 25 to 27 ft. In the angled boreholes, samples were collected at intervals of 5 to 7 ft, 10 to 12 ft, 15 to 17 ft, 20 to 22 ft, and 25 to 27 ft. In the 12-ft deep boreholes, samples were collected from 5 to 7 ft and 10 to 12 ft.

All samples were analyzed for SVOCs (EPA Method 8270) and target analyte list (TAL) metals (EPA Methods 6010 and 7471). In addition, the samples collected from the angled boreholes beneath the building were also analyzed for VOCs (EPA Method 8260).

## Table 3-3. Summary of 1995 RFI Reportable Analytical Results, SWMU WP-58, East Laundry (Building 20451) (WP-58)

| Chemical Class | Analyte | HHRB [1] Screening Level | Borehole Number and Sample Depth Interval (Concentrations in mg/kg) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *WP58-01* | | | | *WP58-03* | | | *WP58-04* | *WP58-05* | | |
| | | | 0-2 | 15-17 | 15-17 [2] | 25-27 | 0-5 | 5-7 | 15-17 | 0-5 | 0-5 | 15-17 | 25-27 |
| SVOC | Acenapthene | 360 | 0.87 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.44 | < 0.36 | < 0.34 | < 0.34 |
| | Anthracene | 19.0 | 1.5 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.82 | < 0.36 | < 0.34 | < 0.34 |
| | Benzo(a)anthracene | 0.60 | **2.9** [3] | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | **0.91** | < 0.36 | < 0.34 | < 0.34 |
| | Benzo(a)pyrene | 0.06 | **2.6** | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | **0.95** | < 0.36 | < 0.34 | < 0.34 |
| | Benzo(b)fluoranthene | 0.60 | **3.0** | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | **0.67** | < 0.36 | < 0.34 | < 0.34 |
| | Benzo(g,h,i)perylene | N/A | 2.6 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.66 | < 0.36 | < 0.34 | < 0.34 |
| | Benzo(k)fluoranthene | 6.1 | 1.0 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.75 | < 0.36 | < 0.34 | < 0.34 |
| | Chrysene | 24.0 | 2.9 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.92 | < 0.36 | < 0.34 | < 0.34 |
| | di-n-Butylphthalate | 6,500 | < 0.38 | < 0.34 | < 0.37 | < 0.34 | 0.42 | 0.54 | 2.2 | < 0.38 | 2.7 | 3.6 | 3.9 |
| | Dibenzofuran | 1,300 | 0.49 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.41 | < 0.36 | < 0.34 | < 0.34 |
| | Fluoranthane | 2,600 | 3.0 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 1.9 | < 0.36 | < 0.34 | < 0.34 |
| | Fluorene | 300 | 0.75 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.55 | < 0.36 | < 0.34 | < 0.34 |
| | Indeno(1,2,3-c,d)pyrene | 0.60 | **2.1** | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | **0.59** | < 0.36 | < 0.34 | < 0.34 |
| | Naphthalene | 800 | 0.65 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 0.99 | < 0.36 | < 0.34 | < 0.34 |
| | Phenanthrene | N/A | 3.0 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 2.2 | < 0.36 | < 0.34 | < 0.34 |
| | Phenol | 39,000 | 0.48 | < 0.34 | 0.39 | 0.37 | 0.41 | < 0.38 | 0.40 | <0.38 | < 0.36 | < 0.34 | < 0.34 |
| | Pyrene | 2,000 | 3.0 | < 0.34 | < 0.37 | < 0.34 | < 0.38 | < 0.38 | < 0.38 | 1.8 | < 0.36 | < 0.34 | < 0.34 |

| Chemical Class | Analyte | HHRB [1] Screening Level | Borehole Number and Sample Depth Interval (Concentrations in mg/kg) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *WP58-06* | *WP58-07* | | | *WP58-08* | *WP58-11* | *WP58-13* | *WP58-15* | *WP58-16* | |
| | | | 0-5 | 0-5 | 5-10 | 5-10 [2] | 0-2 | 0-5 | 0-5 | 0-5 | 0-5 | 0-5 [2] |
| SVOC | Acenapthene | 360 | < 0.38 | 0.37 | < 0.37 | < 0.38 | 0.45 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | < 0.37 |
| | Anthracene | 19.0 | 0.48 | 0.60 | < 0.37 | < 0.38 | 0.76 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | < 0.37 |
| | Benzo(a)anthracene | 0.60 | 0.60 | **1.2** | < 0.37 | < 0.38 | **1.1** | < 0.35 | < 0.39 | < 0.38 | < 0.39 | 0.60 |
| | Benzo(a)pyrene | 0.06 | **0.58** | **1.3** | < 0.37 | < 0.38 | **0.92** | **0.35** | < 0.39 | < 0.38 | < 0.39 | **0.78** |
| | Benzo(b)fluoranthene | 0.60 | 0.53 | **1.4** | < 0.37 | < 0.38 | **1.0** | 0.42 | < 0.39 | 0.41 | < 0.39 | **0.96** |
| | Benzo(g,h,i)perylene | N/A | 0.47 | 0.97 | < 0.37 | < 0.38 | 0.64 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | 0.54 |
| | Benzo(k)fluoranthene | 6.1 | 0.46 | 0.63 | < 0.37 | < 0.38 | 0.40 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | 0.39 |
| | Chrysene | 24.0 | 0.66 | 1.3 | < 0.37 | < 0.38 | 1.0 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | 0.61 |
| | di-n-Butylphthalate | 6,500 | <0.38 | < 0.36 | < 0.37 | < 0.38 | < 0.36 | < 0.35 | 0.52 | < 0.38 | < 0.39 | < 0.37 |
| | Dibenzofuran | 1,300 | < 0.38 | < 0.36 | < 0.37 | < 0.38 | < 0.36 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | < 0.37 |
| | Fluoranthane | 2,600 | 1.5 | 2.4 | 0.78 | 0.40 | 2.2 | 0.77 | < 0.39 | < 0.38 | < 0.39 | 1.3 |
| | Fluorene | 300 | < 0.38 | < 0.36 | < 0.37 | < 0.38 | 0.46 | < 0.35 | < 0.39 | 0.67 | < 0.39 | < 0.37 |
| | Indeno(1,2,3-c,d)pyrene | 0.60 | 0.40 | **0.79** | < 0.37 | < 0.38 | 0.53 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | 0.46 |
| | Naphthalene | 800 | < 0.38 | 0.48 | < 0.37 | < 0.38 | 0.38 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | < 0.37 |
| | Phenanthrene | N/A | 1.6 | 2.2 | 0.69 | < 0.38 | 2.1 | 0.64 | < 0.39 | 0.68 | < 0.39 | 0.79 |
| | Phenol | 39,000 | < 0.38 | < 0.36 | < 0.37 | < 0.38 | 0.60 | < 0.35 | < 0.39 | < 0.38 | < 0.39 | < 0.37 |
| | Pyrene | 2,000 | 1.3 | 2.4 | 0.72 | < 0.38 | 1.9 | 0.62 | < 0.39 | 0.56 | < 0.39 | 1.1 |

[1] Although concentrations exceed EPA Region 6 HHRB screening levels, the concentrations are considered to be the result of naturally occurring background concentrations and not attributable to anthropogenic activities. The ICM activities do not address these elevated metals concentrations.

[2] HHRB Screening Level—EPA Region 6 HHRB residential screening level.

[3] Concentrations in excess of HHRB screening levels are shown bold and shaded.

[4] J qualifier indicates estimated concentration.

## 3.3 1997 CH2M HILL RFI Results

Results from samples collected and analyzed during the 1997 RFI conducted by CH2M HILL at SWMU WP-58 are discussed below. The reportable analytical results, sorted by compound, are displayed in Table 3-4. The same data, sorted by sample location, are displayed in Table 3-5. Comprehensive summary tables are included in Appendix N. Chain-of-custody forms are presented in Appendix O. The memorandum discussing validation of the investigation data is presented in Appendix P.

### *3.3.1 Comparison to HHRB Screening Levels*

The data collected during this investigation included analytical results for VOCs, SVOCs, and TAL metals. Detected compound concentrations were compared to EPA Region 6 HHRB Media-Specific Screening Levels. As discussed in Section 1, for noncarcinogens, the screening values were lowered to 10 percent of the actual screening level value to account for possible additive effects related to exposure to multiple contaminants. Table 3-6 presents a summary of this comparison. A complete listing of the EPA Region 6 HHRB Media-Specific Screening Levels is presented in Appendix J.

