

Background Shallow Soil Summary Report
BMI Complex
and
Common Areas Vicinity

Basic Remediation Company
Titanium Metals Corporation
Henderson, Nevada

Submitted to

Nevada Division of Environmental Protection
1771 E. Flamingo Road, Suite 121-A
Las Vegas, Nevada 89119-0837

Jointly Prepared for

Titanium Metals Corporation.
8000 Lake Mead Parkway
Henderson, NV 89015

Basic Remediation Company
875 West Warm Springs
Henderson, NV 89015

March 16, 2007

SIGNATURE PAGE

BACKGROUND SOIL SUMMARY REPORT

**Basic Remediation Company
Titanium Metals Corporation
Henderson, Nevada**

Approvals:

JURAT: *I, Ranajit Sahu, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

LAB JURAT: *I, Ranajit Sahu, hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*



Ranajit Sahu, C.E.M. (No. EM – 1699, Exp. 10/07/2008)
BRC Project Manager

Date

JURAT: *I, Kirk J. Stowers, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

LAB JURAT: *I, Kirk J. Stowers, hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*

Kirk J. Stowers, C.E.M. (No. EM – 1549, Exp. 10/11/2008)
Broadbent & Associates, Inc.

Date

Technical Contributors:

Kathy Allford – T2 Environmental, Houston, Texas
Ray Bienert, Ph.D. – Tetra Tech EM Inc., San Francisco, California
Paul Black, Ph.D. – Neptune and Company, Inc., Lakewood, Colorado
Victoria Tyson – Tyson Contracting, Las Vegas, Nevada
Paul Duffy, Ph.D. – Neptune and Company, Inc., Bellvue, Colorado
Candy Friday – Tetra Tech EM Inc., Houston, Texas
Mark Jones – MHW Americas, Inc., Sacramento, California
Sandra Dittmar – MHW Americas, Inc., Sacramento, California

CONTENTS

| <u>Section</u> | | <u>Page</u> |
|----------------|---|-------------|
| 1.0 | INTRODUCTION..... | 1-1 |
| 1.1 | OBJECTIVES..... | 1-2 |
| 1.2 | PURPOSE..... | 1-3 |
| 1.3 | SITE LOCATION AND GEOLOGIC SETTING..... | 1-3 |
| 2.0 | SUMMARY OF THE INVESTIGATION..... | 2-1 |
| 2.1 | SAMPLING LOCATIONS..... | 2-1 |
| 2.2 | SAMPLING PROCEDURES..... | 2-3 |
| 2.3 | SAMPLE ANALYSIS..... | 2-4 |
| 2.4 | DATA VALIDATION SUMMARY..... | 2-4 |
| | 2.4.1 BRC/TIMET Dataset..... | 2-5 |
| | 2.4.2 Environ Dataset..... | 2-7 |
| 3.0 | STATISTICAL METHODS..... | 3-1 |
| 3.1 | DATA PREPARATION..... | 3-1 |
| | 3.1.1 Spatial Independence Assumptions..... | 3-1 |
| | 3.1.2 Data Filtering and Combining Rules..... | 3-2 |
| | 3.1.3 Treatment of Data Qualified as Nondetects..... | 3-7 |
| | 3.1.4 Treatment of Field Duplicate and Split Sample Results..... | 3-8 |
| | 3.1.5 Identification and Treatment of Outliers..... | 3-9 |
| | 3.1.6 Distributional Testing..... | 3-10 |
| 3.2 | STATISTICAL PLOTS..... | 3-11 |
| | 3.2.1 Distribution Plots..... | 3-11 |
| | 3.2.2 Box-and-Whisker Plots..... | 3-14 |
| 3.3 | DESCRIPTIVE SUMMARY STATISTICS..... | 3-15 |
| | 3.3.1 Metals and Anions..... | 3-15 |
| | 3.3.2 Radionuclides..... | 3-16 |
| | 3.3.3 Other Parameters..... | 3-17 |
| 3.4 | STATISTICAL TESTS AND COMPARISONS..... | 3-17 |
| | 3.4.1 Statistical Hypothesis Testing..... | 3-18 |
| | 3.4.2 Comparison of BRC/TIMET and Environ Data..... | 3-21 |
| | 3.4.3 Comparison of BRC/TIMET and Environ Data by Depth Interval..... | 3-22 |
| | 3.4.4 Comparison of McCullough Range River Mountain Data for BRC/TIMET and Environ Dataset..... | 3-30 |
| | 3.4.5 Inter-Element Correlations for BRC/TIMET Data..... | 3-37 |
| 4.0 | SUMMARY AND CONCLUSIONS..... | 4-1 |
| 4.1 | METALS AND ANIONS..... | 4-3 |
| 4.2 | RADIONUCLIDES..... | 4-3 |
| 4.3 | OTHER PARAMETERS..... | 4-3 |
| 4.4 | COMPARISON OF BRC/TIMET AND ENVIRON DATA..... | 4-4 |
| 4.5 | COMPARISON OF BRC/TIMET/ ENVIRON DATA BY DEPTH INTERVAL..... | 4-4 |
| 4.6 | COMPARISON OF BRC/TIMET/ ENVIRON DATA BY GEOLOGIC SETTING..... | 4-5 |
| 5.0 | STATISTICAL GUIDANCE..... | 5-1 |
| 6.0 | REFERENCES..... | 6-1 |

Appendices

- A MEETING MINUTES BETWEEN NDEP, TIMET, AND BRC DATED JUNE 8, 2005;
COMMENT LETTER FROM NDEP TO BRC AND TIMET DATED MAY 27, 2005;
“BACKGROUND SOIL SAMPLING WORKPLAN DATED APRIL 2005
- B BACKGROUND SOIL SAMPLING FIELD NOTES (TABLE B-1); SOIL BORING LOGS
- C SOIL BACKGROUND ANALYTICAL SUMMARY DATA (TABLES C-1 AND C-2);
VALIDATION QUALIFIER AND CODE DEFINITIONS (TABLE C-3); GEOTECHNICAL
SOIL DATA SUMMARY TABLE (TABLE C-4); SOIL BACKGROUND ANALYTICAL
DATABASE; LABORATORY ANALYTICAL DATA PACKAGES (ALL ON COMPACT
DISC)
- D DATA VALIDATION SUMMARY REPORT FOR BRC/TIMET BACKGROUND SOIL;
DATA VALIDATION SUMMARY MEMORANDUM FOR ENVIRON BACKGROUND SOIL
- E STATISTICAL SUMMARY FOR BRC/TIMET DATA
- F STATISTICAL SUMMARY FOR ENVIRON DATA AND BRC/TIMET AND ENVIRON
COMPARISONS
- G STATISTICAL SUMMARY FOR COMBINED BRC/TIMET AND ENVIRON DATA

LIST OF TABLES

- 1 BACKGROUND SOIL SAMPLING LOCATIONS
- 2 DATASET ANALYTE LIST AND DETECTION FREQUENCY
- 3 SUMMARY OF STATISTICAL COMPARISON OF METALS, ANIONS, AND RADIONUCLIDES COLLECTED FOR DIFFERENT DEPTHS IN BRC/TIMET/ENVIRON BACKGROUND SOIL SAMPLES
- 4 SUMMARY OF STATISTICAL COMPARISON OF METALS AND RADIONUCLIDES COLLECTED FOR DIFFERENT ORIGINS IN BRC/TIMET/ENVIRON BACKGROUND SOIL SAMPLES
- B-1 BACKGROUND SOIL SAMPLING FIELD NOTES
- C-1 BRC/TIMET SOIL BACKGROUND ANALYTICAL DATA SUMMARY
- C-2 BRC/TIMET SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY
- C-3 VALIDATION QUALIFIER AND CODE DEFINITIONS
- C-4 GEOTECHNICAL SOIL DATA SUMMARY TABLE
- E-1 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN ALL BRC/TIMET BACKGROUND SOIL SAMPLES
- E-2 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET 0-FOOT BACKGROUND SOIL SAMPLES
- E-3 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET 5-FOOT BACKGROUND SOIL SAMPLES
- E-4 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET 10-FOOT BACKGROUND SOIL SAMPLES
- E-5 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN RC/TIMET 5- AND 10- FOOT BACKGROUND SOIL SAMPLES
- E-6 RPDs FOR BRC/TIMET FIELD SPLIT SAMPLES
- E-7 CORRELATION COEFFICIENTS FOR ALKALINE AND ALKALINE-EARTH METALS
- E-8 CORRELATION COEFFICIENTS FOR RADIONUCLIDES IN THE THORIUM-232 DECAY CHAIN
- E-9 CORRELATION COEFFICIENTS FOR RADIONUCLIDES IN THE URANIUM-238 DECAY CHAIN
- F-1 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN ALL ENVIRON BACKGROUND SOIL SAMPLES
- F-2 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN ENVIRON 0 -FOOT BACKGROUND SOIL SAMPLES
- F-3 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN ENVIRON 5- FOOT BACKGROUND SOIL SAMPLES

- G-1 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN ALL BRC/TIMET/ENVIRON BACKGROUND SOIL SAMPLES
- G-2 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET/ENVIRON 0-FOOT BACKGROUND SOIL SAMPLES
- G-3 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET 5-FOOT BACKGROUND SOIL SAMPLES
- G-4 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET 10-FOOT BACKGROUND SOIL SAMPLES
- G-5 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET/ENVIRON 5- AND 10-FOOT BACKGROUND SOIL SAMPLES
- G-6 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET/ENVIRON MCCULLOUGH RANGE BACKGROUND SOIL SAMPLES
- G-7 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET/ENVIRON RIVER MOUNTAINS BACKGROUND SOIL SAMPLES
- G-8 DESCRIPTIVE SUMMARY STATISTICS FOR METALS, ANIONS, AND RADIONUCLIDES IN BRC/TIMET/ENVIRON MIXED MOUNTAIN RANGE BACKGROUND SOIL SAMPLES
- G-9 STATISTICAL COMPARISON OF METALS, ANIONS, AND RADIONUCLIDES DATA COLLECTED FROM VARIOUS DEPTHS IN BRC/TIMET/ENVIRON BACKGROUND SOIL SAMPLES
- G-10 STATISTICAL COMPARISON OF METALS, ANIONS, AND RADIONUCLIDES DATA COLLECTED FROM VARIOUS ORIGINS IN BRC/TIMET/ENVIRON BACKGROUND SOIL SAMPLES OF DIFFERENT GEOLOGICAL ORIGIN

LIST OF FIGURES

- 1 REGIONAL GEOLOGIC MAP
- 1A REGIONAL GEOLOGIC MAP LEGEND
- 2 URANIUM-238 DECAY CHAIN
- 3 URANIUM-235 DECAY CHAIN
- 4 THORIUM-232 DECAY CHAIN
- F-1 COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL
- F-2 COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL

- G-1 DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL
- G-2 DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ ENVIRON BACKGROUND SOIL
- G-3 COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH
- G-4 COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH
- G-5 COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN
- G-6 COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN

ACRONYMS AND ABBREVIATIONS

| | |
|---------|--|
| ANOVA | Analysis of variance |
| bgs | Below ground surface |
| BMI | Basic Management, Inc. |
| BRC | Basic Remediation Company |
| CEC | Cation exchange capacity |
| CL | Concentration limit |
| DOE | U.S. Department of Energy |
| DQA | Data quality assessment |
| DVSR | Data validation summary report |
| Environ | Environ International Corporation |
| EPA | Environmental Protection Agency |
| ERM | Environmental Resources Management |
| GISdT | Guided Interactive Statistical Decision Tool |
| HSD | Honest Significant Difference |
| ICP | Inductively coupled plasma |
| IQR | Interquartile range |
| IRIS | Integrated Risk Information System |
| LCS | Laboratory control sample |
| MARLAP | Multi-Agency Radiological Laboratory Analytical Protocols Manual |
| MDC | Minimum detectable concentration |
| MDL | Method detection limit |
| mg/kg | Milligram per kilogram |
| MLE | Maximum likelihood estimation |
| MS | Mass spectroscopy |
| msl | Mean sea level |
| n | Sample size (number of samples) |
| Navy | U.S. Department of Navy |
| NBMG | Nevada Bureau of Mines and Geology |
| ND | Nondetect or censored |
| NDEP | Nevada Department of Environmental Protection |
| Neptune | Neptune and Company, Inc. |

ACRONYMS AND ABBREVIATIONS (continued)

| | |
|------------|-----------------------------------|
| pCi/g | PicoCurie per gram |
| PQL | Practical quantitation limit |
| QC | Quality control |
| RPD | Relative percent difference |
| Site | BMI Common Areas and Complex |
| SOP | Standard operating procedure |
| SQL | Sample quantitation limit |
| STL | Severn Trent Laboratories, Inc. |
| Tetra Tech | Tetra Tech EM Inc. |
| TIMET | Titanium Metals Corporation |
| TOC | Total organic carbon |
| UCL | Upper confidence limit |
| UTL | Upper tolerance limit |
| USDA | U.S. Department of Agriculture |
| VSP | Visual Sampling Plan |
| Workplan | Background Soil Sampling Workplan |
| WRS | Wilcoxon rank sum |

1.0 INTRODUCTION

This report documents the collection and evaluation of analytical data for background soil that are considered representative of background¹ conditions at the Basic Management, Inc. (BMI), Complex and Common Areas in Clark County, Nevada. For simplicity, the BMI Complex and Common Areas are hereafter referred to in this report as the “Site.” The BMI Complex includes the Titanium Metals Corporation (TIMET) facility and other industrial facilities. The BMI Common Areas include former TIMET, Upper, and Lower Ponds (see the Workplan in Appendix A, Figure 1). The former TIMET and Upper Ponds occupy the southern portion of the BMI Common Areas, and the Lower Ponds occupy the northern portion of the BMI Common Areas.

The background soil data were collected in accordance with the “Background Soil Sampling Workplan for BMI Common Areas and Complex Vicinity” (Workplan) dated April 2005 (see Appendix A) (Environmental Resources Management [ERM] and Tetra Tech EM Inc. [Tetra Tech] 2005). The Nevada Division of Environmental Protection (NDEP) approved the Workplan with comments on May 27, 2005 (see comment letter from NDEP in Appendix A). The Workplan was prepared and implemented jointly by Basic Remediation Company (BRC) and TIMET, whose properties at the Site are located near each other and have similar geology and soil types. The general scope of work included the collection of soil samples from background areas upgradient of Site industrial areas and analysis of these samples for site-related metals, radionuclides, general chemistry ions, and soil characteristics.

This report summarizes the background soil investigation (Section 2.0), discusses statistical methods used on the data gathered during the investigation (Section 3.0), provides a summary

¹The term "background" as used in this report is identical to the term used by Environ International Corporation (Environ) in its report of background conditions for the City of Henderson (Environ 2003) and is based on the U.S. Environmental Protection Agency's (EPA) Integrated Risk Information System (IRIS), which states, “Two types of background levels may exist for chemical substances: (a) Naturally occurring levels: Ambient concentrations of substances present in the environment, without human influence; (b) Anthropogenic levels: Concentrations of substances present in the environment due to human-made, non-site sources (e.g., automobiles, industries).”

and conclusions (Section 4.0), provides a statistical guidance (Section 5.0), and lists references used to prepare this report (Section 6.0). The project objectives, purpose, and site location and geographic setting are discussed below.

1.1 OBJECTIVES

The main objective of this study is the development of a representative background soil dataset that can be used to evaluate whether concentrations of site-related chemicals detected in Site soil samples statistically exceed concentrations of these chemicals in background soil. Soil samples were collected from three depth intervals at each sampling location: surface soil (0 to 0.5 foot below ground surface [bgs]) and two subsurface depths (4 to 6 and 9 to 11 feet bgs). The background soil study collected data for site-related metals, radionuclides, and anions. Soil characteristics data were also collected for soil texture, pH, conductivity, cation exchange capacity (CEC), salinity, total organic carbon (TOC), and percent moisture to evaluate whether the background soil sampling locations are representative of Site soil characteristics.

Specific goals and comparisons proposed for the background soils study included the collection of data

- From sampled soil units that are representative of Site soils;
- That form a sufficient sample population that can be used to support statistical comparison of on-site and background datasets;
- That are sufficient to form more than one background dataset, if required, based on statistical comparisons of data from different geologic settings (origins) and depths;
- That could be used to evaluate the comparability of background data collected during this study to data collected by Environ International Corporation (Environ) for the City of Henderson (Environ 2003); and
- That could be used to evaluate the comparability of soil originating from geologic units in the northern McCullough Range and the River Mountains.

1.2 PURPOSE

The purpose of the background soil study is to develop a data set to support the statistical comparison of Site and background datasets that will be used in evaluating Site conditions during future investigations. This document is intended to be a working document that provides a validated background dataset along with extensive statistical summaries of the data. Descriptive summary statistics and a variety of statistical plots are included in this document to facilitate future evaluations of Site data and Site-to-background data comparisons. Selection of statistical tests for future comparisons will depend on site-or project-specific objectives and conditions. The background data in this report are referred to as the “BRC/TIMET dataset.”

1.3 SITE LOCATION AND GEOLOGIC SETTING

The Site is located in Clark County, Nevada, approximately 2 miles west of the River Mountains and 1 mile north of the McCullough Range (see Figure 1 of the Workplan in Appendix A). The Upper Ponds occupy the southern portion of the BMI Common Areas, and the Lower Ponds occupy the northern portion of the BMI Common Areas. According to the Nevada Bureau of Mines and Geology’s (NBMG) 1965 geologic map of Clark County, Nevada, the River Mountains and northern McCullough Range consist of tertiary volcanic rocks including dacites and andesites (see Figures 1 and 1a). The land surface slopes from east to northwest from the River Mountains and from south to northeast from the McCullough Range. Near the Site, the surface topography slopes north toward the Las Vegas Wash.

Based on the U.S. Department of Agriculture’s *Soil Survey of Las Vegas Valley Area, Nevada*, the following soil types are present in the vicinity of the Site (USDA 1985):

- Caliza (map units 184 and 187): This soil type represents the dominant soil type in the immediate vicinity of the Site. Unit 184 is a very gravelly sandy loam and a very deep soil formed from different types of rock that forms in alluvium. Unit 184 soil generally forms on slopes of 2 to 8 percent. Unit 187 is present (1) west of the unit 184 occurrences west of the Site along the western boundary of the BMI Complex

and transecting the northwestern Lower Ponds, and (2) south of the BMI Common Areas and southeast of the BMI Complex. This unit is similar to unit 184 except that it is “extremely cobbly” sandy loam. Unit 184 is primarily located downgradient of the River Mountains and McCullough Range, and unit 187 is located north of the McCullough Range and also in the areas east-northeast of the McCullough Range and west of the River Mountains.

- Caliza-Pittman-Arizo (map unit 182): This soil type is located in a thick band east of the Site and transects the southeastern most corner of the Upper Ponds. This soil type also occurs south and adjacent to an area of unit 184 along the southern boundary of the BMI Complex. This soil consists of approximately 60 percent Caliza, 20 percent Pittman, 15 percent Arizo, and 5 percent Nickel soils on side slopes of erosional fan units. Caliza is a very deep soil formed from different types of rocks on erosional fan remnants. Pittman is a moderately deep soil formed from different types of rock on exposed remnants of alluvial fan deposits. Arizo is a very deep soil formed from different types of rock in channels on slopes of 0 to 8 percent. Unit 182 is located in areas northeast and east of the McCullough Range as well as west of the River Mountains.
- Arizo (map units 112 and 117): These soils are in localized areas south and east of the Site and extend east of the Upper Ponds. They transect the Upper Ponds east of the Beta Ditch. Arizo is a very gravelly loamy sand/very gravelly fine sandy loam and a very deep soil that formed on recent alluvium and in channels from various types of rock. Arizo generally forms on slopes of 0 to 8 percent.
- McCarran (map unit 326): This soil type is located northwest of the Lower Ponds south of the Las Vegas Wash. McCarran is a fine sandy loam/very cobbly fine sandy loam and a very deep soil formed from limestone and lacustrine sediments (high gypsum content) on relict alluvial flats. generally on slopes of 0 to 8 percent.
- Caliza-Pittman (map unit 181): This soil type is located near the base of the McCullough range within 0.25 mile southwest of the BMI Complex and approximately 1.5 miles southwest of the Upper Ponds. This unit consists of approximately 50 percent Caliza, 40 percent Pittman, and 10 percent Arizo (see descriptions of these individual components above for map unit 182). The USDA soil survey describes unit 181 as “extremely stony fine sandy loams” formed on erosional or exposed remnants of alluvial fan deposits derived from various kinds of source rock. This unit is described as deep to moderately deep and well drained.

A soils map reproduced from the 2004 USDA Soil Survey Geographic database shows that the soil type classification for the Upper and Lower Ponds area proper is map unit 600, “slickens,” a non-native soil type (artificial fill)(USDA 2004). This term is presumed to reflect the non-native material observed in the ponds, which were used for waste disposal. The soil type classification

for the BMI Complex is map unit 615, “urban land.” Native soils underlying the slickens and urban land units are assumed to be consistent with soils shown in map units for the surrounding area (primarily map unit 184 and, to a lesser extent, map units 112, 117, 182, 187, and 326). The USDA soils map is presented in Figure 2 of the Workplan in Appendix A and is based on the 1985 USDA soils survey (USDA 1985). The northern McCullough Range is the primary source of materials upslope of the BMI Complex and the western hook of the Lower Ponds.

Based on the locations of the soil units relative to the McCullough Range and the River Mountains, the topographic slope, and the dendritic geomorphology of the soil units, it is likely that these soils formed on alluvium derived from the weathered volcanic rocks of the McCullough Range and River Mountains. The primary and secondary mineral assemblages in these source rocks would be the primary contributor to background concentrations of metals, radionuclides, and anions in native soils; therefore, based on the similarity in soil descriptions and common parent materials for these soils, units 112, 117, 181, 182, 184, 187, and 326 are expected to exhibit similar ambient chemical concentrations downslope from both ranges.

Parent materials for soils beneath the Site and surrounding areas are presumed to be the following:

| Soil Unit | Source Material |
|------------------|---|
| 112 | McCullough Range and/or River Mountains (location-specific) |
| 117 | McCullough Range and/or River Mountains (location specific) |
| 181 | McCullough Range |
| 182 | McCullough Range and/or River Mountains (location specific) |
| 184 | McCullough Range and/or River Mountains |
| 187 | McCullough Range and/or River Mountains (location specific) |
| 326 | McCullough Range |

The similarity of chemical concentrations in background samples collected from soils downslope of the McCullough Range and the River Mountains was statistically evaluated after collection and validation of analytical data for the background soil samples. Analytical data from both the BRC/TIMET and Environ studies were used in this evaluation. A discussion of this comparison is presented in Section 3.4 of this report.

2.0 SUMMARY OF THE INVESTIGATION

This section discusses the sampling locations, procedures, analysis, and summarizes the results of data validation.

2.1 SAMPLING LOCATIONS

Soil samples were collected from 33 initial sampling locations on 11 undeveloped properties near and upgradient from the Site. Figures 1 and 2 in the Workplan in Appendix A show these 11 property locations as well as sampling locations for the 2003 Environ study.

The 11 properties and the sampling locations were selected because they exhibited the characteristics summarized below.

- They are off-site locations in relatively close proximity to the Site (see Figure 2 of the Workplan in Appendix A); however, they are upgradient and sufficiently distant from the Site so that impacts from Site operations are not likely.
- They are upwind of the Site (see wind direction plots indicating the predominant wind direction from the south and southwest in Table 2 of the Workplan in Appendix A) and thus unlikely to have been affected by aerial deposition of wind-borne dusts or vapors from Site operations.
- They are upslope of the Site and thus unlikely to have been affected by overland surface-water transport of potentially contaminated site sediments. The elevations of the background sampling locations are approximately 1,900 to 2,580 feet above mean sea level (msl), compared to the elevations of the BMI Common Areas (1,569 to 1,800 feet above msl) and BMI Complex (1,680 to 1,880 feet above msl).

Table 1 identifies the 11 properties, including sampling locations that represent the range of soil units found in the vicinity of the Site. Based on the information provided in Section 1.3, it is reasonable to assume that background soil samples collected from soil units 112, 117, 181, 182, 184, and 187 reflect background conditions for soils at the Site.

Table 1
Background Soil Sampling Locations

| Property Area | Associated Mountain Range | Soil Unit from USDA Survey | Rationale for Inclusion in Data Pool |
|-----------------------------------|---------------------------|----------------------------|---|
| BRC-BKG-01 (A,B,C) ^a | McCullough | 181 | Unit comparable to units 182, 184, and 187 (Caliza-Pittman-Arizo and Caliza) found in the immediate vicinity of the Site. |
| BRC-BKG-02 (A,B,C) | McCullough | 181 | As above, unit comparable to units 182, 184, and 187 |
| BRC-BKG-03 (A,B,C) | McCullough | 181 | As above, unit comparable to units 182, 184, and 187 |
| BRC-BKG-04 (A,B,C) | McCullough | 117 | Unit found in the immediate vicinity of the Site. |
| BRC-BKG-05 (A,B,C) | McCullough | 117 | Unit found in the immediate vicinity of the Site. |
| BRC-BKG-06 (A,B,C) | McCullough | 182 | Unit found in the immediate vicinity of the Site. |
| BRC-BKG-07 (A,B,C) | McCullough | 182 | Unit found in the immediate vicinity of the Site. |
| BRC-BKG-08 (A,B,C) | McCullough | 117 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-09 (A,B,C) | McCullough | 117 / 182 / 187 | Units found in the immediate vicinity of the Site. |
| BRC-BKG-10 (A, B, C) ^b | -- | -- | -- |
| BRC-BKG-11 (A,B,C) | McCullough | 184 | Predominant soil unit in the immediate vicinity of the Site. |
| BRC-BKG-12 (A,B,C) | McCullough/River | 112 / 182 / 117 | Units found in the immediate vicinity of the Site; location planned to augment Environ sampling in vicinity (downslope of the McCullough Range and River Mountains) |

Notes:

- a Represents three borings installed at each background property (BRC-BKG-01A, BRC-BKG-01B, and BRC-BKG-01C).
- b Property BRC-BKG-10 was originally identified but was removed based on input from NDEP. The identification numbers for the remaining 11 properties were retained as originally defined.

2.2 SUMMARY OF SAMPLING PROCEDURES AND FIELD RESULTS

Soil samples were collected from three borings (A, B, and C) drilled approximately 10 to 15 feet apart at each of the 11 properties using a hollow-stem auger rig. Surface soil samples were collected by hand using a stainless-steel shovel. Subsurface samples were collected from the drill core. Samples collected from each boring at each of the 11 properties are considered independent samples. Table B-1 (Appendix B) provides a summary of the sample collection event. Sampling and sample handling procedures for both sampling methods were generally consistent with the standard operating procedures (SOP) developed for the BMI Common Areas as provided in Appendix C of the “Final Hydrogeologic Characterization Workplan” (MWH Americas, Inc. 2003). Exceptions to the SOPs are noted in Table B-1, Appendix B.

For this study, surface soil is defined as the upper 0.5 foot of the soil horizon, and subsurface soil is defined as soil below 0.5 foot bgs. Subsurface soil samples were collected from each 2-foot interval of drill core (from 4 to 6 and 9 to 11 feet bgs) and homogenized in a stainless-steel bowl. Sample aliquots were collected from this homogenized soil and submitted for analysis as follows:

- Surface Soil: 0 to 0.5 foot bgs
- Subsurface Soil: 4 to 6 feet bgs; core homogenized
- Subsurface Soil: 9 to 11 feet bgs; core homogenized

Three borings were advanced at all 11 property locations, and three samples from each zone were collected for an initial total of 99 soil samples. Field conditions required relocating borings at property location BRC-BKG-05 because the auger could not be advanced to the proposed depth. At property location BRC-BKG-05, four surface and subsurface samples were collected from three borings installed before the auger could no longer be advanced. A second attempt to drill three soil borings at property location BRC-BKG-05 was successful, resulting in several additional samples for a final total of 104 independent samples and 3 split samples for quality

control (QC). The original boring is denoted using BRC-BKG-05, and the relocated borings are denoted using BRC-BKG-05R. In a few cases, the sampling interval was modified slightly based on field sampling equipment or conditions. Table B-1 in Appendix B summarizes the site locations, boring identification numbers, sampling intervals, and field observations. The soil boring logs in Appendix B represent each location, and one soil boring log was prepared to represent all three borings (A, B, and C) at each property.

2.3 SAMPLE ANALYSIS

The soil samples were submitted for analysis to Severn Trent Laboratories, Inc. (STL), in St. Louis, Missouri. Analyses were conducted at three STL laboratory locations in St. Louis, Missouri; Burlington, Vermont; and Richland, Washington. At the time of sample analysis, all three STL locations were NDEP-certified laboratories for the analyses conducted. Surface and subsurface sample analytical parameters included a full suite of metals, anions (chloride, fluoride, sulfate, and nitrate and nitrite), and radionuclides. Table 3 of the Workplan in Appendix A summarizes the individual analytes, analytical methods, and practical quantitation limits (PQL). These analytes and methods are consistent with the BRC and TIMET site-related chemicals list and analytical program previously established for the BMI Common Areas project (BRC 2006) and the TIMET site (Tetra Tech 2004), with input from the NDEP. Background soil characteristics were further evaluated for soil texture, pH, conductivity, CEC, salinity, TOC, and percent moisture. Appendix C presents the analytical data summary tables and analytical data.

2.4 DATA VALIDATION SUMMARY

Two soil background datasets were validated: the BRC/TIMET and Environ datasets. Two types of data validation were conducted, full and partial validation. The TIMET project team chemist conducted the data validation for the BRC/TIMET dataset, which included 10 percent full validation and 90 percent partial validation. A project chemist with NDEP's contractor, Neptune and Company, Inc. (Neptune), conducted a partial data validation of the Environ dataset. The

data validation findings for the BRC/TIMET and Environ soil background datasets are summarized in the following sections.