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-25-2022 | Acetone | 0.016 | 0.011 |
| WP58-22-1517 | Aluminum | 2460 | 51.4 |
| WP58-20-1517 | Aluminum | 2650 | 52 |
| WP58-18-2022 | Aluminum | 3410 | 60.1 |
| WP58-23-2022BG | Aluminum | 3490 | 53.1 |
| WP58-23-1517BG | Aluminum | 3570 | 51.9 |
| WP58-23-2527BG | Aluminum | 3720 | 53.1 |
| WP58-24-1517 | Aluminum | 3730 | 59.7 |
| WP58-25-1012 | Aluminum | 3780 | 52.6 |
| WP58-25-0507 | Aluminum | 3840 | 58.8 |
| WP58-22-1012 | Aluminum | 3960 | 52.4 |
| WP58-22-2022 | Aluminum | 4130 | 51.3 |
| WP58-20-2022 | Aluminum | 4170 | 51.9 |
| WP58-21-2022 | Aluminum | 4400 | 52.4 |
| WP58-24-1012 | Aluminum | 4490 | 55.4 |
| WP58-18-2527 | Aluminum | 4680 | 56.9 |
| WP58-20-1012 | Aluminum | 4760 | 58.6 |
| WP58-20-2527 | Aluminum | 4780 | 55.3 |
| WP58-21-1517 | Aluminum | 5600 | 55.9 |
| WP58-18-2022FD | Aluminum | 5730 | 52.9 |
| WP58-22-2527 | Aluminum | 5750 | 54.8 |
| WP58-17-1012 | Aluminum | 5800 | 56.3 |
| WP58-24-2022 | Aluminum | 5830 | 54.6 |
| WP58-23-1012BG | Aluminum | 6290 | 56.9 |
| WP58-25-2022 | Aluminum | 6360 | 55.7 |
| WP58-19-1012 | Aluminum | 6370 | 56.9 |
| WP58-25-1517FD | Aluminum | 7420 | 56.6 |
| WP58-18-1517 | Aluminum | 7850 | 56.2 |
| WP58-24-2527 | Aluminum | 8030 | 56.4 |
| WP58-17-1012FD | Aluminum | 8370 | 57.7 |
| WP58-24-0507 | Aluminum | 8440 | 58.9 |
| WP58-18-1012 | Aluminum | 8650 | 57.5 |
| WP58-21-1012 | Aluminum | 9950 | 53.8 |
| WP58-25-1517 | Aluminum | 10600 | 56.1 |
| WP58-17-0507 | Aluminum | 11100 | 58.1 |
| WP58-21-2527 | Aluminum | 13100 | 55.9 |
| WP58-19-0507 | Aluminum | 13300 | 58.7 |
| WP58-24-2527FD | Aluminum | 13300 | 56 |
| WP58-25-2527 | Aluminum | 13700 | 55.1 |
| WP58-21-2022 | Arsenic | 1 | 0.52 |
| WP58-20-1517 | Arsenic | 1.1 | 0.52 |
| WP58-22-1517 | Arsenic | 1.1 | 0.51 |
| WP58-23-2022BG | Arsenic | 1.1 | 0.53 |
| WP58-22-1012 | Arsenic | 1.2 | 0.52 |
| WP58-23-1517BG | Arsenic | 1.4 | 0.52 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-18-2022 | Arsenic | 1.4 | 0.6 |
| WP58-18-2022FD | Arsenic | 1.5 | 0.53 |
| WP58-20-2022 | Arsenic | 1.6 | 0.52 |
| WP58-24-1517 | Arsenic | 1.7 | 0.6 |
| WP58-22-2022 | Arsenic | 1.7 | 0.51 |
| WP58-24-1012 | Arsenic | 1.9 | 0.55 |
| WP58-21-1517 | Arsenic | 2.1 | 0.56 |
| WP58-24-2022 | Arsenic | 2.1 | 0.55 |
| WP58-23-2527BG | Arsenic | 2.1 | 0.53 |
| WP58-20-1012 | Arsenic | 2.6 | 0.59 |
| WP58-20-2527 | Arsenic | 2.7 | 0.55 |
| WP58-25-1012 | Arsenic | 3.2 | 0.53 |
| WP58-22-2527 | Arsenic | 3.2 | 0.55 |
| WP58-25-1517 | Arsenic | 3.4 | 0.56 |
| WP58-23-1012BG | Arsenic | 3.5 | 0.57 |
| WP58-18-1517 | Arsenic | 3.6 | 0.56 |
| WP58-17-1012FD | Arsenic | 3.7 | 0.58 |
| WP58-25-1517FD | Arsenic | 3.8 | 0.57 |
| WP58-25-2022 | Arsenic | 3.9 | 0.56 |
| WP58-18-2527 | Arsenic | 3.9 | 0.57 |
| WP58-24-2527 | Arsenic | 4 | 0.56 |
| WP58-21-1012 | Arsenic | 4.4 | 0.54 |
| WP58-19-1012 | Arsenic | 4.6 | 0.57 |
| WP58-25-2527 | Arsenic | 4.6 | 0.55 |
| WP58-21-2527 | Arsenic | 4.8 | 0.56 |
| WP58-24-2527FD | Arsenic | 5.1 | 0.56 |
| WP58-18-1012 | Arsenic | 5.2 | 0.57 |
| WP58-17-1012 | Arsenic | 7.5 | 0.56 |
| WP58-19-0507 | Arsenic | 7.8 | 0.59 |
| WP58-25-0507 | Arsenic | 9 | 1.2 |
| WP58-17-0507 | Arsenic | 10 | 0.58 |
| WP58-24-0507 | Arsenic | 10.1 | 0.59 |
| WP58-22-1517 | Barium | 11.2 | 2.1 |
| WP58-20-1517 | Barium | 22.4 | 2.1 |
| WP58-22-1012 | Barium | 23.4 | 2.1 |
| WP58-23-2527 | Barium | 32.1 | 2.1 |
| WP58-24-1517 | Barium | 33.3 | 2.4 |
| WP58-22-2022 | Barium | 39.4 | 2.1 |
| WP58-21-2022 | Barium | 44.4 | 2.1 |
| WP58-24-2527 | Barium | 47.2 | 2.3 |
| WP58-23-1517 | Barium | 49.2 | 2.1 |
| WP58-18-1517 | Barium | 50.7 | 2.2 |
| WP58-21-2527 | Barium | 51.2 | 2.2 |
| WP58-18-2022 | Barium | 57.1 | 2.4 |
| WP58-23-2022 | Barium | 57.1 | 2.1 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-19-1012 | Barium | 61.3 | 2.3 |
| WP58-22-2527 | Barium | 64.4 | 2.2 |
| WP58-20-1012 | Barium | 77.7 | 2.3 |
| WP58-21-1517 | Barium | 79.9 | 2.2 |
| WP58-20-2022 | Barium | 83.3 | 2.1 |
| WP58-24-1012 | Barium | 93.5 | 2.2 |
| WP58-17-1012 | Barium | 94.8 | 2.3 |
| WP58-18-2022FD | Barium | 94.9 | 2.1 |
| WP58-24-2022 | Barium | 104 | 2.2 |
| WP58-25-1517FD | Barium | 124 | 2.3 |
| WP58-25-1517 | Barium | 140 | 2.2 |
| WP58-25-0507 | Barium | 146 | 2.4 |
| WP58-17-1012FD | Barium | 147 | 2.3 |
| WP58-25-2022 | Barium | 157 | 2.2 |
| WP58-18-1012 | Barium | 164 | 2.3 |
| WP58-21-1012 | Barium | 196 | 2.2 |
| WP58-20-2527 | Barium | 201 | 2.2 |
| WP58-18-2527 | Barium | 205 | 2.3 |
| WP58-24-0507 | Barium | 207 | 2.4 |
| WP58-25-1012 | Barium | 210 | 2.1 |
| WP58-23-1012 | Barium | 240 | 2.3 |
| WP58-25-2527 | Barium | 317 | 2.2 |
| WP58-19-0507 | Barium | 364 | 2.3 |
| WP58-24-2527FD | Barium | 587 | 2.2 |
| WP58-17-0507 | Barium | 1730 | 2.3 |
| WP58-18-2022FD | Beryllium | 0.36 | 0.32 |
| WP58-24-2527 | Beryllium | 0.36 | 0.34 |
| WP58-19-1012 | Beryllium | 0.37 | 0.34 |
| WP58-18-1517 | Beryllium | 0.37 | 0.34 |
| WP58-25-2022 | Beryllium | 0.37 | 0.33 |
| WP58-24-0507 | Beryllium | 0.39 | 0.35 |
| WP58-17-0507 | Beryllium | 0.41 | 0.35 |
| WP58-17-1012FD | Beryllium | 0.42 | 0.35 |
| WP58-18-1012 | Beryllium | 0.45 | 0.34 |
| WP58-25-1517FD | Beryllium | 0.46 | 0.34 |
| WP58-25-1517 | Beryllium | 0.48 | 0.34 |
| WP58-21-1012 | Beryllium | 0.5 | 0.32 |
| WP58-19-0507 | Beryllium | 0.51 | 0.35 |
| WP58-21-2527 | Beryllium | 0.57 | 0.34 |
| WP58-24-2527FD | Beryllium | 0.57 | 0.34 |
| WP58-25-2527 | Beryllium | 0.63 | 0.33 |
| WP58-22-1012 | bis(2-Ethylhexyl)phthalate | 2.6 | 0.35 |
| WP58-25-2022 | bis(2-Ethylhexyl)phthalate | 13 | 1.9 |
| WP58-21-2022 | Calcium | 12700 | 10.5 |
| WP58-20-1012 | Calcium | 13300 | 11.7 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-21-1517 | Calcium | 13800 | 11.2 |
| WP58-19-1012 | Calcium | 14400 | 11.4 |
| WP58-24-2022 | Calcium | 15700 | 10.9 |
| WP58-20-1517 | Calcium | 17700 | 10.4 |
| WP58-24-1012 | Calcium | 19900 | 11.1 |
| WP58-18-1517 | Calcium | 20300 | 11.2 |
| WP58-23-2527 | Calcium | 21400 | 10.6 |
| WP58-17-1012FD | Calcium | 23000 | 11.5 |
| WP58-23-1517 | Calcium | 23100 | 10.4 |
| WP58-25-2527 | Calcium | 25000 | 11 |
| WP58-25-1517FD | Calcium | 25300 | 11.3 |
| WP58-20-2022 | Calcium | 25300 | 10.4 |
| WP58-18-2022FD | Calcium | 26300 | 10.6 |
| WP58-21-2527 | Calcium | 27400 | 11.2 |
| WP58-23-1012 | Calcium | 27600 | 11.4 |
| WP58-25-1517 | Calcium | 27900 | 11.2 |
| WP58-25-2022 | Calcium | 28000 | 11.1 |
| WP58-24-2527 | Calcium | 30700 | 11.3 |
| WP58-23-2022 | Calcium | 30800 | 10.6 |
| WP58-17-1012 | Calcium | 33000 | 11.3 |
| WP58-21-1012 | Calcium | 33800 | 10.8 |
| WP58-25-1012 | Calcium | 36000 | 10.5 |
| WP58-22-2527 | Calcium | 36800 | 11 |
| WP58-22-2022 | Calcium | 38800 | 10.3 |
| WP58-20-2527 | Calcium | 40900 | 11.1 |
| WP58-18-2022 | Calcium | 41700 | 12 |
| WP58-24-2527FD | Calcium | 45100 | 11.2 |
| WP58-24-0507 | Calcium | 46300 | 11.8 |
| WP58-18-1012 | Calcium | 56100 | 11.5 |
| WP58-22-1517 | Calcium | 58700 | 10.3 |
| WP58-24-1517 | Calcium | 62100 | 11.9 |
| WP58-22-1012 | Calcium | 76300 | 10.5 |
| WP58-17-0507 | Calcium | 93600 | 11.6 |
| WP58-19-0507 | Calcium | 95600 | 11.7 |
| WP58-18-2527 | Calcium | 99500 | 11.4 |
| WP58-25-0507 | Calcium | 222000 | 118 |
| WP58-25-0507 | Chromium | 0.91 | 0.59 |
| WP58-18-2022 | Chromium | 1.9 | 0.6 |
| WP58-20-1517 | Chromium | 2.5 | 0.52 |
| WP58-25-1012 | Chromium | 2.8 | 0.53 |
| WP58-23-2022 | Chromium | 3.2 | 0.53 |