2.4.1 BRC/TIMET Dataset

As stated above, full validation was conducted on 10 percent of the BRC/TIMET dataset, and a partial validation was conducted on the remaining 90 percent. Stable chemistry (metals and anions) results for background soil samples were validated in accordance with the U.S. Environmental Protection Agency (EPA) guidance documents “U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review” and “Region 9 Superfund Data Evaluation/Validation Guidance” (EPA 2004b and 2001b). EPA has not standardized the validation of radionuclide data, so the reviewer relied on professional judgment and other sources for data qualification. Radionuclide data validation was conducted using several documents, including the EPA document “Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)” (EPA 2004a), the U.S. Department of Energy (DOE) reference document titled “Evaluation of Radiochemical Data Usability” (DOE 1997), QC requirements and criteria summarized in the applicable methods.

Based on data validation and review, data qualifiers were added to the electronic BRC/TIMET background database to signify if the data were acceptable, acceptable with qualification, or rejected. When applicable, result bias is indicated. In addition, for every data validation qualifier, a secondary comment code was entered to indicate the reason for qualification. The data validation summary report (DVSR) in Appendix D provides the definitions for the data validation qualifiers and comment codes used in the BRC/TIMET background database. Validation qualifiers and definitions are based on those used by EPA in current data validation guidelines (EPA 2004b). Appendix C presents the electronic validated background database.

A number of sample results were qualified as estimated based on the following issues (corresponding to Tables 5 through 13 in the DVSR in Appendix D):

- Holding time exceedances
- Laboratory blank contamination
- Spike sample recoveries (including matrix spike and laboratory control samples [LCS])
- Duplicate precision
- Stable chemistry results less than the required reporting limit or PQL
- Interferences indicated by serial dilutions results (listed as other stable chemistry qualifications)
- Radiochemical results less than the required reporting limit
- Extra results from less sensitive analytical runs

Results qualified as estimated may generally be usable for the purposes of establishing background concentrations and for comparison to Site-specific sample data; however, a total of 22 soil sample results in the BRC/TIMET background database were rejected and qualified as “R.” Rejected results are presented in Table 14 of the DVSR (provided in Appendix D). The rejected results include pH and radium-228. The pH result was rejected due to holding time issues. Specifically, the pH analysis for one sample was conducted past the extended holding time of 14 days. The effect of extended holding times on soil pH analysis is uncertain; therefore, the result was rejected. Radium-228 results were rejected because of high LCS recoveries and concerns that the results were biased high, confirmed by comparison of radium-228 results to inter-element correlations. The rejection of radium-228 data resulted in an insufficient number of points to evaluate the mixed sample origin (location BRC-BKG-12).

The data validation indicates that the valid (not rejected) BRC/TIMET background dataset as reported in this document (and provided in electronic format in Appendix C) is usable for the intended purposes. With 98.5 percent of the dataset validated as usable, the overall objective of the data collection event was met.

2.4.2 Environ Dataset

As stated above, a partial validation was conducted on the entire Environ dataset by Neptune (NDEP's consultant because the analytical reports provided by the laboratory (STL) were in a format that includes results and QC summaries only. No raw data, instrument calibration data, instrument reporting criteria, or internal standard data were presented for review by Neptune. Stable chemistry sample results for the Environ background soil samples were validated in accordance with the "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA 2004b). Professional judgment and analytical method requirements were used to validate radionuclides data.

Based on data validation and review, Neptune prepared the validation summary memorandum included in Appendix D. The general conclusion is that the validated Environ dataset is suitable for inclusion in the overall soil background dataset based on data quality criteria with the provision that results for hexavalent chromium, radium-224, radium-226, and radium-228 in all samples not be used as discussed below.

The findings indicate that the hexavalent chromium results for the Environ dataset may not be accurate based on holding time exceedances. In this case, samples were analyzed 2 days after the 24-hour holding time (for a total of 3 days past sample extraction). It is recommended that the hexavalent chromium results in the Environ dataset be rejected and not used in the overall soil background dataset.

The Environ dataset for radium-224, -226, and -228 are considered suspect for several reasons, and their inclusion in the overall soil background dataset is not recommended. Specifically, it is unclear how the laboratory calculated the radioactivity of the radium-224 isotope. In addition, a lack of relevant QC information regarding radium-224 builds the case for rejection of results and exclusion of the results from the overall soil background dataset. Similarly, the radium-226 and

radium-228 results should be excluded from the overall soil background dataset. The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommended that this data be reevaluated or rejected. Since full data packages were not available for reevaluation, the data were rejected.

The data validation indicates that the Environ dataset as reported in this document is usable for the intended purposes except for the results for hexavalent chromium and the radium isotopes discussed above.

3.0 STATISTICAL METHODS

Exploratory data analysis and statistical evaluation of background soils data generally followed industry-standard guidance documents and sources from the technical literature (EPA 2000a and 2000b; U.S. Department of Navy 1999 and 2002; Gilbert 1987). These guidance documents discuss graphical presentation of data, selection and application of statistical test of hypotheses, calculation of summary statistics conduct of distributional testing, and treatment of censored (nondetect or ND) data. The following sections discuss data preparation, graphical presentations of data, calculation of descriptive summary statistics, and conduct of statistical tests and comparisons.

3.1 DATA PREPARATION

As discussed in Section 2.4 and Appendix D of this report, BRC/TIMET and Environ datasets were validated before the data were used in the statistical evaluation. All data (except outliers determined to be reporting errors, rejected (R-qualified) data, and QC data) were used in the statistical evaluation. The sections below summarize the details of data preparation.

3.1.1 Spatial Independence Assumptions

Thirty-three soil boring locations were sampled on 11 different properties for the BRC/TIMET data set. The 33 soil boring locations are treated as spatially independent in this background soil study. The concentrations of each analyte at each sampling location and depth depend on the origin of the sediment and the composition of the parent material (except for anthropogenic deposition of analytes such as lead). Naturally occurring variability is associated with the deposition of sediments, and these variations may never be fully characterized and result in unexplainable data clusters. The naturally occurring variability may be impacted by sediment transport, leaching, weathering, and other geochemical processes within the alluvium; therefore,

when statistical tests are performed, it is expected that some spatial correlation may be seen, but the impact of this on the background evaluation is assumed to be negligible, and all sampling locations were therefore treated as independent in the statistical tests and calculations performed for this study.

3.1.2 Data Filtering and Combining Rules

Results from each of the two background analytical datasets were validated. Summaries of the validation of each dataset are presented in Appendix D. In order to prepare the datasets for statistical evaluation, results from each dataset were filtered so that each background soil sample had one result per analyte. The two datasets were then combined into one database. The following steps were taken to filter and combine the Environ and BRC/TIMET datasets into one.

1. Determined initial number of records in each set was determined. The BRC/TIMET dataset contained 11,268 records, and the Environ dataset contained 2,076 records.
2. All laboratory QC sample results were filtered out from both datasets.
3. All field duplicate and split sample results were filtered out from both datasets.
4. A field was added to the Environ dataset to include validation qualifiers consistent with BRC/TIMET qualifiers (only J, U, and R). Appropriate validation qualifiers were then added to the Environ dataset.
5. All rejected (R-qualified) results in both datasets were eliminated (21 individual results for the BRC/TIMET dataset and all hexavalent chromium, radium-224, radium-226, and radium-228 results in the Environ dataset).
6. The gamma spectroscopy-generated duplicate thorium-232 results (designated as Thorium-232DA) in the Environ dataset were filtered out. Results from isotopic thorium analysis were used instead.
7. Chemical names for both datasets were made exactly consistent.
8. Units for both datasets were made exactly consistent.
9. All records for the Environ dataset except for metals and radionuclides results (which originally included pesticides, herbicides, and dioxins/furans results) were filtered out.
10. For both datasets, pH results were filtered out because pH was not included in the statistical evaluations.

11. Percent moisture and cation exchange capacity results were filtered from the BRC/TIMET dataset because percent moisture and CEC were not included in the statistical evaluations.
12. The following fields were added to both datasets: Dataset (Environ or BRC/TIMET), Origin (McCullough, River, or Mixed), and Depth (0, 5, or 10).
13. Field names for both datasets were made consistent so that the datasets could be combined for statistical evaluation.
14. A final subset of fields was identified to conduct the data analysis. All other fields were eliminated. The remaining fields are listed below.
 - ID: Cross-referenced identification number for the data record in the combined dataset
 - Data Set: BRC/TIMET or ENVIRON
 - Origin: McCullough, River, or Mixed
 - Sample ID: Sample identification numbers
 - Location ID: Boring location identification numbers
 - Chemical: Standardized names consistent between datasets
 - Reported Result: Numerical concentration value and actual activity for radionuclides (or sample quantitation limit [SQL] for nondetect metals)
 - Qualifier: Standardized validation qualifiers (U, UJ, J, +, -)
 - Units: Standardized units
 - Rad Error: Two-sigma error for reporting results for radionuclides
 - PQL: Practical quantitation limit (included for comparison purposes only)
 - MDL: Method detection limit (term used by Environ; represents the SQL for BRC/TIMET data)
 - Depth: Single identifier in feet bgs (0, 5, 10)
15. Determined final number of records was determined. The BRC/TIMET dataset contained 8,091 records (representing 78 chemicals for 104 samples minus 21 individual rejected data points). The Environ database contained 608 records (representing 38 chemicals for

16 samples). Note that all results for radium 224, radium 226, radium 228, and Hexavalent chromium were rejected (101 results) and not counted in the final dataset.

16. For direct comparison of the BRC/TIMET and Environ datasets, any chemical analyzed in one study, but not the other, was not considered in the comparison.
17. For direct comparison of the McCullough Range versus River's datasets, any chemical analyzed in one area, but not the other, was not considered in the comparison.

After filtering and prior to final combination of the two datasets, a comparison table was prepared. Table 2 shows the comparison of analyte lists and detection frequencies between the two datasets for metals, anions, and radionuclides. Based on the information shown in Table 2, the observations summarized below were made.

- The BRC/TIMET dataset contains results for 43 metals and anions and 35 radionuclides, and the Environ dataset contains results for 23 metals and anions and 15 radionuclides.
- The sample size for the BRC/TIMET dataset is generally 104 results for each analyte (with a few exceptions). The sample size for the Environ dataset is generally 16 results for each analyte.
- When analyte results are available for both datasets, the detection frequencies were compared. Detection frequencies were notably different for antimony, cadmium, mercury, selenium, silver, thallium, bismuth-212, lead-210, thorium-234, and uranium-235.

Differences in detection frequencies were investigated by reviewing the analytical data to determine if apparent differences in methodology or level of quality may have produced the differences. The same laboratory performed the metals analysis for both background studies; however, a different analytical technique was used to measure the concentrations of antimony, cadmium, selenium, silver, and thallium. Inductively coupled plasma (ICP) was used to measure concentrations of these metals for the BRC/TIMET study, but ICP/mass spectroscopy (MS) was

TABLE 2
DATASET ANALYTE LIST AND DETECTION FREQUENCY

| Metals and Anions | BRC/TIMET Dataset | | Environ Dataset | | Comments on Frequency of Detection and Analytical Differences |
|---------------------|-------------------|---------------------|-----------------|---------------------|---|
| | Sample Size | Detection Frequency | Sample Size | Detection Frequency | |
| Aluminum | 104 | 100.0% | 16 | 100.0% | |
| Antimony | 104 | 47.1% | 16 | 0.0% | Due to difference in analytical technique; ICP versus ICP/MS |
| Arsenic | 104 | 100.0% | 16 | 100.0% | |
| Barium | 104 | 100.0% | 16 | 100.0% | |
| Beryllium | 104 | 100.0% | 16 | 100.0% | |
| Boron | 104 | 32.7% | NA | NA | |
| Cadmium | 104 | 0.0% | 16 | 100.0% | Due to difference in analytical technique; ICP versus ICP/MS |
| Calcium | 104 | 100.0% | NA | NA | |
| Chloride | 104 | 69.2% | NA | NA | |
| Chromium | 104 | 100.0% | 16 | 100.0% | |
| Chromium Hexavalent | 104 | 0.0% | NA | NA | |
| Cobalt | 104 | 100.0% | 16 | 100.0% | |
| Copper | 104 | 100.0% | 16 | 100.0% | |
| Fluoride | 104 | 12.5% | NA | NA | |
| Iron | 104 | 100.0% | 16 | 100.0% | |
| Lead | 104 | 100.0% | 16 | 100.0% | |
| Lithium | 104 | 100.0% | NA | NA | |
| Magnesium | 104 | 100.0% | 16 | 100.0% | |
| Manganese | 104 | 100.0% | 16 | 100.0% | |
| Mercury | 104 | 74.0% | 16 | 100.0% | Reporting limits are consistent; no comment |
| Molybdenum | 104 | 100.0% | 16 | 100.0% | |
| Nickel | 104 | 100.0% | 16 | 100.0% | |
| Niobium | 104 | 0.0% | NA | NA | |
| Nitrate | 104 | 86.5% | NA | NA | |
| Nitrite | 104 | 4.8% | NA | NA | |
| Palladium | 104 | 100.0% | NA | NA | |
| Phosphorus | 104 | 100.0% | NA | NA | |
| Platinum | 104 | 4.8% | NA | NA | |
| Potassium | 104 | 100.0% | NA | NA | |
| Selenium | 104 | 38.5% | 16 | 75.0% | Due to difference in analytical technique; ICP versus ICP/MS |
| Silicon | 104 | 100.0% | NA | NA | |
| Silver | 104 | 0.0% | 16 | 100.0% | Due to difference in analytical technique; ICP versus ICP/MS |
| Sodium | 104 | 100.0% | NA | NA | |
| Strontium | 104 | 100.0% | NA | NA | |
| Sulfate | 104 | 77.9% | NA | NA | |
| Thallium | 104 | 25.0% | 16 | 100.0% | Due to difference in analytical technique; ICP versus ICP/MS |
| Thorium | NA | NA | 16 | 100.0% | |
| Tin | 104 | 99.0% | NA | NA | |
| Titanium | 104 | 100.0% | 16 | 100.0% | |
| Tungsten | 104 | 0.0% | NA | NA | |
| Uranium | 103 | 100.0% | NA | NA | |
| Vanadium | 104 | 100.0% | 16 | 100.0% | |
| Zinc | 104 | 100.0% | 16 | 100.0% | |
| Zirconium | 104 | 100.0% | NA | NA | |

**TABLE 2 (Cont.)
DATASET ANALYTE
LIST AND DETECTION
FREQUENCY (cont.)**

| Radionuclides | BRC/TIMET Dataset | | Environ Dataset | | Comments on Frequency of Detection and Analytical Differences |
|------------------|-------------------|---------------------|-----------------|---------------------|---|
| | Sample Size | Detection Frequency | Sample Size | Detection Frequency | |
| Actinium-227 | 104 | 0.0% | NA | NA | |
| Actinium-228 | 104 | 100.0% | 16 | 100.0% | |
| Bismuth-210 | 104 | 1.0% | NA | NA | |
| Bismuth-211 | 104 | 0.0% | NA | NA | |
| Bismuth 212 | 104 | 61.5% | 16 | 25.0% | No apparent analytical difference |
| Bismuth-214 | 104 | 100.0% | 16 | 100.0% | |
| Cobalt-57 | 104 | 0.0% | NA | NA | |
| Cobalt-60 | 104 | 0.0% | NA | NA | |
| Lead-210 | 104 | 1.0% | 16 | 6.3% | No apparent analytical difference |
| Lead-211 | 104 | 0.0% | NA | NA | |
| Lead-212 | 104 | 100.0% | 16 | 100.0% | |
| Lead-214 | 104 | 100.0% | 16 | 100.0% | |
| Polonium-210 | 104 | 1.0% | NA | NA | |
| Polonium-212 | 104 | 61.5% | NA | NA | |
| Polonium-214 | 104 | 100.0% | NA | NA | |
| Polonium-215 | 104 | 0.0% | NA | NA | |
| Polonium-216 | 104 | 100.0% | NA | NA | |
| Polonium-218 | 104 | 92.3% | NA | NA | |
| Potassium-40 | 104 | 100.0% | 16 | 100.0% | |
| Protactinium-234 | 104 | 0.0% | NA | NA | |
| Radium-223 | 104 | 0.0% | NA | NA | |
| Radium-224 | 104 | 100.0% | NA | NA | |
| Radium 226 | 104 | 92.3% | NA | NA | |
| Radium 228 | 84 | 81.0% | NA | NA | |
| Thallium-207 | 104 | 0.0% | NA | NA | |
| Thallium-208 | 104 | 100.0% | 16 | 100.0% | |
| Thorium-227 | 104 | 0.0% | NA | NA | |
| Thorium-228 | 104 | 100.0% | 16 | 100.0% | |
| Thorium-230 | 104 | 100.0% | 16 | 100.0% | |
| Thorium-231 | 104 | 10.6% | NA | NA | |
| Thorium-232 | 104 | 100.0% | 16 | 100.0% | |
| Thorium-234 | 104 | 61.5% | 16 | 6.3% | No apparent analytical difference |
| Uranium 233/234 | 104 | 43.3% | 16 | 100.0% | |
| Uranium 235 | 104 | 43.3% | 16 | 56.3% | No apparent analytical difference |
| Uranium-238 | 104 | 100.0% | 16 | 100.0% | |

NA

Not analyzed

used for the Environ study. This difference resulted in two apparent distinctions between the study results: (1) ICP alone is not as effective in isolating the analyte of interest and may be affected by spectral interference compared to ICP/MS, and (2) ICP alone has higher detection limits than ICP/MS. For antimony, ICP indicated detectable concentrations of antimony, whereas ICP/MS did not, even though the ICP detection limit is 10 times higher than the ICP/MS detection limit. The differences in antimony results may be due to spectral interference using ICP alone or differences in how vigorously the samples were digested (antimony has a tendency to volatilize during vigorous digestion). In the cases of cadmium, selenium, silver, and thallium, the higher detections in the Environ dataset seem to be attributable to the fact that the ICP/MS detection limit is 10 times lower (more sensitive) than that of ICP alone. In the case of mercury, no analytical differences are apparent that would account for the difference in detection frequencies.

The analytical methods and laboratory used for the radionuclides analyses were the same for both background studies. In addition, the minimum detectable concentrations (MDC) for the identified radionuclides were calculated on a sample-by-sample basis and do not account for the difference in detection frequency. No apparent analytical differences account for the difference in detection frequencies.

3.1.3 Treatment of Data Qualified as Nondetects

Treatment of censored or nondetect results for metals, anions, and other parameters generally followed EPA and Navy guidance (EPA 2000a, 2000b; Navy 1999, 2002). Treatment of radionuclide data qualified as nondetects followed DOE guidance (DOE 1997), which states that, for radionuclide activity data,

“All of the actual values, including those that are negative, should be included in the statistical analysis. Practices such as assigning a zero, a detect limit value, or some in-between value to the below-detectable data point, or discarding those data points can severely bias the resulting parameter estimates and should be avoided.”

For metals and anions, a value of one-half the reported SQL was used as a replacement value for nondetect data in the statistical calculations. Guidance documents discuss a range of replacement methods when the detection frequency is less than 85 percent; however, of the 43 metals and anions in the BRC/TIMET dataset, 28 were detected in at least 85 percent of the samples, 3 were detected in 50 to 85 percent of the samples, 7 were detected in less than 50 percent of the samples, and 5 were not detected in any sample. When detection frequencies fall below 50 percent, no replacement method works particularly well. For simplicity, the summary statistics and plots in this report were prepared using a simple substitution of one-half the SQL. This approach does not preclude use of other methods in future evaluations. The tables in Appendices E through G list the detection frequencies and descriptive summary statistics for the inorganic constituents. Specifically, Tables E-1 through E-5 in Appendix E list the detection rates and other information for the BRC/TIMET dataset, Tables F-1 through F-3 in Appendix F list this information for the Environ dataset and compare the Environ and BRC/TIMET data, and Tables G-1 through G-10 in Appendix G present the statistical summary for combined Environ and BRC/TIMET data.

For radionuclides, the actual reported activities (in picoCuries per gram [pCi/g]) were used in all calculations and plots as specified by DOE guidance (DOE 1997). The detection frequency based on data qualifiers was calculated and reported for all radionuclides in the tables of summary statistics. It is always critical to note and consider detection frequencies when assessing the data for each analyte. The tables of descriptive summary statistics in Appendices E, F and G include the minimum and maximum detected concentrations for radionuclides. When radionuclides are not detected (specifically, below the MDC), the actual measured activity (positive or negative) is reported.

3.1.4 Treatment of Field Duplicate and Split Sample Results

The heterogeneity of soils is typically sufficient so that field QC duplicate samples (co-located) are often handled as independent samples; however, split samples (taken from a single

homogenous mixture of the matrix) may be sufficiently similar so that the data should not be handled independently; therefore, the dataset used to construct the plots and summary statistics presented in this document contains data for the original samples only and not for the split samples. The BRC/TIMET dataset contained 107 samples (104 field samples and 3 split samples), so the descriptive summary statistics show a sample size of 104. The Environ dataset contained 17 samples (16 field samples and 1 split sample), so the descriptive summary statistics show a sample size of 16. The combined BRC/TIMET/Environ dataset includes a total of 120 samples.

Table E-6 in Appendix E presents relative percent differences (RPD) for the BRC/TIMET split samples. Although there are no validation rules for qualifying data based on duplicate/split sample results, RPDs between results can be used to evaluate the homogeneity of a given sample matrix. As a general rule, an RPD greater than 50 percent may indicate that the split sample is not homogeneous. Based on the RPDs presented in Table E-6, RPDs for boron, cobalt, copper, manganese, and fluoride in one or more split sample pair exceeded 50 percent. In the case of boron, the sample result was just above the reporting limit, and the split sample result was just below. For the remaining metals and anions, a review of the analytical data did not reveal any QC issues or miscalculations that would explain the differences. As such, the conclusion is that the matrix is not entirely homogenous for metals and anions. The radionuclide split sample results, with RPDs exceeding 50 percent, have one or both results at or below the MDC; therefore, the RPDs are not meaningful in determining the homogeneity of the matrix for radionuclides.

3.1.5 Identification and Treatment of Outliers

Outliers are measurements that are extremely large or small relative to the rest of the data, and therefore may not be representative of the population sampled (EPA 2000a). Outliers can be identified using formal statistical tests or by qualitative assessment methods, such as examination of graphical displays of the data. For this investigation, quintile probability plots and outlier box

plots were used to identify potential outliers for further investigation. If the potential outlier could not be confirmed to be a transcription or other verifiable error, statistical quantities were calculated with the outlier.

Two outliers were found in the dataset, which is not unusual for a set of this size (more than 8,600 records). Reporting errors were verified and then corrected in the database. One high-value outlier for uranium mass was identified when all uranium data were checked by converting the isotopic activity of uranium-238 to mass (uranium-238 constitutes more than 99 percent of the mass of naturally occurring uranium). This calculation yielded a mass of 2.4 milligrams per kilograms (mg/kg) for the outlier instead of the 7.6 mg/kg result reported by the laboratory. As a result of this calculation, the value of 7.6 mg/kg was excluded from the working dataset. A group of results for radium-228 were also rejected and excluded based on high bias.

A high-value outlier was noted for zinc (121 mg/kg). This outlier had no apparent cause or method for checking the outlier as there was for the high-value outlier for uranium. As a result, this outlier was retained.

3.1.6 Distributional Testing

The Shapiro-Wilk W test was used to test residuals from the parametric analysis of variance (ANOVA) conducted using the combined BRC/TIMET/Environ dataset. Tables G-9 and G-10 include results of the Shapiro-Wilk W test and provide a statistical comparison of metals, anions, and radionuclides collected from background soil of different dept and geologic origin. A p-value less than or equal to 0.05 indicates that the null hypothesis of normality is rejected at the 95 percent confidence level.

The estimated underlying distribution of data, along with the detection frequency and sample size, was used to select the most appropriate statistical test for comparing background soil results from different depths and different origins. Parametric tests were selected when the detection frequency was 100 percent and when the Shapiro-Wilk W test indicated that the residuals

followed a normal distribution. Nonparametric tests were selected when censored (nondetected) measurements were present in one or more groups and for cases where when the Shapiro-Wilk W test indicated that the residuals did not follow a normal distribution.

The estimated distribution, detection frequency, and samples size will also be used to select the most appropriate statistical test for future Site-to-background concentration comparisons needed to meet various project-specific objectives.

3.2 STATISTICAL PLOTS

Statistical plots are used in exploratory data analysis to summarize particular characteristics or identify relationships within the data, evaluate goodness-of-fit to normal or other distributions, identify anomalous data points or outliers, and provide a general data overview. A number of different graphical presentations of the data were used in this background study, including frequency distribution, box-and-whisker, and individual value (location) plots. The preliminary data evaluation included both qualitative (graphical) and graphical and quantitative assessment methods. The BRC/TIMET data was summarized overall and by depth interval, and data was plotted for the various groupings. The BRC/TIMET data was compared to the Environ background data (Environ 2003) using the distribution, box-and-whisker, and individual value plots. In addition, the comparability of data collected from soils in the northern McCullough Range and River Mountains was evaluated. The following sections discuss the graphical analysis of the analytical data. Appendices F and G provide the statistical plots.

3.2.1 Distribution Plots

Frequency histograms, quantile probability plots, and box plots (see Section 3.2.2 were prepared for individual chemicals and data groupings (for example, discrete depth intervals and soil origins) to provide a qualitative summary of the data and to complement goodness-of-fit tests used to evaluate the underlying distribution of the data. Quantile probability plots are also useful for visually identifying outliers and for evaluating the potential presence of multiple populations

in the dataset. Multiple populations are typically identified by inflection points or by discrete clusters of measurements on the probability plots.

Normal probability plots are graphs of measurements, ordered from lowest to highest and plotted against a standard normal distribution function. The vertical axis is scaled in units of concentration (or activity in the case of radionuclides), and the horizontal axis is scaled in units of the normal distribution function (normal quantile). Data that are normally distributed will fall along the diagonal line in the plots of concentration versus the expected normal quantile,

Normal probability plots were created for each analyte and are grouped by dataset in the appendices identified below.

- BRC/TIMET dataset for all samples
 - Figure F-1, Appendix F
 - Figure G-1, Appendix G for BRC/TIMET analytes not included in Environ data
- Environ dataset for all samples (see Figure F-1 in Appendix F)
- Combined BRC/TIMET and Environ dataset
 - Figures G-1 and G-2, Appendix G, for all samples
 - Figures G-3 and G-4, Appendix G, by depth interval
 - Figures G-5 and G-6, Appendix G, by origin

This section discusses the probability plots for the BRC/TIMET data. Probability plots for the Environ dataset, the combined BRC/TIMET and Environ dataset, and data evaluated by origin and by depth are discussed in Section 3.4.

Normal probability plots were used to identify anomalous data points (outliers) and data clusters in the BRC/TIMET dataset. All anomalous data points and clusters were investigated further. Outliers identified from the probability plots are discussed in Section 3.1.5 and included (1) one datum for uranium that was excluded as an analytical error, (2) a group of results for radium-228 that were qualified as rejected and excluded based on high bias, and (3) one high value for zinc that was not excluded from the dataset.

Several data clusters are apparent on the probability plots for the combined data, indicating the potential for more than one population. For example, the probability plots for barium (see Figure F-1 in Appendix F) show a cluster of high values that correspond to samples from location BRC-BKG-12. The samples from location BRC-BKG-12 were reanalyzed for barium, but this approach confirmed the veracity of the original analysis, and inter-element correlations (see Section 3.4.5) did not provide further data insights. In addition, the plots for calcium (see Figure G-1 in Appendix G) show five high-value data points that do not correspond to any one sampling location, and the plots for lead (see Figure F-1 in Appendix F) include some higher concentrations in surface soil that are likely related to anthropogenic background concentrations. The plots also show a few high-value measurements for manganese (see Figure F-1), molybdenum (see Figure F-1), nickel (see Figure F-1), silicon (see Figure G-1), and strontium (see Figure G-1).

None of the five anions (chloride, fluoride, nitrate, nitrite, and sulfate) were detected in all samples, and only nitrate had a detection rate greater than 85 percent. As a result of the presence of a large proportion of nondetect values for anions, the probability plots (see Figure G-1) generally show two populations -- one of all nondetects and the other of all detected concentrations. The detected concentrations appear to constitute a single population for each anion.

Activities of all radionuclides (both measured and back-quantitated) were also plotted for all the BRC/TIMET data (see Figures F-2 and Figure G-2). The probability plots show a range of activities and generally suggest one population for each species. Unlike for some of the metals (such as lead), there does not appear to be anthropogenic enrichment of radionuclides in surface soils.; however, the study does not analyze for fission products (such as cesium or plutonium isotopes) that are typically referred to as “anthropogenic radionuclides.” Analysis for fission products was not done because they do not generally occur naturally and are not site-related chemicals (NAS 1971).

3.2.2 Box-and-Whisker Plots

Box-and-whisker plots provide a method for side-by-side comparison of data groupings or datasets. The box-and-whisker plots generated for this evaluation are outlier box-plots. Outlier box -plots display the full range of data as well as key summary statistics, such as the median, 25th and 75th percentiles (quartiles), and minimum and maximum values. A box-and-whisker plot consists of a box (rectangle) with lines. The length of the box is the interquartile range (IQR); therefore, the box represents the middle 50 percent of the data. The top and bottom of the box are the 25th and 75th percentiles of the distribution. The width of the box is arbitrary. The horizontal line across the middle of the box depicts the median value (the 50th percentile). The upper or lower whisker extends to the highest or lowest data value within the upper or lower limit. Outliers are operationally defined as measurements that exceed the 75th or 25 percentile by 1.5 times the IQR.