| WP58-21-2022 | Chromium | 3.6 | 0.52 |
| WP58-18-2527 | Chromium | 3.6 | 0.57 |
| WP58-22-1517 | Chromium | 3.7 | 0.51 |
| WP58-22-1012 | Chromium | 3.8 | 0.52 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-24-1517 | Chromium | 3.9 | 0.6 |
| WP58-20-2022 | Chromium | 3.9 | 0.52 |
| WP58-23-2527 | Chromium | 4.1 | 0.53 |
| WP58-24-1012 | Chromium | 4.2 | 0.55 |
| WP58-20-2527 | Chromium | 4.3 | 0.55 |
| WP58-22-2022 | Chromium | 4.4 | 0.51 |
| WP58-23-1517 | Chromium | 4.6 | 0.52 |
| WP58-22-2527 | Chromium | 4.9 | 0.55 |
| WP58-23-1012 | Chromium | 5.3 | 0.57 |
| WP58-21-1517 | Chromium | 5.5 | 0.56 |
| WP58-20-1012 | Chromium | 5.6 | 0.59 |
| WP58-25-2022 | Chromium | 5.9 | 0.56 |
| WP58-19-1012 | Chromium | 6.2 | 0.57 |
| WP58-24-2527 | Chromium | 6.2 | 0.56 |
| WP58-24-0507 | Chromium | 6.4 | 0.59 |
| WP58-25-1517FD | Chromium | 6.5 | 0.57 |
| WP58-18-1012 | Chromium | 6.7 | 0.57 |
| WP58-24-2022 | Chromium | 6.9 | 0.55 |
| WP58-18-1517 | Chromium | 7.1 | 0.56 |
| WP58-17-1012 | Chromium | 7.2 | 0.56 |
| WP58-17-1012FD | Chromium | 7.8 | 0.58 |
| WP58-17-0507 | Chromium | 8.3 | 0.58 |
| WP58-21-1012 | Chromium | 8.8 | 0.54 |
| WP58-19-0507 | Chromium | 9.8 | 0.59 |
| WP58-25-1517 | Chromium | 11.2 | 0.56 |
| WP58-25-2527 | Chromium | 11.4 | 0.55 |
| WP58-18-2022FD | Chromium | 11.5 | 0.53 |
| WP58-24-2527FD | Chromium | 11.7 | 0.56 |
| WP58-21-2527 | Chromium | 11.9 | 0.56 |
| WP58-18-2022FD | Cobalt | 9.7 | 7.4 |
| WP58-25-1012 | Copper | 8.2 | 6.3 |
| WP58-23-1517 | Copper | 9.3 | 6.2 |
| WP58-19-1012 | Copper | 9.4 | 6.8 |
| WP58-21-2022 | Copper | 10.3 | 6.3 |
| WP58-22-1012 | Copper | 10.4 | 6.3 |
| WP58-25-2022 | Copper | 11 | 6.7 |
| WP58-24-2527FD | Copper | 12 | 6.7 |
| WP58-20-2022 | Copper | 12.4 | 6.2 |
| WP58-25-1517FD | Copper | 13.2 | 6.8 |
| WP58-25-2527 | Copper | 13.2 | 6.6 |
| WP58-18-1012 | Copper | 14.5 | 6.9 |
| WP58-24-0507 | Copper | 16.5 | 7.1 |
| WP58-24-2527 | Copper | 16.9 | 6.8 |
| WP58-19-0507 | Copper | 18.4 | 7 |
| WP58-22-2022 | Copper | 19.7 | 6.2 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-18-2022 | Copper | 22.4 | 7.2 |
| WP58-25-1517 | Copper | 23 | 6.7 |
| WP58-24-1517 | Copper | 23.9 | 7.2 |
| WP58-24-1012 | Copper | 27 | 6.6 |
| WP58-20-1012 | Copper | 28.9 | 7 |
| WP58-23-2527 | Copper | 33.8 | 6.4 |
| WP58-21-1517 | Copper | 34.9 | 6.7 |
| WP58-24-2022 | Copper | 35.2 | 6.6 |
| WP58-18-1517 | Copper | 42.1 | 6.7 |
| WP58-18-2022FD | Copper | 44.2 | 6.3 |
| WP58-22-1517 | Copper | 44.5 | 6.2 |
| WP58-17-0507 | Copper | 45.1 | 7 |
| WP58-23-1012 | Copper | 47.3 | 6.8 |
| WP58-21-2527 | Copper | 49 | 6.7 |
| WP58-21-1012 | Copper | 51.9 | 6.5 |
| WP58-22-2527 | Copper | 58.4 | 6.6 |
| WP58-25-0507 | Copper | 60.8 | 7.1 |
| WP58-18-2527 | Copper | 63.9 | 6.8 |
| WP58-20-2527 | Copper | 64.9 | 6.6 |
| WP58-20-1517 | Copper | 87.7 | 6.2 |
| WP58-17-1012FD | Copper | 91.1 | 6.9 |
| WP58-23-2022 | Copper | 134 | 6.4 |
| WP58-17-1012 | Copper | 262 | 6.8 |
| WP58-25-0507 | Iron | 2470 | 8.2 |
| WP58-22-1517 | Iron | 5110 | 7.2 |
| WP58-20-1517 | Iron | 5130 | 7.3 |
| WP58-22-1012 | Iron | 5660 | 7.3 |
| WP58-25-1012 | Iron | 7010 | 7.4 |
| WP58-23-2527 | Iron | 7060 | 7.4 |
| WP58-18-2527 | Iron | 7340 | 8 |
| WP58-18-2022 | Iron | 7670 | 8.4 |
| WP58-23-2022 | Iron | 8010 | 7.4 |
| WP58-23-1012 | Iron | 8160 | 8 |
| WP58-24-1517 | Iron | 8200 | 8.4 |
| WP58-21-2022 | Iron | 8670 | 7.3 |
| WP58-22-2527 | Iron | 9130 | 7.7 |
| WP58-24-0507 | Iron | 9640 | 8.2 |
| WP58-18-1012 | Iron | 9700 | 8 |
| WP58-20-1012 | Iron | 9700 | 8.2 |
| WP58-20-2527 | Iron | 9930 | 7.7 |
| WP58-19-1012 | Iron | 10100 | 8 |
| WP58-17-0507 | Iron | 10300 | 8.1 |
| WP58-17-1012 | Iron | 10700 | 7.9 |
| WP58-20-2022 | Iron | 10700 | 7.3 |
| WP58-24-2527 | Iron | 10700 | 7.9 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-18-1517 | Iron | 11100 | 7.9 |
| WP58-24-2022 | Iron | 11200 | 7.6 |
| WP58-25-2022 | Iron | 11200 | 7.8 |
| WP58-24-1012 | Iron | 11500 | 7.8 |
| WP58-25-1517FD | Iron | 11500 | 7.9 |
| WP58-19-0507 | Iron | 11900 | 8.2 |
| WP58-23-1517 | Iron | 12400 | 7.3 |
| WP58-21-1517 | Iron | 13000 | 7.8 |
| WP58-17-1012FD | Iron | 13100 | 8.1 |
| WP58-22-2022 | Iron | 13300 | 7.2 |
| WP58-21-1012 | Iron | 14100 | 7.5 |
| WP58-24-2527FD | Iron | 15800 | 7.8 |
| WP58-25-2527 | Iron | 15800 | 7.7 |
| WP58-21-2527 | Iron | 17100 | 7.8 |
| WP58-25-1517 | Iron | 17300 | 7.8 |
| WP58-18-2022FD | Iron | 31500 | 7.4 |
| WP58-25-0507 | Lead | 2.5 | 0.59 |
| WP58-21-2022 | Lead | 2.6 | 0.52 |
| WP58-20-1517 | Lead | 2.7 | 0.52 |
| WP58-23-1517 | Lead | 2.8 | 0.52 |
| WP58-23-2022 | Lead | 2.9 | 0.53 |
| WP58-22-1517 | Lead | 3 | 0.51 |
| WP58-24-2022 | Lead | 3.1 | 0.55 |
| WP58-18-2022 | Lead | 3.3 | 0.6 |
| WP58-22-1012 | Lead | 3.7 | 0.52 |
| WP58-20-2022 | Lead | 3.8 | 0.52 |
| WP58-24-1517 | Lead | 3.9 | 0.6 |
| WP58-24-1012 | Lead | 4 | 0.55 |
| WP58-18-2022FD | Lead | 4 | 0.53 |
| WP58-18-2527 | Lead | 4 | 0.57 |
| WP58-23-2527 | Lead | 4.1 | 0.53 |
| WP58-21-1517 | Lead | 4.3 | 0.56 |
| WP58-20-2527 | Lead | 4.4 | 0.55 |
| WP58-23-1012 | Lead | 4.5 | 0.57 |
| WP58-20-1012 | Lead | 5 | 0.59 |
| WP58-22-2527 | Lead | 5.4 | 0.55 |
| WP58-18-1012 | Lead | 5.5 | 0.57 |
| WP58-25-1012 | Lead | 5.5 | 0.53 |
| WP58-18-1517 | Lead | 5.5 | 0.56 |
| WP58-24-2527 | Lead | 5.5 | 0.56 |
| WP58-24-0507 | Lead | 5.8 | 0.59 |
| WP58-17-0507 | Lead | 6 | 0.58 |
| WP58-19-0507 | Lead | 6 | 0.59 |
| WP58-22-2022 | Lead | 6.7 | 0.51 |
| WP58-17-1012FD | Lead | 7.1 | 0.58 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-19-1012 | Lead | 7.2 | 0.57 |
| WP58-25-1517 | Lead | 7.3 | 0.56 |
| WP58-21-1012 | Lead | 7.4 | 0.54 |
| WP58-25-2022 | Lead | 7.5 | 0.56 |
| WP58-25-1517FD | Lead | 7.7 | 0.57 |
| WP58-24-2527FD | Lead | 7.7 | 0.56 |
| WP58-21-2527 | Lead | 8.2 | 0.56 |
| WP58-17-1012 | Lead | 8.4 | 0.56 |
| WP58-25-2527 | Lead | 8.7 | 0.55 |
| WP58-22-1517 | Magnesium | 1610 | 30.9 |
| WP58-20-1517 | Magnesium | 1920 | 31.2 |
| WP58-23-1517 | Magnesium | 2040 | 31.1 |
| WP58-22-1012 | Magnesium | 2220 | 31.4 |
| WP58-23-2022 | Magnesium | 2380 | 31.8 |
| WP58-18-2022 | Magnesium | 2470 | 36.1 |
| WP58-18-2527 | Magnesium | 2600 | 34.2 |
| WP58-24-2527 | Magnesium | 2610 | 33.9 |
| WP58-21-2022 | Magnesium | 2620 | 31.4 |
| WP58-23-2527 | Magnesium | 2710 | 31.8 |
| WP58-25-1012 | Magnesium | 2750 | 31.6 |
| WP58-20-2022 | Magnesium | 2790 | 31.1 |
| WP58-20-1012 | Magnesium | 2960 | 35.2 |
| WP58-24-1517 | Magnesium | 2990 | 35.8 |
| WP58-22-2022 | Magnesium | 3010 | 30.8 |
| WP58-17-1012 | Magnesium | 3030 | 33.8 |
| WP58-22-2527 | Magnesium | 3170 | 32.9 |
| WP58-18-2022FD | Magnesium | 3220 | 31.7 |
| WP58-24-1012 | Magnesium | 3230 | 33.2 |
| WP58-18-1517 | Magnesium | 3340 | 33.7 |
| WP58-23-1012 | Magnesium | 3350 | 34.1 |
| WP58-21-1517 | Magnesium | 3400 | 33.5 |
| WP58-20-2527 | Magnesium | 3690 | 33.2 |
| WP58-19-1012 | Magnesium | 4380 | 34.1 |
| WP58-21-2527 | Magnesium | 4600 | 33.6 |
| WP58-25-1517FD | Magnesium | 4710 | 34 |
| WP58-24-2022 | Magnesium | 4780 | 32.8 |
| WP58-25-2022 | Magnesium | 4810 | 33.4 |
| WP58-24-2527FD | Magnesium | 4810 | 33.6 |
| WP58-25-1517 | Magnesium | 4840 | 33.6 |
| WP58-17-1012FD | Magnesium | 4870 | 34.6 |
| WP58-18-1012 | Magnesium | 5050 | 34.5 |
| WP58-24-0507 | Magnesium | 5070 | 35.3 |
| WP58-21-1012 | Magnesium | 5770 | 32.3 |
| WP58-25-2527 | Magnesium | 5990 | 33.1 |
| WP58-17-0507 | Magnesium | 6090 | 34.8 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-19-0507 | Magnesium | 7110 | 35.2 |