Various data groups were examined using outlier box- plots. In Figures F-1 and F-2 in Appendix F, box-and-whisker plots for the BRC/TIMET data are presented alongside the plots for the Environ data. For each chemical and data set, box- plots of the data for individual depth intervals are provided along with probability and individual value plots for the combined depths.. Appendix G provides plots of the combined BRC/TIMET and Environ data (see Figures G-1 and G-2) and plots of the combined BRC/TIMET and Environ data by depth (see Figures G-3 and G-4) and geologic origin (see Figures G-5 and G-6).

The plots in Appendices F and G summarize data for more than 8,000 records. The plots are presented to (1) provide a comprehensive overview of the BRC/TIMET and Environ background soil datasets, (2) compare the BRC/TIMET background dataset to the Environ background dataset, and (3) compare the data for the combined BRC/TIMET and Environ dataset by depth and geologic origin.

3.3 DESCRIPTIVE SUMMARY STATISTICS

Descriptive summary statistics for metals, anions, and radionuclides were calculated for the BRC/TIMET dataset (see Appendix E), the Environ dataset (see Appendix F), and the combined BRC/TIMET and Environ dataset (see Appendix G). Descriptive summary statistics for each dataset were also prepared for each depth interval separately (indicated as 0, 5, and 10 feet bgs intervals for simplicity) and for the subsurface depths combined (data for 5 and 10 feet bgs intervals, if applicable). Statistical calculations were prepared using Neptune's "Guided Interactive Statistical Decision Tool" (GISdT) website for statistical analysis (Neptune 2006).

The descriptive summary statistics calculated for each analyte include the sample size and detection frequency; and for both censored and detected data, the minimum and maximum concentrations, the median, the mean, and the 25th and 75th percentiles (quantiles).

Table 2 summarizes the dataset analyte list and detection frequencies for the BRC/TIMET and the Environ background sample datasets. The following sections discuss the descriptive summary statistics for metals and anions, radionuclides, and other parameters.

3.3.1 Metals and Anions

Cadmium, hexavalent chromium, niobium, silver, and tungsten were not detected in any BRC/TIMET background soil sample. Antimony was not detected in any Environ background soil sample. Antimony, platinum, selenium, and thallium were detected in fewer than 50 percent of the BRC/TIMET samples. Mercury was detected in 74 percent of the BRC/TIMET samples and in all of the Environ samples and the other metals were detected in more than 85 percent of the samples. The comment column in Table 2 includes an explanation where analyte detection frequencies varied significantly between the BRC/TIMET and Environ results. Detection rates for anions in the BRC/TIMET samples ranged from 4.8 percent for nitrite to 86.5 percent for nitrate, with fluoride (12.5 percent), chloride (69.2 percent), and sulfate (77.9 percent) all having detection rates less than 85 percent.

3.3.2 Radionuclides

Activities for 35 radionuclides are reported for the BRC/TIMET dataset, including 22 from direct analysis and 13 that were back-quantitated from longer-lived members of the decay chain, assuming secular equilibrium. The back-quantitated results are designated by an “X” suffix in Table E-6 and more specifically described below. Activities for 15 radionuclides are reported for the Environ dataset. The same descriptive summary statistics for metals and anions are reported for radionuclides with one main difference -- for radionuclides, the actual reported activity is used for all statistical calculations and tests (no substitutions were made for results qualified as nondetections).

Radionuclides results may define a normal distribution around the value defined as calibrated background at the laboratory, even if the results are qualified as nondetect. This situation occurs because of the random nature of counting statistics and the decay processes. Although an MDC is reported by the laboratory and some results are qualified as nondetect, the actual results (including zero and negative results) are used in all statistical calculations. The data are reported as activity (not mass) in units of pCi/g, where a pCi is equal to 10^{-12} Curies and a Curie is defined as $3.7E10$ disintegrations per second, the approximate specific activity of one gram of radium in equilibrium with its disintegration products.

Results for some radionuclides, especially the short-lived species, were back-quantitated from parents in the decay chain, assuming secular equilibrium. Secular equilibrium is radioactive equilibrium that occurs in a closed system when the half-life of the daughter is much less than that of the parent. Figures 2 through 4 show the three major decay chains for uranium-238, uranium-235, and thorium-232.

Radionuclides qualified as nondetect in all BRC/TIMET sample include cobalt-57, cobalt-60, protactinium-234, and thorium-227, along with all the species back-quantitated from these isotopes.

3.3.3 Other Parameters

Supporting parameters analyzed as part of the BRC/TIMET background study included soil texture (particle size analysis), conductivity, CEC, TOC, pH, and percent moisture. As is typical for desert soils, the pH values were slightly alkaline, ranging from about 8.0 to 9.3. Soil texture was dominated by sand and gravel size fractions as expected based on the USDA soil survey (USDA 1985). These soil data are summarized in Table C-4 in Appendix C. These parameters were not analyzed during the Environ study.

3.4 STATISTICAL TESTS AND COMPARISONS

The statistical methods described in EPA (2000a and 2000b) and Navy (1999 and 2002) guidance assume that the data were collected using random sampling and, that measurements are independent. The actual sampling locations for the BRC/TIMET study were selected randomly from accessible upgradient areas. Three borings were installed at each location, with the main selection factor being accessibility rather than judgment of the areas or bias in sample selection. Samples were systematically collected from discrete depth intervals of 0 to 0.5, 4 to 6, and 9 to 11 feet bgs from each boring. A few exceptions to these depths occurred were based on auger refusal during boring or sample retrieval success.

The main statistical problem was determining if the data form more than one population based on statistical comparisons of data from different settings, including (1) Environ and BRC/TIMET sampling locations; (2) sampling depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs); and (3) soils derived from source materials in the northern McCullough Range and River Mountains. To answer these questions, the following groups of data were compared using statistical tests and statistical plots (see Section 3.2):

- BRC/TIMET and Environ dataset

- Combined BRC/TIMET/Environ dataset among depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs)
- Data for soils derived from the River Mountains and the McCullough Range

Results are discussed below.

3.4.1 Statistical Hypothesis Testing

Statistical hypotheses are framed in terms of a null hypothesis (H_0) and an alternative hypothesis (H_A). For this study, the null hypothesis (H_0) was that the datasets were derived from the same population; therefore, rejection of the null hypothesis means acceptance of the alternative hypothesis (H_A), that the populations are different.

In setting up the hypotheses for testing, the tolerable limits on decision errors are specified on the basis of the consequences of making decision errors. There is always uncertainty when dealing with a sample from a population, so these limits can never be zero. Decision errors in statistical hypothesis testing may be described as Type I or Type II errors. In a Type I (false positive) error, the null hypothesis is rejected when in fact it is true. In a Type II (false negative) error, the null hypothesis is accepted when in fact it is false. To set these probability limits on decision errors, alpha (α , the level of significance) and beta (β , complement to the power) are defined below.

- $1-\alpha$ is the confidence level, whereas α is the significance level. So, at 95 percent confidence, α is set at 0.05.
- $1-\beta$ is the power of the test, whereas β is the complement to the power. So, at 80 percent power, β is set at 0.2.

Methods used to evaluate and compare the data groups for this investigation are summarized below.

| Dataset | Distribution Plots | Box-and-Whisker Plots | Individual Value Plots | ANOVA plus Tukey HSD, or Kruskal-Wallis plus Behrens-Fisher |
|---|--------------------|-----------------------|------------------------|---|
| BRC/TIMET | X | X | X | |
| Environ | X | X | X | |
| Combined BRC/TIMET and Environ | X | X | X | |
| Combined BRC/TIMET and Environ – Depth Comparison | X | X | X | X |
| Combined BRC/TIMET and Environ – Geologic Origin Comparison | X | X | X | X |

Note: HSD = Honest Significant Difference

Additional details and discussions of these lists may be found in standard statistical texts (Gilbert 1987, Zar 1998) and in EPA DOA guidance (EPA 2000a, 2006a)

Comparison of concentrations/activities among different depths and geologic origins was conducted for all chemicals in the combined BRC/TIMET and Environ dataset. The R statistical package was used to perform parametric and non-parametric ANOVA modeling and the corresponding post-hoc multiple comparison tests. Neptune conducted the analysis and provided the results to BRC/TIMET for further assessment.

The assessment of differences in concentrations and activities begins with examination of the descriptive summary statistics (see Tables G-1 through G-8 in Appendix G) and exploratory data analysis (see Figures G-3 and G-4) to facilitate interpretation of test results. Tables G-2 through G-4 present the descriptive summary statistics for comparison of data among depths. Figures G-3 and G-4 include the plots comparing data among depths. Tables G-6 through G-8 present descriptive summary statistics for comparison of data among geologic origins. Figures G-5 and G-6 include the plots comparing data among geologic origins. The exploratory data analysis plots contain distributional plots, box-and-whisker plots, and individual result plots for each chemical.

For comparison of data from each depth or geology origin, both the parametric ANOVA and the non-parametric Kruskal-Wallis test were used. ANOVA assesses differences in mean concentrations among groups, and the Kruskal-Wallis model looks for differences in the sum of the ranks among groups. Nondetect results were replaced with half the detection limit (the MDL was used for detection status) in the ANOVA model, and Gehan ranking was used to accommodate nondetects in the Kruskal-Wallis model. Activities are reported as actual values; therefore, there is no meaningful detection status for radionuclides.

Multiple comparison tests were performed for both the ANOVA and the Kruskal-Wallis models. For the ANOVA model, a Tukey Honestly Significant Difference (HSD) test was used for all pair-wise comparisons for the post-hoc multiple comparisons. For the Kruskal-Wallis model, a Behrens-Fisher multiple comparison test was used. The ANOVA model requires that the residuals be normally distributed. The Shapiro-Wilk W test was used to assess the normality of the residuals from the ANOVA model (see Tables G-9 and G-10). If Shapiro-Wilk W test results indicate that the normality assumption is reasonable (for example, a p-value > 0.05), then the ANOVA and Tukey HSD tests provide a reasonable assessment of differences among concentrations and activities; however, if the Shapiro-Wilk W test results indicate that the normality assumption may be unreasonable (for example, a p-value ≤ 0.05), then the Kruskal-Wallis and Behrens-Fisher results probably provide a better assessment of differences among concentrations and activities. Additionally, the nonparametric Kruskal-Wallis and Behrens-Fisher tests were selected when censored data were present in one or more groups. The shaded cells in Tables G-9 and G-10 indicate the results selected for test interpretation. When a minimum of four detected measurements was not applicable, statistical testing was not conducted.

One caveat about the Behrens-Fisher multiple comparison tests is the existence of some sensitivity to relative sample sizes. When there is a large discrepancy between the sample sizes among groups (that is, strongly unbalanced data), the power of the test is low. In these cases, the Kruskal-Wallis test may indicate a difference in concentration or activity, but the Behrens-

Fisher test may find no significant difference in any of the pair-wise comparisons. When there is a large discrepancy between sample sizes among groups, examination of graphical displays of the data are useful for interpreting test results declared significant by the Kruskal-Wallis test.

3.4.2 Comparison of BRC/TIMET and Environ Data

The BRC/TIMET and Environ datasets were evaluated to determine if they could be combined into one dataset for future consideration. Frequency histograms, normal probability plots, outlier box-plots, and individual value plots were used in quantitative or semi-quantitative comparison of the BRC/TIMET and Environ data (see Figures F-1 and F-2 in Appendix F). Besides the exceptions discussed below, much of the Environ data fall within the range of the BRC/TIMET data.

Differences were observed between the two data sets. Arsenic generally had higher concentrations in the BRC/TIMET samples than the Environ samples. Barium generally had higher concentrations in the Environ samples than the BRC/TIMET samples except for the sample from BRC/TIMET location BRC-BKG-12. Copper, magnesium, titanium, and vanadium generally had higher concentrations in BRC/TIMET samples from many locations.

Other differences between the BRC/TIMET and Environ datasets are summarized below.

- The BRC/TIMET dataset is considerably larger (n = 104) than the Environ dataset (n = 16).
- Environ did not analyze samples for anions, calcium, lithium, potassium, sodium, strontium, and others.
- The reporting limits differed between the two studies for some analytes (such as antimony, hexavalent chromium, and silver).
- The level of data validation between the two studies was inconsistent.
- The Environ dataset included invalidated data for radium-224, radium-226, and radium-228.

- Different analytical methods were used in the two studies.
- Sampling intervals differed. For example, the Environ sampling intervals were 0 to 1 and 3 to 4 feet bgs, and the BRC/TIMET sampling intervals were 0 to 0.5, 4 to 6, and 9 to 11 feet bgs.

Overall, the samples for the BRC/TIMET study appear to have captured a fair range of natural variability and heterogeneity and typically show a wider range of concentrations and activities than samples from the Environ study. Because the BRC/TIMET data span a broader geographic area and include 104 samples (compared to 16 samples for the Environ study), this outcome is not unexpected. The results of this analysis indicate that the BRC/TIMET and Environ datasets are generally comparable and can be combined for further statistical evaluation and comparison.

3.4.3 Comparison of BRC/TIMET/Environ Data by Depth Interval

As discussed in the Workplan (see Appendix A), soil samples were collected from three depth intervals for the BRC/TIMET background soil study: 0 to 0.5, 4 to 6, and 9 to 11 feet bgs. For the Environ study conducted for the City of Henderson, soil samples were collected from eight borings from 0 to 1 and 3 to 4 feet bgs.

Data for samples from each depth interval were compared using the statistical tests discussed in Section 3.4.1. Multiple population tests were selected and used to compare data among surface, middle, and deep soil samples. Table G-9 in Appendix G summarizes the results. Results that are statistically significant at the 0.05 significance level are shaded in the table. Frequency histograms, normal probability plots, outlier box-plots, and individual value plots presented in Figures G-3 and G-4 compare the data by depth interval and offer a visual qualitative or semi-quantitative assessment of differences for each analyte among the data groups. Statistical tests provide a quantitative analysis to determine if the differences are statistically significant at a specified level (for example, 0.05).

Table 3 summarizes the statistical comparison results for metals, anions, and radionuclides among the depths intervals for the BRC/TIMET/Environ background samples. The conclusions and recommendations for the dataset and the data subset use presented in Table 3 are based on further review and comparison of analyte plots and summary statistics, analytical methods, mineralogical considerations, and chemical characteristics (such as mobility).

Table 3

Summary of Statistical Comparison of Metals, Anions, and Radionuclides Among Depth Intervals for BRC/TIMET and Environ Background Soil Samples

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|-----------------------|--------------------------------------|---|---|
| Metals (mg/kg) | | | |
| Aluminum | 0>10 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Antimony | 0>5 | Differences attributed to analytical variability; all results near or below reporting limit | Combine data from all depths |
| Arsenic | None | No significant difference among depths | Combine data from all depths |
| Barium | None | No significant difference among depths | Combine data from all depths |
| Beryllium | None | No significant difference among depths | Combine data from all depths |
| Boron | None | No significant difference among depths | Combine data from all depths |
| Cadmium | None | No significant difference among depths | Combine data from all depths |
| Calcium | 0<10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface (0 foot), and combined subsurface (5 and 10 feet bgs) |
| Chromium | 0>5, 0>10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface (0 foot), and combined subsurface (5 and 10 feet bgs) |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------|--------------------------------------|--|---|
| Cobalt | None | No significant difference among depths | Combine data from all depths |
| Copper | None | No significant difference among depths | Combine data from all depths |
| Iron | 0>5, 0>10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface (0 foot), and combined subsurface (5 and 10 feet bgs) |
| Lead | 0>5, 0>10, 5>10 | Differences among surface (0 feet), mid-depth (5 feet bgs), and deep (10 feet bgs) concentrations due to anthropogenic sources | Surface, 5-foot-bgs subsurface, and 10-foot-bgs subsurface |
| Lithium | 5<10 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Magnesium | 0>5, 5<10 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Manganese | 0>5, 0>10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Mercury | 0>5, 0>10 | Differences attributed to sample and analytical variability; many results below reporting limit | Combine data from all depths |
| Molybdenum | None | No significant difference among depths | Combine data from all depths |
| Nickel | 0>5 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Palladium | 0<5, 0<10, 5<10 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Phosphorus | None | No significant difference among depths | Combine data from all depths |
| Platinum | NA | Insufficient number of detected concentrations | Combine data from all depths |
| Potassium | 0>5, 0>10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|-----------------------|--------------------------------------|---|--|
| Selenium | 0>10 | Differences attributed to analytical variability; all results near or below reporting limit | Combine data from all depths |
| Silicon | None | No significant difference among depths | Combine data from all depths |
| Silver | None | No significant difference among depths | Combine data from all depths |
| Sodium | 0<5, 0<10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Strontium | 0<5, 0<10, 5<10 | Differences attributed to naturally occurring sample variability | Combine data from all depths |
| Thallium | None | No significant difference among depths | Combine data from all depths |
| Tin | 0>5, 0>10 | Differences attributed to analytical variability; all results near or below reporting limit | Combine data from all depths |
| Titanium | None | No significant difference among depths | Combine data from all depths |
| Uranium | 0<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near-surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Vanadium | None | No significant difference among depths | Combine data from all depths |
| Zinc | 0>5, 0>10 | Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Zirconium | None | No significant difference among depths | Combine data from all depths |
| Anions (mg/kg) | | | |
| Chloride | 0<5, 0<10 | Differences between surface and combined subsurface concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Fluoride | None | Insufficient number of detected concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------------------------|--------------------------------------|--|--|
| Nitrate | 0<5, 0<10 | Differences between surface and combined subsurface concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Nitrite | None | Insufficient number of detected concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Sulfate | 0<5, 0<10 | Differences between surface and combined subsurface concentrations | Surface, and combined subsurface (5 and 10 feet bgs) |
| Radionuclides (pCi/g) | | | |
| Actinium-227 | None | No significant difference among depths | Combine data from all depths |
| Actinium-228 | None | No significant difference among depths | Combine data from all depths |
| Bismuth-210 | 0>5, 5<10 | Insufficient number of detected activities | Combine data from all depths |
| Bismuth-211 | None | No significant difference among depths | Combine data from all depths |
| Bismuth-212 | 0<10 | No differences among depths | Combine data from all depths |
| Bismuth-214 | None | No significant difference among depths | Combine data from all depths |
| Cobalt-57 | 0>5, 5<10 | Insufficient number of detected activities | Combine data from all depths |
| Cobalt-60 | 0<10 | Insufficient number of detected activities | Combine data from all depths |
| Lead-210 | 0>5 | Insufficient number of detected activities | Combine data from all depths |
| Lead-211 | None | No significant difference among depths | Combine data from all depths |
| Lead-212 | None | No significant difference among depths | Combine data from all depths |
| Lead-214 | 0<10, 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Polonium-210 | 0>5, 5<10 | Insufficient number of detected activities | Combine data from all depths |
| Polonium-212 | None | No significant difference among depths | Combine data from all depths |
| Polonium-214 | 0<10 | No differences among depths | Combine data from all depths |
| Polonium-215 | None | No significant difference among depths | Combine data from all depths |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------------|--------------------------------------|--|--|
| Polonium-216 | None | No significant difference among depths | Combine data from all depths |
| Polonium-218 | 0<10, 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Potassium-40 | None | No significant difference among depths | Combine data from all depths |
| Protactinium-234 | None | No significant difference among depths | Combine data from all depths |
| Radium-223 | None | No significant difference among depths | Combine data from all depths |
| Radium-224 | None | No significant difference among depths | Combine data from all depths |
| Radium-226 | 0<10, 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Radium-228 | None | No significant difference among depths | Combine data from all depths |
| Thallium-207 | None | No significant difference among depths | Combine data from all depths |
| Thallium-208 | None | No significant difference among depths | Combine data from all depths |
| Thorium-227 | None | No significant difference among depths | Combine data from all depths |
| Thorium-228 | 0>10 | No differences among depths | Combine data from all depths |
| Thorium-230 | 0<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Thorium-231 | None | No significant difference among depths | Combine data from all depths |
| Thorium-232 | None | No significant difference among depths | Combine data from all depths |
| Thorium-234 | None | No significant difference among depths | Combine data from all depths |
| Uranium-233/234 | 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|-------------|--------------------------------------|--|--|
| Uranium-235 | 0>5, 0<10, 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |
| Uranium-238 | 0<5, 0<10, 5<10 | Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples | Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs) |

Notes:

bgs Below ground surface
mg/kg Milligram per kilogram
pCi/g PicoCurie per gram

Metals and Anions

Results of statistical tests comparing the BRC/TIMET metals data grouped by depth indicate that there are no significant differences for 15 of the 35 metals evaluated. Results for all comparisons by depths are summarized in Table 3. The conclusions and recommendations for data sets use are presented in Table 3 are based on a review of results from the statistical analysis as well as other considerations. The results suggest that data from all depths can be combined for future statistical evaluation of 26 metals. Segregation of lead data by sample depth should be considered for future statistical evaluations. Concentrations of lead were higher at the surface and declined with depth, consistent with likely anthropogenic sources of lead. Metals such as lead that have a high “anthropogenic remobilization factor” (Salomons and Forstner 1984) show slightly elevated concentrations in surface soil compared to subsurface soil. This difference likely results from anthropogenic background, which differs from natural background, but is not site-related contamination. The concentrations of chromium, iron, manganese, potassium, and zinc are higher in surface soils than subsurface soils. Concentrations of calcium and sodium are lower in surface soils than subsurface soils. Segregation of data into surface (0 feet bgs) and combined subsurface (5 and 10 feet bgs) datasets should be considered for future use. Uranium concentrations were lower in surface and mid-depth soils (0 and 5 feet bgs) than in the 10-foot-bgs soils. Segregation of uranium data into surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs datasets should be considered for future statistical evaluation.

For anions with detection rates greater than 50 percent (chloride, nitrate, and sulfate), the comparisons show statistically significant differences between the surface and each subsurface interval but not between the two subsurface intervals. These results suggest that the two subsurface intervals can be combined and treated as a single population for future comparisons of site and background data but that surface soil data may be better treated as a separate group.

Radionuclides

Results of statistical tests comparing radionuclide activities among different sampling depths are presented in Table G-9 and summarized in Table 3. Results of statistical tests comparing data for BRC/TIMET radionuclides grouped by depths indicate that there are no significant differences for 20 of the 35 radionuclides evaluated. Two radionuclides; uranium-235 and uranium-238, showed significant differences among all depths, with the highest activities at 10 feet bgs.

Significant differences for uranium-238 and daughter product activities were found between 0 and 10, and 5 and 10 feet bgs. These results suggest that the data for uranium-238 and its daughter products can be pooled and treated as a single data set for the 0- and 5-foot-bgs depths, even though there are some statistical differences. The differences between the near-surface (0 and 5 feet bgs) and 10-foot-bgs soils should be considered when using uranium-235 and uranium-238 decay chain background data for future site comparisons.

For the remaining radionuclides, based on professional judgment, the differences are not significant enough to warrant the creation of separate datasets.

3.4.4 Comparison of McCullough Range and River Mountain Data for BRC/TIMET/Environ Dataset

The comparison of background data for the McCullough Range and the River Mountains included an evaluation of the soil types and geology of the two ranges and sample results from the BRC/TIMET and Environ background sampling locations. Several different soil types are mapped across the area as described in Section 1.3 of the Workplan (see Appendix A). The soil types observed downgradient from the McCullough Range and River Mountains are similar, which is expected because the geologic map indicates that similarly mapped rock units comprise the northern McCullough Range and River Mountains (see Figure 1). Because the main factors of soil formation (parent material, climate, topography, biota, and time) are the same for alluvial fans derived from both ranges, the concentrations of metals and the activities of radionuclides

should be comparable (Birkeland 1984). The comparability of anions was not evaluated because the Environ study did not include analyses for anions.

The combined BRC/TIMET/Environ data set was evaluated using frequency histograms, normal probability plots, outlier box-plots, and individual value plots to qualitatively or semi-quantitatively assess the comparability of metals and radionuclides data for areas downgradient of the McCullough Range and River Mountains (see Figures G-5 and G-6). Data for samples from each geologic origin were compared using the statistical tests discussed in Section 3.4.1. Multiple population tests were selected and used to compare data among the McCullough Range, River Mountain, and mixed soil samples (see Table G-10). Results that are statistically significant at a p-level of 0.05 are shaded in Table G-10.

BRC/TIMET sampling locations on properties BRC-BKG-1 through BRC-BKG-9 and BRC-BKG-11, and Environ sampling locations BG-01 through BG-03 are downgradient of the McCullough Range. The BRC/TIMET sampling location on property BRC-BKG-12 and Environ sampling location BG-04 are located in an alluvial fan area downgradient from both the McCullough Range and River Mountains. Environ sampling locations BG-05, BG-06, BG-07, and BG-08 are located downgradient from the River Mountains.

In summary, 33 locations were sampled on alluvial fan materials downgradient of the McCullough Range; 4 soil boring locations were sampled on combined alluvial fan materials from both the McCullough Range and River Mountains; and 4 locations were sampled on alluvial fan materials downgradient of the River Mountains.

Table 4 summarizes the statistical comparisons results for metals and radionuclides among geologic origins for the BRC/TIMET/Environ background samples. The table lists the analytes and summarizes statistical differences among geologic origins, if present. The conclusions and recommendations for dataset and data subset use in Table 4 are based on further review and

comparison of analyte plots and summary statistics, analytical methods, mineralogical considerations, and chemical characteristics (such as mobility).

In general, the box-and-whisker plots show that the heterogeneity of samples collected from the 31 locations downgradient from the northern McCullough Range encompasses the range of concentrations or activities detected at the four sampling locations on the mixed alluvial fan and the four sampling locations downgradient from the River Mountains.

Table 4

Summary of Statistical Comparison of Metals and Radionuclides Among Geologic Origins in BRC/TIMET/Environ Background Soil Samples

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|----------------------------------|--------------------------------------|---|-------------------------------|
| Metals and Anions (mg/kg) | | | |
| Aluminum | Mc>Mx, Mx<R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Antimony | None | No significant difference among soil types | Combine data from all origins |
| Arsenic | Mc>R, Mx>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Barium | Mc<R, Mc<Mx | Differences are unexplained | Mc, combined Mx and R |
| Beryllium | Mc>R, Mx>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Boron | None | Insufficient number of detected concentrations | Combine data from Mc and Mx |
| Cadmium | None | No significant difference among soil types | Combine data from all origins |
| Calcium | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine Mc and Mx |
| Chromium | None | No significant difference among soil types | Combine data from all origins |
| Cobalt | Mc>R, Mx>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Copper | Mc>R, Mx>R | Differences between combined Mc and Mx and R samples | Combined Mc and Mx, R |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------|--------------------------------------|---|-------------------------------|
| Iron | Mc>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Lead | Mc<R, Mc<Mx | Data range for Mc generally includes data range for Mx and R; R data set does not include deep (10-foot-bgs) samples ¹ | Combine data from all origins |
| Lithium | None | No significant difference among soil types | Combine data from Mc and Mx |
| Magnesium | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Manganese | None | No significant difference among soil types | Combine data from all origins |
| Mercury | Mc<R, Mx<R | Data range for Mc generally includes data range for Mx and R; many results below reporting limit ¹ | Combine data from all origins |
| Molybdenum | Mc>R, Mx>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Nickel | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R | Combine data from all origins |
| Palladium | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Phosphorus | Mc>Mx | Mc and Mx differ | Mc, Mx |
| Platinum | NA | Insufficient number of detected concentrations | Combine data from all origins |
| Potassium | None | No significant difference among soil types | Combine data from all origins |
| Selenium | None | No significant difference among soil types | Combine data from all origins |
| Silicon | None | No significant difference among soil types | Combine data from all origins |
| Silver | None | No significant difference among soil types | Combine data from all origins |
| Sodium | None | No significant difference among soil types | Combine data from all origins |
| Strontium | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Thallium | Mx>R | Differences due to different detection limits from different analytical methods | Combine data from all origins |
| Tin | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------------------------|--------------------------------------|---|-------------------------------|
| Titanium | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Uranium | Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Vanadium | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Zinc | Mc>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Zirconium | Mc>Mx | Mc and Mx may differ | Mc, Mx |
| Radionuclides (pCi/g) | | | |
| Actinium-227 | None | No significant difference among soil types | Combine data from all origins |
| Actinium-228 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Bismuth-210 | None | No significant difference among soil types | Combine data from all origins |
| Bismuth-211 | None | No significant difference among soil types | Combine data from all origins |
| Bismuth-212 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R; many results below reporting limit ¹ | Combine data from all origins |
| Bismuth-214 | None | No significant difference among soil types | Combine data from all origins |
| Cobalt-57 | None | No significant difference among soil types | Combine data from all origins |
| Cobalt-60 | None | No significant difference among soil types | Combine data from all origins |
| Lead-210 | Mc<R, Mx<R | Insufficient detected data to allow comparison | Combine data from all origins |
| Lead-211 | None | No significant difference among soil types | Combine data from all origins |
| Lead-212 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Lead-214 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Polonium-210 | None | No significant difference among soil types | Combine data from all origins |
| Polonium-212 | None | No significant difference among soil types | Combine data from all origins |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|------------------|--------------------------------------|---|-------------------------------|
| Polonium-214 | Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Polonium-215 | None | No significant difference among soil types | Combine data from all origins |
| Polonium-216 | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Polonium-218 | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Potassium-40 | Mc<R, Mc<Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Protactinium-234 | None | No significant difference among soil types | Combine data from all origins |
| Radium-223 | None | No significant difference among soil types | Combine data from all origins |
| Radium-224 | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Radium-226 | Mc>Mx | Data range for Mc generally includes data range for Mx ¹ | Combine data from Mc and Mx |
| Radium-228 | Mc<Mx | Insufficient number of valid results for Mx and R | Combine data from all origins |
| Thallium-207 | None | No significant difference among soil types | Combine data from all origins |
| Thallium-208 | Mc>R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Thorium-227 | None | No significant difference among soil types ¹ | Combine data from all origins |
| Thorium-228 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Thorium-230 | Mc>Mx, Mx<R | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Thorium-231 | None | No significant difference among soil types | Combine data from all origins |
| Thorium-232 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R ¹ | Combine data from all origins |
| Thorium-234 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R; many results below reporting limit ¹ | Combine data from all origins |
| Uranium-233/234 | None | No significant difference among soil types | Combine data from all origins |

| Analyte | Statistical Differences Among Depths | Conclusions | Recommended Data Set Use |
|-------------|--------------------------------------|---|-------------------------------|
| Uranium-235 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R; many results below reporting limit; R data set does not include any deep (10-foot-bgs) samples ¹ | Combine data from all origins |
| Uranium-238 | Mc>R, Mc>Mx | Data range for Mc generally includes data range for Mx and R; R data set does not include any deep (10 ¹ -foot-bgs) samples ¹ | Combine data from all origins |

Notes:

- Mc = McCullough Range sample
- Mx = Mixed McCullough Range and River Mountain sample
- NA = Insufficient number of detected measurements to conduct tests
- R = River Range sample
- 1 No known anthropogenic geological or geo-chemical differences to support the creation of more than one dataset.