| WP58-25-0507 | Magnesium | 8320 | 35.3 |
| WP58-25-0507 | Manganese | 29.1 | 2.4 |
| WP58-18-2527 | Manganese | 86.4 | 2.3 |
| WP58-23-1012 | Manganese | 114 | 2.3 |
| WP58-20-1517 | Manganese | 114 | 2.1 |
| WP58-24-2527 | Manganese | 122 | 2.3 |
| WP58-22-1012 | Manganese | 123 | 2.1 |
| WP58-20-2527 | Manganese | 126 | 2.2 |
| WP58-18-1517 | Manganese | 141 | 2.2 |
| WP58-17-0507 | Manganese | 143 | 2.3 |
| WP58-22-2527 | Manganese | 149 | 2.2 |
| WP58-18-1012 | Manganese | 152 | 2.3 |
| WP58-23-2527 | Manganese | 154 | 2.1 |
| WP58-24-0507 | Manganese | 159 | 2.4 |
| WP58-17-1012 | Manganese | 166 | 2.3 |
| WP58-22-1517 | Manganese | 180 | 2.1 |
| WP58-18-2022 | Manganese | 181 | 2.4 |
| WP58-20-1012 | Manganese | 184 | 2.3 |
| WP58-19-0507 | Manganese | 188 | 2.3 |
| WP58-19-1012 | Manganese | 189 | 2.3 |
| WP58-21-2022 | Manganese | 194 | 2.1 |
| WP58-20-2022 | Manganese | 207 | 2.1 |
| WP58-24-2022 | Manganese | 207 | 2.2 |
| WP58-21-2527 | Manganese | 215 | 2.2 |
| WP58-24-2527FD | Manganese | 220 | 2.2 |
| WP58-24-1012 | Manganese | 224 | 2.2 |
| WP58-17-1012FD | Manganese | 231 | 2.3 |
| WP58-18-2022FD | Manganese | 232 | 2.1 |
| WP58-25-2022 | Manganese | 236 | 2.2 |
| WP58-21-1517 | Manganese | 246 | 2.2 |
| WP58-25-1517 | Manganese | 252 | 2.2 |
| WP58-25-2527 | Manganese | 253 | 2.2 |
| WP58-22-2022 | Manganese | 258 | 2.1 |
| WP58-25-1517FD | Manganese | 268 | 2.3 |
| WP58-24-1517 | Manganese | 273 | 2.4 |
| WP58-21-1012 | Manganese | 276 | 2.2 |
| WP58-23-2022 | Manganese | 284 | 2.1 |
| WP58-23-1517 | Manganese | 286 | 2.1 |
| WP58-25-1012 | Manganese | 401 | 2.1 |
| WP58-24-2022 | Potassium | 605 | 546 |
| WP58-20-1517 | Potassium | 615 | 520 |
| WP58-18-2527 | Potassium | 657 | 569 |
| WP58-24-1517 | Potassium | 660 | 597 |
| WP58-23-2527 | Potassium | 701 | 531 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-22-1012 | Potassium | 742 | 524 |
| WP58-23-1517 | Potassium | 743 | 519 |
| WP58-22-2022 | Potassium | 818 | 513 |
| WP58-18-2022 | Potassium | 831 | 601 |
| WP58-20-2527 | Potassium | 928 | 553 |
| WP58-23-1012 | Potassium | 987 | 569 |
| WP58-23-2022 | Potassium | 1020 | 531 |
| WP58-19-1012 | Potassium | 1040 | 569 |
| WP58-22-2527 | Potassium | 1040 | 548 |
| WP58-21-2022 | Potassium | 1060 | 524 |
| WP58-25-1012 | Potassium | 1070 | 526 |
| WP58-17-1012 | Potassium | 1200 | 563 |
| WP58-20-2022 | Potassium | 1230 | 519 |
| WP58-18-2022FD | Potassium | 1240 | 529 |
| WP58-24-2527 | Potassium | 1250 | 564 |
| WP58-20-1012 | Potassium | 1260 | 586 |
| WP58-24-0507 | Potassium | 1330 | 589 |
| WP58-18-1012 | Potassium | 1390 | 575 |
| WP58-17-1012FD | Potassium | 1520 | 577 |
| WP58-25-2022 | Potassium | 1520 | 557 |
| WP58-18-1517 | Potassium | 1590 | 562 |
| WP58-24-1012 | Potassium | 1680 | 554 |
| WP58-21-1517 | Potassium | 1750 | 559 |
| WP58-17-0507 | Potassium | 1760 | 581 |
| WP58-25-1517FD | Potassium | 1760 | 566 |
| WP58-19-0507 | Potassium | 1850 | 587 |
| WP58-21-1012 | Potassium | 1870 | 538 |
| WP58-21-2527 | Potassium | 2250 | 559 |
| WP58-25-1517 | Potassium | 2270 | 561 |
| WP58-25-2527 | Potassium | 2290 | 551 |
| WP58-24-2527FD | Potassium | 2400 | 560 |
| WP58-22-1517 | Sodium | 157 | 30.9 |
| WP58-20-1517 | Sodium | 162 | 31.2 |
| WP58-22-2022 | Sodium | 163 | 30.8 |
| WP58-23-2022 | Sodium | 165 | 31.8 |
| WP58-23-1517 | Sodium | 169 | 31.1 |
| WP58-20-2022 | Sodium | 169 | 31.1 |
| WP58-23-2527 | Sodium | 169 | 31.8 |
| WP58-25-1012 | Sodium | 171 | 31.6 |
| WP58-21-2022 | Sodium | 173 | 31.4 |
| WP58-22-1012 | Sodium | 176 | 31.4 |
| WP58-18-2022 | Sodium | 188 | 36.1 |
| WP58-22-2527 | Sodium | 191 | 32.9 |
| WP58-18-2022FD | Sodium | 192 | 31.7 |
| WP58-20-2527 | Sodium | 193 | 33.2 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-23-1012 | Sodium | 198 | 34.1 |
| WP58-18-1517 | Sodium | 205 | 33.7 |
| WP58-19-1012 | Sodium | 206 | 34.1 |
| WP58-20-1012 | Sodium | 208 | 35.2 |
| WP58-21-1517 | Sodium | 209 | 33.5 |
| WP58-18-2527 | Sodium | 211 | 34.2 |
| WP58-25-1517FD | Sodium | 212 | 34 |
| WP58-17-1012 | Sodium | 215 | 33.8 |
| WP58-24-1012 | Sodium | 219 | 33.2 |
| WP58-25-2022 | Sodium | 221 | 33.4 |
| WP58-17-1012FD | Sodium | 225 | 34.6 |
| WP58-24-1517 | Sodium | 228 | 35.8 |
| WP58-25-1517 | Sodium | 239 | 33.6 |
| WP58-21-2527 | Sodium | 239 | 33.6 |
| WP58-25-0507 | Sodium | 248 | 35.3 |
| WP58-19-0507 | Sodium | 259 | 35.2 |
| WP58-17-0507 | Sodium | 263 | 34.8 |
| WP58-18-1012 | Sodium | 267 | 34.5 |
| WP58-21-1012 | Sodium | 268 | 32.3 |
| WP58-24-2022 | Sodium | 273 | 32.8 |
| WP58-24-0507 | Sodium | 276 | 35.3 |
| WP58-24-2527 | Sodium | 341 | 33.9 |
| WP58-24-2527FD | Sodium | 373 | 33.6 |
| WP58-25-2527 | Sodium | 699 | 33.1 |
| WP58-23-1012 | Thallium | 0.11 | 0.11 |
| WP58-20-2022 | Thallium | 0.11 | 0.1 |
| WP58-17-0507 | Thallium | 0.12 | 0.12 |
| WP58-24-1012 | Thallium | 0.12 | 0.11 |
| WP58-25-1517 | Thallium | 0.12 | 0.11 |
| WP58-18-2022 | Thallium | 0.12 | 0.12 |
| WP58-18-2022FD | Thallium | 0.12 | 0.11 |
| WP58-22-2527 | Thallium | 0.12 | 0.11 |
| WP58-23-2527 | Thallium | 0.12 | 0.11 |
| WP58-18-1012 | Thallium | 0.13 | 0.11 |
| WP58-18-1517 | Thallium | 0.13 | 0.11 |
| WP58-17-1012 | Thallium | 0.15 | 0.11 |
| WP58-20-1012 | Thallium | 0.15 | 0.12 |
| WP58-24-0507 | Thallium | 0.16 | 0.12 |
| WP58-19-1012 | Thallium | 0.17 | 0.11 |
| WP58-25-1012 | Thallium | 0.17 | 0.11 |
| WP58-21-1012 | Thallium | 0.18 | 0.11 |
| WP58-25-1517FD | Thallium | 0.18 | 0.11 |
| WP58-21-2527 | Thallium | 0.18 | 0.11 |
| WP58-24-2527FD | Thallium | 0.18 | 0.11 |
| WP58-25-2022 | Thallium | 0.19 | 0.11 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-25-2527 | Thallium | 0.19 | 0.11 |
| WP58-17-1012FD | Thallium | 0.2 | 0.12 |
| WP58-20-1517 | Vanadium | 9.4 | 8.3 |
| WP58-22-1517 | Vanadium | 9.9 | 8.2 |
| WP58-22-1012 | Vanadium | 10.5 | 8.4 |
| WP58-18-2022 | Vanadium | 11.2 | 9.6 |
| WP58-25-0507 | Vanadium | 13.1 | 9.4 |
| WP58-25-1012 | Vanadium | 13.2 | 8.4 |
| WP58-23-2527 | Vanadium | 13.5 | 8.5 |
| WP58-23-2022 | Vanadium | 14.3 | 8.5 |
| WP58-21-2022 | Vanadium | 15 | 8.4 |
| WP58-18-2527 | Vanadium | 16.1 | 9.1 |
| WP58-20-1012 | Vanadium | 16.9 | 9.4 |
| WP58-19-1012 | Vanadium | 17.3 | 9.1 |
| WP58-24-1517 | Vanadium | 17.4 | 9.5 |
| WP58-25-2022 | Vanadium | 19 | 8.9 |
| WP58-24-1012 | Vanadium | 19.2 | 8.9 |
| WP58-20-2022 | Vanadium | 19.2 | 8.3 |
| WP58-22-2527 | Vanadium | 19.3 | 8.8 |
| WP58-20-2527 | Vanadium | 20.2 | 8.8 |
| WP58-23-1517 | Vanadium | 20.5 | 8.3 |
| WP58-18-1517 | Vanadium | 20.6 | 9 |
| WP58-25-1517FD | Vanadium | 20.6 | 9.1 |
| WP58-24-2527 | Vanadium | 21.5 | 9 |
| WP58-22-2022 | Vanadium | 21.7 | 8.2 |
| WP58-23-1012 | Vanadium | 22.2 | 9.1 |
| WP58-21-1517 | Vanadium | 22.7 | 8.9 |
| WP58-17-1012 | Vanadium | 24.6 | 9 |
| WP58-21-1012 | Vanadium | 25.7 | 8.6 |
| WP58-24-2022 | Vanadium | 25.8 | 8.7 |
| WP58-25-2527 | Vanadium | 30 | 8.8 |
| WP58-17-1012FD | Vanadium | 30.7 | 9.2 |
| WP58-18-1012 | Vanadium | 30.9 | 9.2 |
| WP58-24-2527FD | Vanadium | 32.2 | 9 |
| WP58-25-1517 | Vanadium | 33.9 | 9 |
| WP58-21-2527 | Vanadium | 34.5 | 8.9 |
| WP58-17-0507 | Vanadium | 41.9 | 9.3 |
| WP58-24-0507 | Vanadium | 43.7 | 9.4 |
| WP58-19-0507 | Vanadium | 49.3 | 9.4 |
| WP58-18-2022FD | Vanadium | 57.7 | 8.5 |
| WP58-25-1012 | Zinc | 19 | 2.1 |
| WP58-22-1012 | Zinc | 19.1 | 2.1 |
| WP58-23-1517 | Zinc | 19.6 | 2.1 |
| WP58-21-2022 | Zinc | 22.7 | 2.1 |
| WP58-24-2527 | Zinc | 24.9 | 2.3 |