Several exceptions to this generalization were noted. Barium concentrations appeared significantly greater in samples from BRC/TIMET location BRC-BKG-12a, b, and c (on material derived from both the River Mountains and the McCullough Range) and in samples from the Environ locations BG-05 through BG-08 (sampled fan materials derived from the River Range) than for samples collected from the other 31 locations. Data for other alkaline and alkaline-earth metals (calcium, lithium, potassium, sodium, and strontium) were evaluated for similar differences, but none were apparent. Concentrations of copper appeared to be generally but not consistently lower in the River Range than the McCullough Range and mixed soils samples. Concentrations of phosphorus and zirconium, which were not analyzed in the River Range samples (Environ), are generally but not consistently lower in the mixed soils than the McCullough Range soils samples. These differences should be considered when using these data for future comparisons.

Statistical differences shown by the multiple population tests for other metals and radionuclides were evaluated, but the results, were confounded by the disparity in sample size among origins as well as the high frequency of measurements at or near the reporting limit. The data range for the McCullough Range soil samples in these cases generally includes the data range for the River Mountains and the mixed soil samples. These results suggest that data from all origins can be treated as a single population for future comparisons of site to background data.

In summary, with the few exceptions described above, the concentrations of metals and activities of radionuclides in samples from the McCullough Range, the River Mountains, and mixed soils are comparable.

3.4.5 Inter-Element Correlations for BRC/TIMET Data

In addition to statistical tests and plots comparing data for soil samples from different depths, locations, and studies, the data were evaluated with respect to inter-element correlations. Correlations or “measures of association” are of interest because they offer another line of

evidence to distinguish background and non-background data (Navy 2002) or multiple populations of data.

Scatter plots with regression lines (and 95 percent confidence intervals for the regression) provide a visual assessment of inter-element associations, and calculated correlation coefficients provide a quantitative measure of the association. The plots in Appendix E show the data and the correlation coefficients for linear regression. EPA statistical guidance discusses several different types of correlation measures (EPA 2000a). Pearson's product-moment correlation coefficient was used and is the most common measure of association, although this calculation does assume a linear relationship and is sensitive to outliers.

Correlations between alkaline metals and alkaline-earth metals; aluminum and trace metals; silicon with selected metals; and radionuclide decay chain parent and daughter products were evaluated as summarized below.

Metals and Anions

Relationships were examined through the use of regression analysis and creation of scatter plots with regression estimates as a measure of the associations between alkaline metals and alkaline-earth metals; silicon with selected metals; and aluminum and trace metals. Selected plots are provided in Appendix E and discussed below.

Certain inter-element relationships are expected on the basis of geochemical behavior and expected mineralogical associations. For example, alkaline metals (such as lithium, sodium, and potassium) and alkaline-earth metals (such as barium, calcium, and magnesium) can be expected to behave similarly in solution and may therefore be expected to show an association in certain environmental media. Other metals are found in association in common minerals and show correlations in soils containing these minerals (such as feldspars; metal oxides such as hematite, goethite and pyrolusite; and carbonate minerals such as calcite). These associations are useful in

distinguishing soils derived from different source materials and in distinguishing site-related contamination from natural background.

The association of aluminum with trace metals was evaluated, and statistically significant associations were found for cobalt, chromium, nickel, copper, iron, manganese, phosphorus, titanium, and vanadium (see Appendix E). Trace metals such as cobalt, chromium, copper, nickel, and vanadium may occur as impurities in the common aluminosilicate family of minerals known as feldspars. Clays and other secondary aluminum minerals in soils may host sorption sites for trace metals, thereby associating these metals.

Strong inter-element correlations are normally expected between alkaline and alkaline-earth metals. A secondary population of samples with higher concentrations of barium resulted in poor correlations of barium with these and other analytes. The higher concentrations of barium in some samples, although greater than much of the BRC/TIMET background population, are not greater than the natural range for barium. As such, the barium results are accepted as background conditions because of the diligence used in the selection of sampling locations and the lack of known anthropogenic sources of barium. Correlations between most of the other alkaline and alkaline-earth metals are stronger, as expected. Table E-7 summarizes the correlation coefficients for alkaline and alkaline-earth metals.

A few samples contained silicon at concentrations at the high end of the range for most of the BRC/TIMET background soil samples. Whereas most samples contained about 300 to 1,400 mg/kg silicon, nine samples contained about 2,500 to 4,300 mg/kg silicon. Scatter plots of silicon versus several metals clearly show the cluster of high-silicon samples. Potassium is the only metal that shows a statistically significant correlation with silicon for all samples together or for the small cluster. Clay minerals and potassium feldspar contain potassium and silicon, so this association is expected; however, the lack of other metals (vanadium, aluminum, and iron) correlating with silicon suggests that most silicon is present as quartz. Despite this lack of

correlation, the range of silicon concentrations represents background conditions and should not impact the validity or use of the BRC/TIMET background dataset.

Radionuclides

Data for radionuclides in the thorium-232 and uranium-238 decay chains were evaluated for correlations of the parent and daughters within each decay chain. Relationships were examined through the use of regression analysis and creation of scatter plots with regression estimates as a measure of the associations.

Scatter plots with correlation analysis were constructed for radionuclides within the thorium-232 and uranium-238 decay chains and are included in Appendix E. Tables E-8 and E-9 summarize the correlation coefficients for radionuclides in the thorium-232 and uranium-238 decay chains. Species within the decay chains (parents and daughters) should show statistically significant correlations in most cases unless there are great differences in geochemical behavior and sufficient mechanisms to separate the species. The same generally holds true for radionuclides in the thorium-232 decay chain (actinium-228, bismuth-212, radium-228, thorium-228, and thallium-208). In general, most of the radionuclides in the uranium-238 decay chain (bismuth-214, lead-210, lead-214, protactinium-234, radium-226, thorium-230, thorium-234, and uranium-234) did show statistically significant associations. Appendix E provides scatter plots of the correlation of radium-226 activities with lead-214, thorium-230, uranium-234, and uranium-238.

Scatter plots are also useful for showing outliers, such as the reported value of 7.6 mg/kg uranium in one sample, and for checking the accuracy of analytical results. For example, the measured activity (in pCi/g) for uranium isotopes should correlate directly with the measured mass (in mg/kg) of uranium. If the correlation coefficient for this relationship is calculated including the 7.6 mg/kg outlier, the correlation coefficient (r) is 0.153 and is not statistically significant. Without plotting the data, the reason for the poor correlation may not be obvious.

Excluding this outlier results in a statistically significant correlation coefficient of 0.519 (see Appendix E).

Another check of the accuracy of the analytical results for uranium isotopes is the comparison of uranium-234 and uranium-238 activities. Although uranium-238 constitutes more than 99 percent of the mass of natural uranium, uranium-234 is much more radioactive than uranium-238. This results in an activity ratio of 1 for uranium-234: uranium-238 in naturally occurring uranium. Regression analysis shows a strong relationship ($r = 0.876$) between the activities of these two uranium isotopes (see Appendix E).

4.0 SUMMARY AND CONCLUSIONS

The purpose of the BRC/TIMET background study was to collect and analyze background soil samples for metals and radionuclides to develop a background dataset for comparison to Site soil data. Sampling was conducted in 2005, and soil samples were analyzed to provide a large dataset considered representative of background conditions for future site-to-background data statistical comparisons. The specific goals of this study are outlined in the Workplan (see Appendix A). The goals of the background study were met, and a valid background dataset has been generated.

Samples were collected from 11 properties from 33 soil boring locations that represent the range of soils found in the vicinity of the Site. It is reasonable to conclude that the background samples collected reflect background conditions for Site soils based on sampling location characteristics information obtained from published documentation, site inspection, and sample collection.

A total of 104 independent soil samples were collected from the 33 borings for analysis. The TIMET project team chemist conducted data validation for the BRC/TIMET dataset that included 10 percent full validation and 90 percent partial validation. Results qualified as estimated based on the data validation are usable for the purposes of establishing background concentrations and for comparison to site-specific sample data. A total of 22 soil sample results (1.5 percent) were rejected. With 98.5 percent of the dataset validated as usable, the overall data collection objectives for the event were met.

Based on the Workplan, the minimum number of samples required to adequately characterize the chemistry of background samples was determined to be 24 samples from each depth interval, with a minimum of 72 samples. A sufficient sample of the population is available to support statistical comparisons of on-site and background datasets because at least 33 samples were collected from each depth interval and 104 samples were collected and analyzed. The dataset is

large enough to provide high levels of confidence and power in future Site-to-background statistical comparisons. The data can be used as one dataset or as subsets of several datasets depending on site-specific needs (such as surface soil analysis only). In addition to the analysis presented in Section 3.4, combining or separating the background dataset by depth for subsequent comparison with Site data will be influenced by potential exposures at varying depth ranges of a particular receptor – in other words, based on data usability considerations.

NDEP's contractor Neptune prepared a validation summary memorandum for the Environ background data set prepared for the City of Henderson (see Appendix D). The general conclusion is that the Environ dataset is suitable for inclusion into a soil background dataset; however, Environ dataset results for hexavalent chromium, radium-224, radium-226, and radium-228 should not be used.

The validated BRC/TIMET and Environ data were evaluated statistically using statistical plots, calculation of summary statistics, and statistical tests of hypothesis. Only two outliers were found in the BRC/TIMET dataset. One high-value outlier for uranium-238 was excluded from the working dataset. A high-value outlier for zinc was also noted but retained. Hexavalent chromium, radium-224, radium-226, and radium-228 results from the Environ dataset were excluded from statistical evaluation.

Normal probability plots and box-and-whisker plots were prepared to conduct comparison of BRC/TIMET data by depth intervals and location, comparison of BRC/TIMET and Environ data, and comparison of results for the combined BRC/TIMET/Environ dataset among depths and origins.

The statistical test of background soil sample data, based on location, suggest a number of statistically significant differences; however, because the data represent the range of background conditions at the site, there is no rationale for dividing the data into separate datasets based on location, soil origin, or study. The data are taken to represent the range of background

conditions of the site because (1) the analytes are naturally occurring; (2) samples were collected from soil materials derived from the same geologic source materials, exposed to the same weathering processes and in the same general vicinity; and (3) the sampling locations are not impacted by Site industrial activity or localized anthropogenic sources. In some cases, separate datasets may be used based on the statistical analysis results among depth intervals.

The following sections summarize the results for metals and anions, radionuclides, other parameters, comparison of BRC/TIMET and Environ data, comparison of BRC/TIMET/Environ data by depth intervals, and comparison of BRC/TIMET/Environ data by geologic setting.

4.1 METALS AND ANIONS

The BRC/TIMET data for naturally occurring metals and anions show a wide range of concentrations. The natural heterogeneity in soil chemistry reflects source material subjected to various soil-forming processes. Each BRC/TIMET sample was analyzed for a total of 43 metals and anions. Each Environ sample was analyzed for a total of 23 metals. No anions were analyzed in the Environ study.

4.2 RADIONUCLIDES

Activities for 35 radionuclides were reported for the BRC/TIMET study, including 22 from direct analysis and 13 that were back-quantitated. Activities for 15 radionuclides were reported for the Environ background study.

4.3 OTHER PARAMETERS

The BRC/TIMET background soil sample analyses included parameters such as pH, conductivity, TOC, and soil texture to provide additional insights into the comparability of soil samples collected from site and background areas or from different areas within a site. Because the concentrations of metals in solid media (such as soil and sediment) may be correlated with

grain size or TOC and because pH can radically affect the mobility of metals, collection and evaluation of data for supporting parameters may be used to assist in data evaluation.

4.4 COMPARISON OF BRC/TIMET AND ENVIRON DATA

The background soil samples for the BRC/TIMET study have a fair range of natural variability and heterogeneity; including as wide or wider range of concentrations as those found for the Environ background study. As such, the two data sets are not inconsistent with each other. Because the BRC/TIMET data span a broader geographic area and include 104 samples compared to 16 samples collected for the Environ study, this outcome is not unexpected. The results of this analysis indicate that the BRC/TIMET and Environ datasets are generally comparable and can be combined for further statistical evaluation and comparisons.

4.5 COMPARISON OF BRC/TIMET/ENVIRON DATA BY DEPTH INTERVAL

The results from comparison of the BRC/TIMET/Environ dataset among depth intervals suggest that data from all sampling intervals can be combined for future statistical evaluation for most metals; however, statistical evaluation and other considerations indicate significant differences for nine metals. The differences for lead likely result from anthropogenic background conditions, which differ from natural background conditions but which are not attributable to site-related contamination. Calcium, sodium, and uranium results indicate increasing concentrations with depth. Conversely, chromium, iron, lead, manganese, potassium, and zinc concentrations decrease with depth. These differences in surface and subsurface soil concentrations should be considered when using these background data for future comparisons.

Two radionuclides; uranium-235 and uranium-238 showed significant differences among all depths, with the highest activities at the 10 foot depth. The differences between the near surface (0 to 5 foot) and 10 foot depths soils should be considered when using uranium- 235 and uranium-238 decay chain background data for future site comparisons. For the remaining

radionuclides, based on professional judgment, the differences are not significant enough to create separate data sets.

4.6 COMPARISON OF MCCULLOUGH RANGE AND RIVER MOUNTAINS BACKGROUND DATA FOR BRC/TIMET/ENVIRON DATASET

The source rocks and soil types for the McCullough Range and River Mountains are similar, and the main factors for soil formation are the same for the alluvial fans derived from both ranges. The heterogeneity of the samples collected from alluvial fan materials from the northern McCullough Range generally encompass the range of concentrations found in the mixed alluvial fan locations and the River Range alluvial fan locations. Based on comparison of the BRC/TIMET/Environ dataset for areas downgradient from the McCullough Range and the River Mountains, with a few exceptions, the concentrations of metals and radionuclides in soil samples are comparable.