**Table 3-4. Reportable RFI Analytical Data for SWMU WP-58 by Analyte (Continued)**

| Sample No. | Analyte | Concentration (mg/kg) | Detection Limit (mg/kg) |
|---|---|---|---|
| WP58-24-1517 | Zinc | 25.9 | 2.4 |
| WP58-20-2022 | Zinc | 27.8 | 2.1 |
| WP58-22-2022 | Zinc | 28.6 | 2.1 |
| WP58-19-1012 | Zinc | 30 | 2.3 |
| WP58-24-0507 | Zinc | 30.1 | 2.4 |
| WP58-24-2527FD | Zinc | 31.2 | 2.2 |
| WP58-19-0507 | Zinc | 32.4 | 2.3 |
| WP58-25-2022 | Zinc | 32.8 | 2.2 |
| WP58-22-2527 | Zinc | 33.5 | 2.2 |
| WP58-25-1517FD | Zinc | 34.5 | 2.3 |
| WP58-18-1012 | Zinc | 34.6 | 2.3 |
| WP58-24-2022 | Zinc | 35.8 | 2.2 |
| WP58-22-1517 | Zinc | 37.3 | 2.1 |
| WP58-18-2022FD | Zinc | 37.6 | 2.1 |
| WP58-24-1012 | Zinc | 37.7 | 2.2 |
| WP58-18-2022 | Zinc | 37.8 | 2.4 |
| WP58-25-1517 | Zinc | 38.2 | 2.2 |
| WP58-23-2527 | Zinc | 38.2 | 2.1 |
| WP58-21-1517 | Zinc | 39.7 | 2.2 |
| WP58-20-1517 | Zinc | 40.2 | 2.1 |
| WP58-18-1517 | Zinc | 41.7 | 2.2 |
| WP58-25-2527 | Zinc | 42 | 2.2 |
| WP58-20-1012 | Zinc | 44.1 | 2.3 |
| WP58-23-1012 | Zinc | 47.4 | 2.3 |
| WP58-25-0507 | Zinc | 48 | 2.4 |
| WP58-20-2527 | Zinc | 49.9 | 2.2 |
| WP58-17-0507 | Zinc | 50.4 | 2.3 |
| WP58-21-1012 | Zinc | 51.6 | 2.2 |
| WP58-21-2527 | Zinc | 52.5 | 2.2 |
| WP58-18-2527 | Zinc | 55.7 | 2.3 |
| WP58-23-2022 | Zinc | 81.9 | 2.1 |
| WP58-17-1012FD | Zinc | 122 | 2.3 |
| WP58-17-1012 | Zinc | 127 | 2.3 |

[a] Sample number formats are the site (WP-58)- the boring number (NN)- and the depth interval in feet that the sample was collected from (NN-NN). Samples with BG are background and FD are duplicates

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**Table 3-5. Reportable RFI Analytical Data for SWMU WP-58 by Sample Location**

| Analyte | Boring Number and Sample Interval (ft bgs) Analyte Concentrations in mg/kg | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17 | | | 18 | | | | | 19 | | 20 | | | | 21 | | | | 22 |
| | 5 to 7 | 10 to 12 | 10 to 12FD[a] | 10 to 12 | 15 to 17 | 20 to 22 | 20 to 22FD | 25 to 27 | 5 to 7 | 10 to 12 | 10 to 12 | 15 to 17 | 20 to 22 | 25 to 27 | 10 to 12 | 15 to 17 | 20 to 22 | 25 to 27 | 10 to 12 |
| Acetone | ND[b] | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) phthalate | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.6 |
| Aluminum | 11100 | 5800 | 8370 | 8650 | 7850 | 3410 | 5730 | 4680 | 13300 | 6370 | 4760 | 2650 | 4170 | 4780 | 9950 | 5600 | 4400 | 13100 | 3960 |
| Arsenic | 10 | 7.5 | 3.7 | 5.2 | 3.6 | 1.4 | 1.5 | 3.9 | 7.8 | 4.6 | 2.6 | 1.1 | 1.6 | 2.7 | 4.4 | 2.1 | 1 | 4.8 | 1.2 |
| Barium | 1730 | 94.8 | 147 | 164 | 50.7 | 57.1 | 94.9 | 205 | 364 | 61.3 | 77.7 | 22.4 | 83.3 | 201 | 196 | 79.9 | 44.4 | 51.2 | 23.4 |
| Beryllium | 0.41 | ND | 0.42 | 0.45 | 0.37 | ND | 0.36 | ND | 0.51 | 0.37 | ND | ND | ND | ND | 0.5 | ND | ND | 0.57 | ND |
| Calcium | 93600 | 33000 | 23000 | 56100 | 20300 | 41700 | 26300 | 99500 | 95600 | 14400 | 13300 | 17700 | 25300 | 40900 | 33800 | 13800 | 12700 | 27400 | 76300 |
| Chromium | 8.3 | 7.2 | 7.8 | 6.7 | 7.1 | 1.9 | 11.5 | 3.6 | 9.8 | 6.2 | 5.6 | 2.5 | 3.9 | 4.3 | 8.8 | 5.5 | 3.6 | 11.9 | 3.8 |
| Cobalt | ND | ND | ND | ND | ND | ND | 9.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 45.1 | 262 | 91.1 | 14.5 | 42.1 | 22.4 | 44.2 | 63.9 | 18.4 | 9.4 | 28.9 | 87.7 | 12.4 | 64.9 | 51.9 | 34.9 | 10.3 | 49 | 10.4 |
| Iron | 10300 | 10700 | 13100 | 9700 | 11100 | 7670 | 31500 | 7340 | 11900 | 10100 | 9700 | 5130 | 10700 | 9930 | 14100 | 13000 | 8670 | 17100 | 5660 |
| Lead | 6 | 8.4 | 7.1 | 5.5 | 5.5 | 3.3 | 4 | 4 | 6 | 7.2 | 5 | 2.7 | 3.8 | 4.4 | 7.4 | 4.3 | 2.6 | 8.2 | 3.7 |
| Magnesium | 6090 | 3030 | 4870 | 5050 | 3340 | 2470 | 3220 | 2600 | 7110 | 4380 | 2960 | 1920 | 2790 | 3690 | 5770 | 3400 | 2620 | 4600 | 2220 |
| Manganese | 143 | 166 | 231 | 152 | 141 | 181 | 232 | 86.4 | 188 | 189 | 184 | 114 | 207 | 126 | 276 | 246 | 194 | 215 | 123 |
| Potassium | 1760 | 1200 | 1520 | 1390 | 1590 | 831 | 1240 | 657 | 1850 | 1040 | 1260 | 615 | 1230 | 928 | 1870 | 1750 | 1060 | 2250 | 742 |
| Sodium | 263 | 215 | 225 | 267 | 205 | 188 | 192 | 211 | 259 | 206 | 208 | 162 | 169 | 193 | 268 | 209 | 173 | 239 | 176 |
| Thallium | 0.12 | 0.15 | 0.2 | 0.13 | 0.13 | 0.12 | 0.12 | ND | ND | 0.17 | 0.15 | ND | 0.11 | ND | 0.18 | ND | ND | 0.18 | ND |
| Vanadium | 41.9 | 24.6 | 30.7 | 30.9 | 20.6 | 11.2 | 57.7 | 16.1 | 49.3 | 17.3 | 16.9 | 9.4 | 19.2 | 20.2 | 25.7 | 22.7 | 15 | 34.5 | 10.5 |
| Zinc | 50.4 | 127 | 122 | 34.6 | 41.7 | 37.8 | 37.6 | 55.7 | 32.4 | 30 | 44.1 | 40.2 | 27.8 | 49.9 | 51.6 | 39.7 | 22.7 | 52.5 | 19.1 |

[a] Samples designated FD are duplicate samples

[b] ND indicates that the analyte was not detected above the analytical method detection limit.

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**Table 3-5. Reportable RFI Analytical Data for SWMU WP-58 by Sample Location (Continued)**

| Analyte | Boring Number and Sample Interval (ft bgs) Analyte Concentrations in mg/kg | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 22 | | | 23 | | | | 24 | | | | | | 25 | | | | | |
| | 15 to 17 | 20 to 22 | 25 to 27 | 10 to 12 | 15 to 17 | 20 to 22 | 25 to 27 | 5 to 7 | 10 to 12 | 15 to 17 | 20 to 22 | 25 to 27 | 25 to 27FD | 5 to 7 | 10 to 12 | 15 to 17 | 15 to 17FD | 20 to 22 | 25 to 27 |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.016 | ND |
| Bis(2-ethylhexyl) phthalate | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 13 | ND |
| Aluminum | 2460 | 4130 | 5750 | 6290 | 3570 | 3490 | 3720 | 8440 | 4490 | 3730 | 5830 | 8030 | 13300 | 3840 | 3780 | 10600 | 7420 | 6360 | 13700 |
| Arsenic | 1.1 | 1.7 | 3.2 | 3.5 | 1.4 | 1.1 | 2.1 | 10.1 | 1.9 | 1.7 | 2.1 | 4 | 5.1 | 9 | 3.2 | 3.4 | 3.8 | 3.9 | 4.6 |
| Barium | 11.2 | 39.4 | 64.4 | 240 | 49.2 | 57.1 | 32.1 | 207 | 93.5 | 33.3 | 104 | 47.2 | 587 | 146 | 210 | 140 | 124 | 157 | 317 |
| Beryllium | ND | ND | ND | ND | ND | ND | ND | 0.39 | ND | ND | ND | 0.36 | 0.57 | ND | ND | 0.48 | 0.46 | 0.37 | 0.63 |
| Calcium | 58700 | 38800 | 36800 | 27600 | 23100 | 30800 | 21400 | 46300 | 19900 | 62100 | 15700 | 30700 | 45100 | 222000 | 36000 | 27900 | 25300 | 28000 | 25000 |
| Chromium | 3.7 | 4.4 | 4.9 | 5.3 | 4.6 | 3.2 | 4.1 | 6.4 | 4.2 | 3.9 | 6.9 | 6.2 | 11.7 | 0.91 | 2.8 | 11.2 | 6.5 | 5.9 | 11.4 |
| Cobalt | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Copper | 44.5 | 19.7 | 58.4 | 47.3 | 9.3 | 134 | 33.8 | 16.5 | 27 | 23.9 | 35.2 | 16.9 | 12 | 60.8 | 8.2 | 23 | 13.2 | 11 | 13.2 |
| Iron | 5110 | 13300 | 9130 | 8160 | 12400 | 8010 | 7060 | 9640 | 11500 | 8200 | 11200 | 10700 | 15800 | 2470 | 7010 | 17300 | 11500 | 11200 | 15800 |
| Lead | 3 | 6.7 | 5.4 | 4.5 | 2.8 | 2.9 | 4.1 | 5.8 | 4 | 3.9 | 3.1 | 5.5 | 7.7 | 2.5 | 5.5 | 7.3 | 7.7 | 7.5 | 8.7 |
| Magnesium | 1610 | 3010 | 3170 | 3350 | 2040 | 2380 | 2710 | 5070 | 3230 | 2990 | 4780 | 2610 | 4810 | 8320 | 2750 | 4840 | 4710 | 4810 | 5990 |
| Manganese | 180 | 258 | 149 | 114 | 286 | 284 | 154 | 159 | 224 | 273 | 207 | 122 | 220 | 29.1 | 401 | 252 | 268 | 236 | 253 |
| Potassium | ND | 818 | 1040 | 987 | 743 | 1020 | 701 | 1330 | 1680 | 660 | 605 | 1250 | 2400 | ND | 1070 | 2270 | 1760 | 1520 | 2290 |
| Sodium | 157 | 163 | 191 | 198 | 169 | 165 | 169 | 276 | 219 | 228 | 273 | 341 | 373 | 248 | 171 | 239 | 212 | 221 | 699 |
| Thallium | ND | ND | 0.12 | 0.11 | ND | ND | 0.12 | 0.16 | 0.12 | ND | ND | ND | 0.18 | ND | 0.17 | 0.12 | 0.18 | 0.19 | 0.19 |
| Vanadium | 9.9 | 21.7 | 19.3 | 22.2 | 20.5 | 14.3 | 13.5 | 43.7 | 19.2 | 17.4 | 25.8 | 21.5 | 32.2 | 13.1 | 13.2 | 33.9 | 20.6 | 19 | 30 |
| Zinc | 37.3 | 28.6 | 33.5 | 47.4 | 19.6 | 81.9 | 38.2 | 30.1 | 37.7 | 25.9 | 35.8 | 24.9 | 31.2 | 48 | 19 | 38.2 | 34.5 | 32.8 | 42 |

[a] Samples designated FD are duplicate samples

[b] ND indicates that the analyte was not detected above the analytical method detection limit.

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**Table 3-6. Comparison of Maximum Reported Data for SWMU WP-58 to HHRB Screening Levels**

| Analyte | Maximum Reported Concentration and Sample Number (mg/kg) | EPA Region 6 HHRB Screening Levels[a] (mg/kg) |
|---|---|---|
| **ORGANICS** | | |
| Acetone | 0.016<br>WP58-25-2022 | 2,000 (residential)<br>200 (10% residential)[b]<br>8,400 (industrial)<br>840 (10% industrial)[b] |
| Bis(2-ethylhexyl)phthalate | 13[c] | 32 (residential)<br>140 (industrial) |
| **INORGANICS** | | |
| Aluminum | *13,700*[d]<br>WP58-25-2527 | 77,000 (residential)<br>7,700 (10% residential)[b]<br>saturation (industrial) |
| Antimony | <0.60 | 31 (residential)<br>3.1 (10% residential)[b]<br>680 (industrial)<br>68 (10% industrial)[b] |
| Arsenic | **10.1**[d]<br>WP58-24-0507 | 0.32 (residential)<br>2.0 (industrial) |
| Barium | 1,730<br>WP58-17-0507 | 5,300 (residential)<br>530 (10% residential)[b]<br>saturation (industrial) |
| Beryllium | *0.63*[d]<br>WP58-25-2527 | 0.14 (residential)<br>1.10 (industrial) |
| Cadmium | *<4.7*[d] | 38 (residential)<br>3.8 (10% residential)[b]<br>850 (industrial)<br>85 (10% industrial) |
| Chromium | 11.9<br>WP58-21-2527 | 210 (residential)<br>21 (10% residential)[b]<br>1,600 (industrial)<br>160 (10% industrial)[b] |
| Cobalt | 9.7<br>WP58-18-2022FD | 4,700 (residential)<br>470 (10% residential)[b]<br>saturation (industrial) |
| Copper | 262<br>WP58-17-1012 | 2,800 (residential)<br>280 (10% residential)[b]<br>63,000 (industrial)<br>6,300 (10% industrial)[b] |
| Iron | *31,500*[d]<br>WP58-18-2022FD | 23,000 (residential)<br>2,300 (10% residential)[b]<br>saturation (industrial) |
| Lead | 8.7<br>WP58-25-2527 | 400 (residential)<br>40 (10% residential)[b]<br>2,000 (industrial)<br>200 (10% industrial)[b] |
| Magnesium | 8,320<br>WP58-25-0507 | N/A[e] |

**Table 3-6. Comparison of Maximum Reported Data for SWMU WP-58 to HHRB Screening Levels, Continued**

| Analyte | Maximum Reported Concentration and Sample Number (mg/kg) | EPA Region 6 HHRB Screening Levels[a] (mg/kg) |
|---|---|---|
| Manganese | *401*[d]<br>WP58-25-1012 | 380 (residential actual value)<br>38 (10% residential value)[b]<br>8,300 (industrial actual value)<br>830 (10% industrial value)[b] |
| Mercury | <0.24 | 23 (residential)<br>2.3 (10% residential)[b]<br>510 (industrial)<br>51 (10% industrial)[b] |
| Molybdenum | <9.6 | 380 (residential)<br>38 (10% residential)[b]<br>8,500 (industrial)<br>850 (10% industrial)[b] |
| Nickel | 18 | 1,500 (residential)<br>150 (10% residential)[b]<br>34,000 (industrial)<br>3,400 (10% industrial)[b] |
| Potassium | 2,400<br>WP58-24-2527FD | N/A[e] |
| Selenium | <0.60 | 380 (residential)<br>38 (10% residential)[b]<br>8,500 (industrial)<br>850 (10% industrial)[b] |
| Silver | <1.2 | 380 (residential)<br>38 (10% residential)[b]<br>8,500 (industrial)<br>850 (10% industrial)[b] |
| Sodium | 699<br>WP58-25-2527 | N/A[e] |
| Thallium | 0.2<br>WP58-17-1012FD | 6.1 (residential)[f]<br>0.61 (10% residential)[b]<br>140 (industrial)[f]<br>14 (10% industrial)[b] |
| Vanadium | *57.7*[d]<br>WP58-18-2022FD | 540 (residential)<br>54 (10% residential value)[b]<br>12,000 (industrial)<br>1,200 (10% industrial)[b] |

**Table 3-6. Comparison of Maximum Reported Data for SWMU WP-58 to HHRB Screening Levels, Continued**

| Analyte | Maximum Reported Concentration and Sample Number (mg/kg) | EPA Region 6 HHRB Screening Levels[a] (mg/kg) |
|---|---|---|
| Zinc | 127<br>WP58-17-1012 | 3,300 (residential)<br>330 (10% residential value)[b]<br>saturation (industrial) |

[a] EPA Region 6 HHRB Media-Specific Residential Screening Levels.
[b] Screening levels for noncarcinogens reflect an adjustment to 10 percent of the actual EPA Region 6 screening level to account for possible additive effects related to exposure to multiple contaminants.
[c] A single sample (RB11 41-0305) displayed a higher concentration of bis(2-ethylhexyl)phthalate (100 mg/kg). However, none of the other 79 samples that contained reportable concentrations of bis(2-ethylhexyl)phthalate contained levels of this order of magnitude nor did the sample in question contain any other reportable concentrations of organic compounds. Since bis(2-ethylhexyl)phthalate is a common laboratory contaminant, the anomalous 100 mg/kg result was discounted during the data evaluation process and the second highest reportable concentration—17 mg/kg—is shown as the maximum reported concentration.
[d] Values in italics exceed either the adjusted or unadjusted residential screening levels; values in boldface exceed either the adjusted or unadjusted industrial screening levels.
[e] No screening level available.
[f] Screening level is for the lowest level of the thallium salts.

The only organic compounds detected in any samples at concentrations above the method detection levels were one occurrence of acetone (boring 25 from 20 to 22 ft bgs) and two occurrences of bis (2-ethylhexyl)phthalate (borings 22 and 25 from 10 to 12 and 20 to 22 ft bgs, respectively). None of the detected compound concentrations exceed the adjusted or unadjusted EPA Region 6 residential HHRB screening levels and therefore these organics are not compounds of concern at the site. These are common laboratory contaminants and these three detections are believed to be from other sources.

The maximum reported concentrations for arsenic, beryllium, iron, and manganese exceed the EPA Region 6 residential screening values; however, with the exception of arsenic, concentrations do not exceed the industrial screening values. The maximum reported concentrations of aluminum, barium, and vanadium exceed only the adjusted EPA Region 6 residential screening levels (10 percent of the actual value). In addition, the detection level for cadmium, 4 mg/kg, is slightly greater than the adjusted residential screening level of 3.8 mg/kg. Therefore, some cadmium samples may exceed the adjusted screening level, although they would not exceed the unadjusted residential level or the industrial levels. The subsections below discuss each of these metals in more detail.

**Arsenic.** Sixty-eight (68) percent, or 23 of the 34 samples collected (including 2 of the 4 background samples and 2 samples plus their duplicates), exceed the industrial screening level for arsenic. Potentially all of the samples exceed the residential screening level, since the detection limit (approximately 0.5 mg/kg) exceeds the screening level (0.32 mg/kg).

**Aluminum.** Ten (10) of the 34 collected samples contain aluminum concentrations in excess of 10 percent of the residential HHRB screening levels (borings 17 from 5 to 7 ft bgs, 18 from 10 to 12 and 15 to 17 ft bgs, 19 from 5 to 7 ft bgs, 21 from 10 to 12 and 25 to 27 ft bgs, 24 from 5 to 7 and 25 to 27 ft bgs, and 25 from 15 to 17 and 25 to 27 ft bgs). One of the samples exceeds the unadjusted residential screening level. From these sample locations, it can be seen that there is no correlation between the samples with exceedances and either borehole location or sample depth.

**Barium.** Two (2) of the 34 collected samples contain barium concentrations in excess of 10 percent of the residential HHRB screening level (borings 17 from 5 to 7 ft bgs and the duplicate sample from boring 24 from 25 to 27 ft bgs). (The original sample from boring 24 does not exceed any HHRB screening levels.) None of the samples exceed the unadjusted residential screening level.

**Beryllium.** All of the samples collected may exceed the residential screening level for beryllium, since the detection limit (approximately 0.3 mg/kg) exceeds the screening level (0.14 mg/kg). None of the samples exceed the industrial screening level. Among those samples known to exceed the residential screening level (those with concentrations greater than or equal to the detection limit), there is no correlation between concentration and either borehole location or sample depth, as can be seen from Table 3-4.

**Cadmium.** None of the samples collected exceed the unadjusted residential or the industrial screening levels for cadmium. Although there were no detections of cadmium in the soil samples, all of the samples collected may exceed the adjusted residential screening level, since the detection limit (approximately 4 mg/kg) slightly exceeds the screening level (3.8 mg/kg). However, a review of the cadmium data by the analytical laboratory indicates that the concentrations of cadmium detected, although they were less than the analytical reporting limit and therefore may have some variability in their accurateness, were less than the 3.8 mg/kg screening level (Barba, 1998). Because of this, cadmium is not considered to have exceeded a HHRB screening level at this SWMU.

**Iron.** All of the samples collected (including background samples) exceed the adjusted residential screening level for iron. Only 1 sample, WP58-18-2022FD ( a field duplicate) exceeds the unadjusted residential screening level. The original field sample (WP58-18-2022) does not exceed the unadjusted residential screening level.

**Manganese.** All but one of the soil samples collected, including background samples, exceed the adjusted residential screening value for manganese. Only 1 sample, WP58-25-1012, exceeds the unadjusted residential screening level. None of the samples exceed the industrial screening levels.

**Vanadium.** One of the collected samples contains a vanadium concentration in excess of 10 percent of the residential HHRB screening level (WP58-18-2022FD). The original field sample (WP58-18-2022) does not exceed the adjusted or unadjusted residential screening level.

### *3.3.2 Comparison to Background Concentrations*

The analytes that exceeded an adjusted or unadjusted residential or industrial screening level were then compared to the SNL UTLs and DOE/OB-calculated background concentrations for Kirtland. A summary is presented in Table 3-7. Where SNL or DOE/OB data were not available, the detected concentrations were also compared to literature values for similar soil types.

**Table 3-7. Comparison of Analytical Data from SWMU WP-58 to Background Concentrations**

| Analyte | Maximum Reported Concentration (mg/kg) | DOE-OB Suggested Maximum Background [a] (mg/kg) | SNL-Calculated 95th Percentile or UTL [a] (mg/kg) |
|---|---|---|---|
| Aluminum | 13,700 | Not calculated | Not calculated |
| Arsenic | *14.7* [b] | 5.6 (surface)<br>4.4 (subsurface) | 5.6 (surface)<br>4.4 (subsurface) |
| Barium | *1,730* | 200 (surface)<br>200 (subsurface) | 200 (surface)<br>336 (subsurface) |
| Beryllium | 0.63 | 0.8 | 0.8 |
| Iron | 31,500 | Not calculated | Not calculated |
| Manganese | 401 | Not calculated | Not calculated |
| Vanadium | *57.7* [b] | 33.0 | 47.2 (surface)<br>42.8 (subsurface) |

[a] Where available, DOE/OB and SNL UTL values for the North Super Group soils were used since this is the location of the site.
[b] Values exceeding the DOE/OB or SNL levels are in italics.

Each analyte is discussed in the following subsections.

**Aluminum.** Background concentrations were not established for aluminum in the SNL/NM background study report or by the DOE/OB. However, the literature values for aluminum in soils (77,000 mg/kg, 71,000 mg/kg, 81,300 mg/kg and 80,500 mg/kg from Krauskopf [1967], Lindsay [1979], Mason [1966], and Vinogradov [1962], respectively), are much higher than the maximum concentration detected at SWMU WP-58 (13,700 mg/kg). For these reasons, the aluminum at the site is believed to be naturally occurring.

**Arsenic.** Nine (9) of the reported arsenic values for SWMU WP-58 exceed the SNL-calculated UTL background concentrations for arsenic. These sample locations and their concentrations are presented in Table 3-8. The samples with arsenic concentrations exceeding the UTL were collected from 6 of the 8 borings and from 3 of the 5 depths sampled. The samples do not display a consistent pattern of UTL exceedances from subsequent depth intervals (i.e., 5- to 7-ft and 10- to 12-ft samples from a boring location do exceed appropriate UTLs, but 15- to 17-ft samples do not exceed UTL).

**Table 3-8. Summary of Arsenic Samples from SWMU WP-58 Exceeding DOE and SNL UTLs**

| Boring Location and Sample Interval | Sample Concentration (mg/kg) |
|---|---|
| WP58-17-0507 | 10 |
| WP58-17-1012 | 7.5 |
| WP58-18-1012 | 5.2 |
| WP58-19-0507 | 7.8 |
| WP58-19-1012 | 4.6 |
| WP58-21-2527 | 4.8 |
| WP58-24-0507 | 10.1 |
| WP58-24-2527FD[a] | 5.1 |
| WP58-25-0507 | 9 |
| WP58-25-2527 | 4.6 |

[a] This sample is a field duplicate. The arsenic concentration in the original sample from this interval was 4 mg/kg.

Arsenic is found in trace amounts in the environment. It attaches to soil particles, stream sediments, and aquifer materials. It also forms minerals with other elements, predominantly iron and sulfur. Iron, manganese, and phosphate minerals can contain more than 1,000 mg/kg arsenic. Arsenic concentrations are highest in iron-rich sedimentary rocks, which contain as much as 2,900 mg/kg arsenic (Boyle and Jonasson, 1973). Pyrite, a common iron sulfide material, can contain as much as 5,600 mg/kg arsenic. The following table lists some of the literature values for arsenic in various rocks and soils.

**Table 3-9. Literature Values for Arsenic Concentrations in Soils and Rocks**

| Media | Concentration (mg/kg) |
|---|---|
| Soils | 0.1 to 55[a] |
| | 1 to 50[b] |
| Western US | 1.2 to 97[c] |
| | 0.1 to 55 [d] |
| | 0.1 to 48 [e] |
| Rocks | |
| Volcanic | 0.18 to 113 [a] |
| Igneous | 0.061 to 28 [a] |
| | 0.2 to 13.8 [d] |
| Metamorphic | <0.05 to 143 [a] |
| Sedimentary | |
| Sandstone | 0.6 to 120 [a] |
| | 0.6 to 120 [d] |
| Clay Rich | 0.3 to 500 [a] |
| Iron-Rich | 1.0 to 2,900 [a] |

[a] Boyle and Jonasson, 1973.
[b] Lindsay, 1979.
[c] Shacklette et al, 1974.
[d] Adriano, 1986.
[E] Pais and Jones, 1997

As can be seen from the table, arsenic concentrations vary considerably in different soil and rock types and within a given soil or rock type. Arsenic is known to be elevated in the soils, rocks, and aquifers of the Albuquerque basin. In fact, the City of Albuquerque is currently investigating methods to remove the arsenic concentrations found in the City's drinking water sources. The soils at SWMU WP-58 are alluvial deposits from the weathering of the nearby Sandia and Manzano Mountains. They are, therefore, the weathered granites, limestone/sandstones, and high-grade metamorphic rocks of these mountains. The highest concentration detected at SWMU WP-58, 10.1 mg/kg, is well within the literature values for these soil types, especially considering the fact that the soils have high concentrations of iron-rich sedimentary rocks.

The limited occurrence and the randomness of samples with arsenic concentrations exceeding the SNL-calculated UTL as well as the fact that the concentrations are well below the literature values for the soil types present at the site, suggest that these levels are the result of naturally occurring background concentrations. UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Barium.** Nine (9) of the 38 samples and duplicate samples collected (including 1 of the background samples and 1 field duplicate) contain barium in concentrations greater than the DOE-OB suggested maximum background concentration of 200 mg/kg. As shown in Table 3-4, these 9 samples were collected from 7 different borings. The samples were collected from depths of 5 to 7 ft up to 25 to 27 ft bgs. Only 2 of these samples (WP58-17-0507 and WP58-24-2527FD) exceed the SNL-calculated UTL for subsurface soils of 336 mg/kg. One of these samples is a field duplicate and its original sample is less than both the SNL and DOE-OB values. All of these values are less than the range of values for barium in soils presented in the literature (100 to 3,000 mg/kg (Pais and Jones, 1997, and Lindsay, 1979) and all but 2 of the samples are less than the average values presented in the literature (425 mg/kg [Mason, 1966] and 650 mg/kg [Vinogradov, 1962]). Likewise the literature value for the average barium concentration in granite, 600 mg/kg (Krauskopf, 1967) is greater than all but one of the WP-58 samples (WP58-17-0507, 1730 mg/kg). The limited occurrence and the randomness of samples with barium concentrations exceeding the SNL-calculated UTL (5 percent) as well as the fact that the concentrations are within the literature values for the soil types present at the site, suggest that these levels are the result of naturally occurring background concentrations. UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Beryllium.** The maximum reported concentrations of beryllium is less than the DOE-suggested maximum background and SNL-calculated UTL for the metal. Therefore, this constituent is probably not related to anthropogenic activities at SWMU WP-58.

**Iron.** Background concentrations were not established for iron in the SNL/NM or DOE/OB background study reports. However, the maximum concentration detected at WP-58 (31,500 mg/kg) is less than the literature values of 27,000 to 86,000 mg/kg, 50,000 mg/kg, and 46,500 mg/kg found in Krauskopf (1967), Mason (1966) and Vinogradov (1962), respectively. Likewise, since all of the samples, including background samples, contain iron concentrations in excess of adjusted residential screening levels, these concentrations are most likely naturally occurring and not due to anthropogenic activities.

**Manganese.** As with iron, background concentrations were not established for manganese in the SNL/NM or DOE/OB background study reports. However, the maximum concentration detected at SWMU WP-58 (401 mg/kg) is less than the literature values of 400 to 1,500 mg/kg, 950 mg/kg, and 1,000 mg/kg found in Krauskopf (1967), Mason (1966) and Vinogradov (1962), respectively. Likewise, since all but one of the

samples, including background samples, contain manganese concentrations in excess of adjusted residential screening levels, these concentrations are most likely naturally occurring and not due to anthropogenic activities.

**Vanadium.** Three (3) of the 38 samples and duplicate samples collected exceed the SNL subsurface UTL of 42.8 mg/kg (WP58-24-0507, WP58-19-0507, and WP58-18-2022FD). The sample with the highest concentration (57.7 mg/kg) is the duplicate of a sample that has only 11.2 mg/kg, which does not exceed the UTL. An additional 3 samples (WP58-25-1517, WP58-21-2527, and WP58-17-0507) exceed the DOE/OB suggested maximum background concentration of 33 mg/kg. These 6 samples were collected from 6 different borings. The samples were collected from depths of 5 to 7 ft up to 25 to 27 ft bgs. All of these samples are well within the literature values found for the average concentration of vanadium in soils of 20 to 250 mg/kg (Krauskopf, 1967), 100 mg/kg (Lindsay, 1979), 135 mg/kg (Mason, 1966) and 83 mg/kg (Vinogradov, 1962). This fact, coupled with the very limited occurrence (8 percent and 16 percent, respectively) and the randomness of samples with vanadium concentrations exceeding the DOE-suggested maximum background concentration and SNL-calculated UTL suggest that these levels are the result of naturally occurring background concentrations since UTL values, by definition, cannot screen out 100 percent of the sample concentrations due to background levels.

**Summary.** From the discussion above, there is not a clear pattern of contamination from a single metal constituent— the elevated levels for any given metal appear to be random with respect to both boring location and sample depth. The same lack of pattern is seen when all of the samples that exceed a HHRB screening level are considered together. In Table 3-10, the number of exceedances of a HHRB screening level are listed for each sample. For this table, the number of exceedances are based upon the adjusted residential screening values except for the following:

- For carcinogens, the unadjusted screening level was used since there are no adjustments made for carcinogens.
- For beryllium, the industrial screening level was used since all of the samples may have exceeded the residential screening level.
- For iron, the unadjusted residential screening level was used since all of the samples exceeded the adjusted levels.

**Table 3-10. Number of HHRB Exceedances Per Sample Collected from SWMU WP-58**

| Boring Number | Interval (ft bgs) | | | | | Total per Boring | Average per Sample |
|---|---|---|---|---|---|---|---|
| | 5 to 7 | 10 to 12 | 15 to 17 | 20 to 22 | 25 to 27 | | |
| 17 | 4 | 2 | Not Sampled | | | 6 | 3 |
| 18 | | 2 | 3 | 1 | 2 | 8 | 2 |
| 19 | 3 | 2 | | | | 5 | 2.5 |
| 20 | | 2 | 1 | 1 | 2 | 6 | 1.5 |
| 21 | | 3 | 2 | 1 | 3 | 9 | 2.25 |
| 22 | | 1 | 1 | 1 | 2 | 5 | 1.25 |
| 24 | 3 | 1 | 1 | 2 | 3 | 10 | 2 |
| 25 | 1 | 3 | 3 | 2 | 3 | 12 | 2.4 |
| **Total per Interval** | **11** | **16** | **11** | **8** | **15** | **61** | |
| **Average per Interval** | **2.75** | **2** | **1.8** | **1.3** | **2.5** | | **2.1** |
| 23 (background) | | 2 | 1 | 1 | 2 | 6 | 1.5 |

Note: Numbers are for exceedances of adjusted HHRB levels except for carcinogens (there is no adjusted value so the unadjusted was used), beryllium (industrial was used since all samples exceed residential), and iron (unadjusted was used since all samples exceed the adjusted).

From the table it can be seen that there is not a clear pattern of multiple contaminants in either a single boring or in a given sample depth. Therefore, there is not a clear pattern of multiple metals in individual samples all being in exceedance of EPA HHRB screening levels. Likewise, there are no organic contaminants of concern present in the samples, providing further support that these metal concentrations are not the result of anthropogenic activities.

### *3.3.3 Comparison to FDA Dietary Standards*

As requested by the NMED (1997), maximum reported concentrations of essential nutrients for samples collected from SWMU WP-58 were compared to the RDIs based on a daily intake of 100 mg of soil. This intake assumption corresponds to a residential receptor. Table 3-11 summarizes the results of these comparisons. These results show that the daily intake of the various nutrients/minerals, as a result of soil ingestion, would not exceed the RDI or DRV. Therefore, none of the metals are considered to be compounds of concern at the site.

**Table 3-11. Summary of Maximum Reported Essential Nutrients Data for SWMU WP-58**

| Analyte | Maximum Reported Concentration (mg/kg) | Calculated Daily Intake (mg/day) | RDI or DRV[a] (mg/day) |
|---|---|---|---|
| Calcium | 222,000 | 22.2 | 1,000 |
| Magnesium | 8,320 | 0.832 | 400 |
| Potassium | 2,400 | 0.24 | 3,500 |
| Sodium | 699 | 0.0699 | 2,400 |

[a]RDI established for vitamins, minerals and protein; RDIs presented for calcium and magnesium. DRV established for nutrients; DRVs are presented for sodium and potassium.

Source: FDA, 1996.

## 3.4 Nature and Extent of Contamination

The primary contaminants of concern at this site were SVOCs and metals, and potentially VOCs that may have been undetected under the building in previous investigations. The analytical results from the 1997 RFI indicate that the horizontal and vertical extent of previously-identified SVOC contamination has been delineated. No additional anthropogenic SVOCs, VOCs, or metals concentrations that exceed residential HHRB screening levels were identified during this investigation.

However, as discussed in the preceding sections, SVOCs in excess of the residential HHRB screening levels were identified in previous investigations. The approximate extent of those areas of the site in which concentrations of SVOCs in excess of the residential HHRB screening levels have been identified are shown in Figure 3-2. These areas are approximated by

- A 30-ft x 8-ft x 10-ft area of soil adjacent to the east wall of Building 20451
- A 10-ft x 5-ft x 5-ft area extending eastward from 14 ft north of the southeast corner of Building 20451
- An 8-ft x 8-ft x 10-ft area centered around a point 50 ft north of the southeast corner of Building 20451 and 12 ft east of Building 20451
- An 8-ft x 8-ft x 10-ft area centered around a point 50 ft north of the southeast corner of Building 20451 and 25 ft east of Building 20451
- An 8-ft x 8-ft x 10-ft area centered around a point 50 ft north of the southeast corner of Building 20451 and 31 ft east of Building 20451

In total, approximately 4,570 cu ft of soil are considered contaminated.

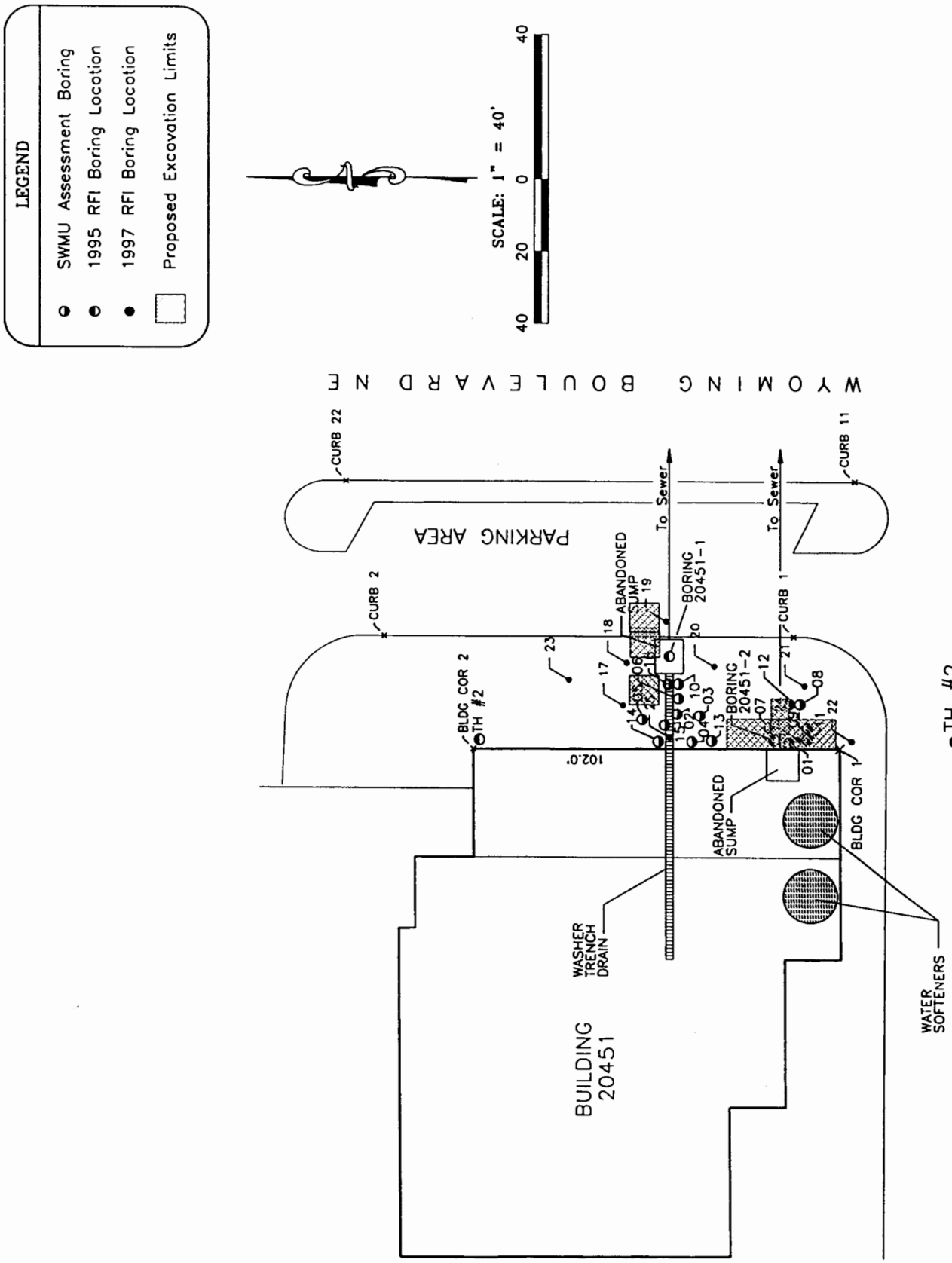


Figure 3-2. Boring Locations and Proposed Excavation Limits, SWMU WP-58

## 3.5 Conclusions and Recommendations

### 3.5.1 Conclusions

Compounds of concern, attributable to anthropogenic activities, were not detected at concentrations exceeding the residential or industrial HHRB screening levels at SWMU WP-58 during the additional delineation activities of the 1997 RFI. However, previous investigations conducted at SWMU WP-58 have indicated the presence of SVOCs in excess of HHRB screening levels.

### 3.5.2 Recommendations

Based on the conclusions presented above, an interim corrective measure to excavate and dispose of soil is recommended for those areas shown in Figure 3-2 in which SVOCs in excess of HHRB screening levels were detected during previous investigations at SWMU WP-58.

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