5.0 STATISTICAL GUIDANCE

Decisions on how best to use the background soils data for future Site-to-background comparisons will be made on a case-by-case basis. Exploratory data analysis using quantitative statistical analysis and statistical plots will be conducted in all cases. Understanding the characteristics and structure of the data for each chemical in each data set is an important facet of exploratory data analysis. Statistical plots show how the site and background data sets compare with one another, and statistical plots such as normal probability and box-and-whisker plots are complementary illustrations of the data set that readily convey a large amount of information.

Guidance documents related to project planning and data collection as well as statistical evaluation and testing are available from the EPA and will be used in future studies.

6.0 REFERENCES

- Basic Remediation, Inc. (BRC). 2006. "Site-Related Chemicals." Basic Remediation, Inc. (BMI) Common Areas Project. February 9.
- Birkeland, P. 1984. *Soils and Geomorphology*. Second Edition. Oxford University Press.
- Environ International Corporation (Environ). 2003. "Risk Assessment for the Water Reclamation Facility Expansion Site, Henderson, Nevada." Volume II, Appendices D and E. October 15.
- Environmental Resources Management (ERM) and Tetra Tech EM Inc. (Tetra Tech). 2005. "Background Soil Sampling Workplan for BMI Common Areas and Complex Vicinity." April.
- Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. Van Nostrand Reinhold Company. New York, New York.
- Hassig, N.L., and others. 2005. "Visual Sampling Plan Version 4.0 User's Guide." PNNL-15247. Pacific Northwest National Laboratory, Richland, WA. July.
- Helsel, D.R. 1990. "Less than Obvious, Statistical Treatment of Data Below the Detection Limit." *Environmental Science and Technology*. 24(12): 1767-1774.
- Helsel, D.R. 2005a. "Nondetects and Data Analysis." *Statistics for Censored Environmental Data*. John Wiley and Sons, Inc. Hoboken, NJ.
- Helsel, D.R. 2005b. "More than Obvious: Better Methods for Interpreting Nondetect Data." *Environmental Science and Technology*. 39(20): 419A-423A.
- Helsel, D. R., and R. M. Hirsch. 2002. "Statistical Methods in Water Resources." U.S. Geological Survey Techniques of Water Resources Investigations, Book 4, Chapter A3. On-Line Address: <http://water.usgs.gov/pubs/twri/twri4a3/>
- MWH Americas, Inc.. 2003. "Final Hydrogeologic Characterization Workplan." BMI Site. Clark County, Nevada. December.
- National Academy of Sciences (NAS). 1971. "Radioactivity in the Marine Environment." Report of the Panel on Radioactivity in the Marine Environment of the Committee on Oceanography. Washington, DC.
- Neptune and Company, Inc. (Neptune). 2006. "Guided Interactive Statistical Decision Tool" (GISdT) Website for Statistical Calculations." On-line Address: <http://www.neptuneandco.com/main/html>

- Nevada Bureau of Mines and Geology (NBMG). "Geology and Mineral Deposits of Clark County, Nevada." Bulletin 62. MacKay School of Mines. University of Nevada-Reno.
- Nevada Division of Environmental Protection (NDEP). 2006. "Settlement Agreement and Administrative Order on Consent: BMI Common Areas." Phase 3. February 15.
- Salomons, W., and U. Forstner. 1984. *Metals in the Hydrocycle*. Springer-Verlag, Berlin. Page 349.
- Sheppard, C. R. C. 1999. "How Large Should My Sample Be? Some Quick Guides to Sample Size and the Power Of Tests." *Marine Pollution Bulletin*. 38: 439-447.
- Tetra Tech. 2004. "Site-related Chemicals Technical Memorandum, Titanium Metals Corporation, Henderson, Nevada." Revision 3. October 13.
- U.S. Department of Agriculture (USDA). 1985. *Soil Survey of Las Vegas Valley Area Nevada-Part of Clark County*. Soil Conservation Service. July.
- U.S. Department of Energy (DOE). 1990. "General Environmental Protection Program." DOE Order 5400.1. Revision 1. Assistant Secretary for Environment, Safety, and Health. Washington, DC. On-line Address: <http://www.eh.doe.gov/orders/o54001c1.pdf>
- DOE. 1997. "Evaluation of Radiochemical Data Usability." Office of Environmental Management. Oak Ridge, Tennessee. April.
- U.S. Department of Navy (Navy). 1999. "Handbook for Statistical Analysis of Environmental Background Data."
- Navy. 2002. "Guidance for Environmental Background Analysis. Volume I: Soil, NFESC User's Guide." UG-2049-ENV, NAVFAC. Washington, DC. April.
- U.S. Environmental Protection Agency (EPA). 1989. "Methods for Evaluating the Attainment of Cleanup Standards. Volume 1: Soils and Solid Media." EPA 230/02-89-042. Office of Policy, Planning and Evaluation. Washington, DC. February.
- U.S. Environmental Protection Agency (EPA). 2000a. "Guidance for Data Quality Assessment: Practical Methods for Data Analysis." EPA QA/G-9. July. EPA/600/R-96/084.
- EPA. 2000b. "Guidance for the Data Quality Objectives Process." EPA QA/G-4. EPA/600/R-96/055. August.
- EPA. 2001a. "Data Quality Objectives, Decision Error Feasibility Trials Software (DEFT) – Users Guide." EPA QA/G-4D. EPA/240/B-01/007. September.
- EPA. 2001b. "Region 9 Superfund Data Evaluation/Validation Guidance." Draft. R9QA/006.1. Quality Assurance Office. San Francisco, CA. December.

- EPA. 2002. "Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites." EPA 540-R-01-003. Office of Emergency and Remedial Response. Washington, DC. September.
- EPA. 2004a. "Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)." EPA 402-B-04-001A. Washington, DC. July.
- EPA. 2004b. "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review." EPA 540/R-04/004. OSWER. Washington, DC. October.
- EPA. 2006a. "Data Quality Assessment: Statistical Methods for Practitioners, EPA QA/G-9R." EPA/240/B-06/003. Office of Environmental Information, Washington, DC. February.
- EPA. 2006b. "On the Computation of a 95% Upper Confidence Limit of the Unknown Population Mean Based Upon Data Sets with Below Detection Limit Observations." Prepared by A. Singh, R. Maichle, and S.E. Lee. EPA/600/R-06/022. March.

FIGURES

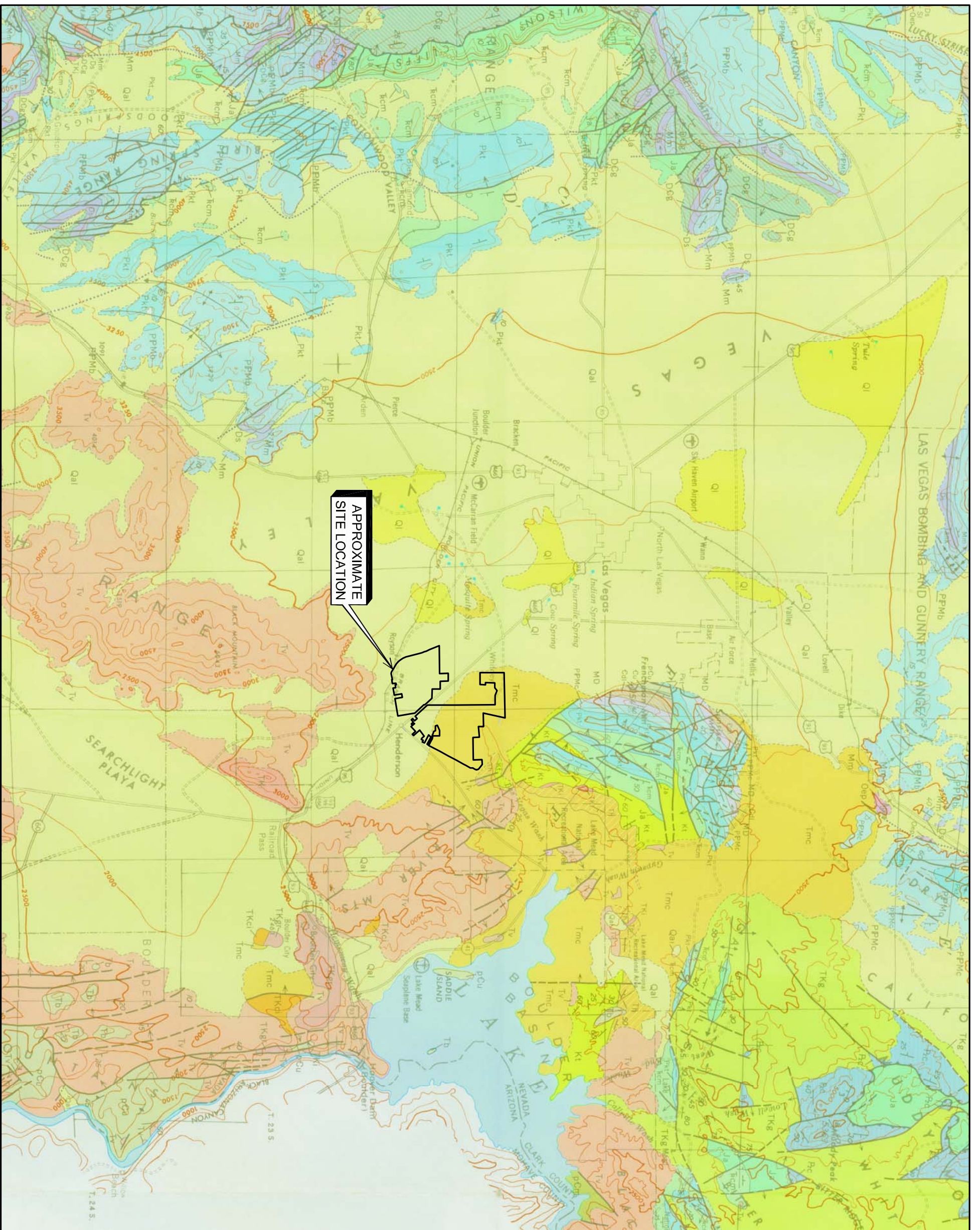
Includes:

Regional Geologic Map Legend (Figure 1A)

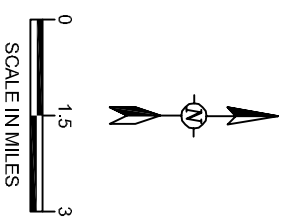
Uranium-238 Decay Chain (Figure 2)

Uranium-235 Decay Chain (Figure 3)

Thorium-232 Decay Chain (Figure 4)



APPROXIMATE
SITE LOCATION

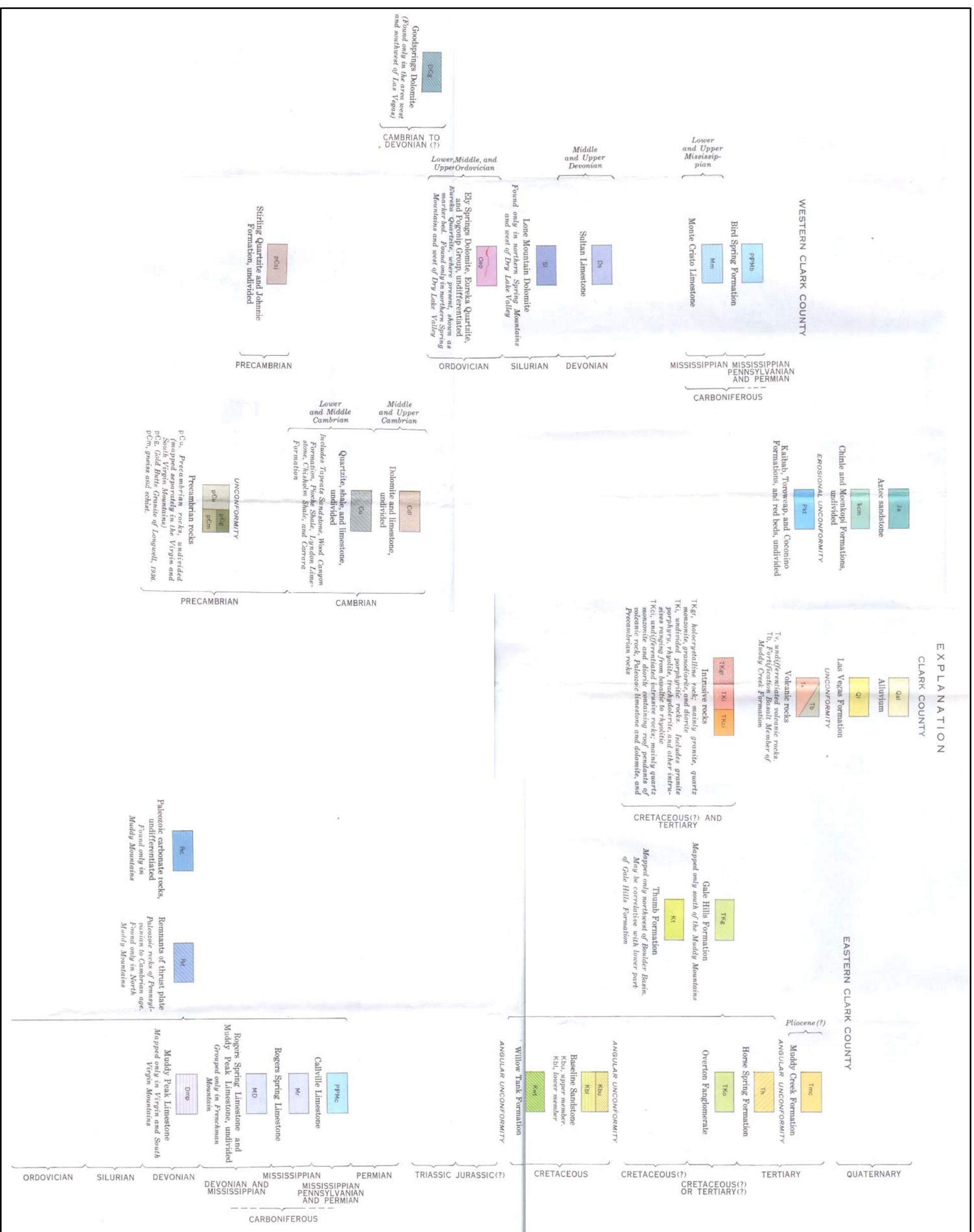


NOTE: FOR REGIONAL GEOLOGIC MAP LEGEND, REFER TO FIGURE 1A.

SOURCE: GEOLOGIC MAP OF CLARK COUNTY, NEVEADA - C.R. LONGWELL, E.H. PAMPEYAN, AND BEN BOWWER.

Background Soil Summary Report
BMI Complex and Common Areas
Basic Remediation Company
Titanium Metals Corporation
Henderson, Nevada

FIGURE 1
REGIONAL GEOLOGIC MAP



SOURCE: GEOLOGIC MAP OF CLARK COUNTY, NEVADA - C.R. LONGWELL, E.H. PAMPEYAN, AND BEN BOWYER.

Background Soil Summary Report
 BMI Complex and Common Areas
 Basic Remediation Company
 Titanium Metals Corporation
 Henderson, Nevada

FIGURE 1A
 REGIONAL GEOLOGIC MAP LEGEND



FIGURE 2
URANIUM-238 DECAY CHAIN

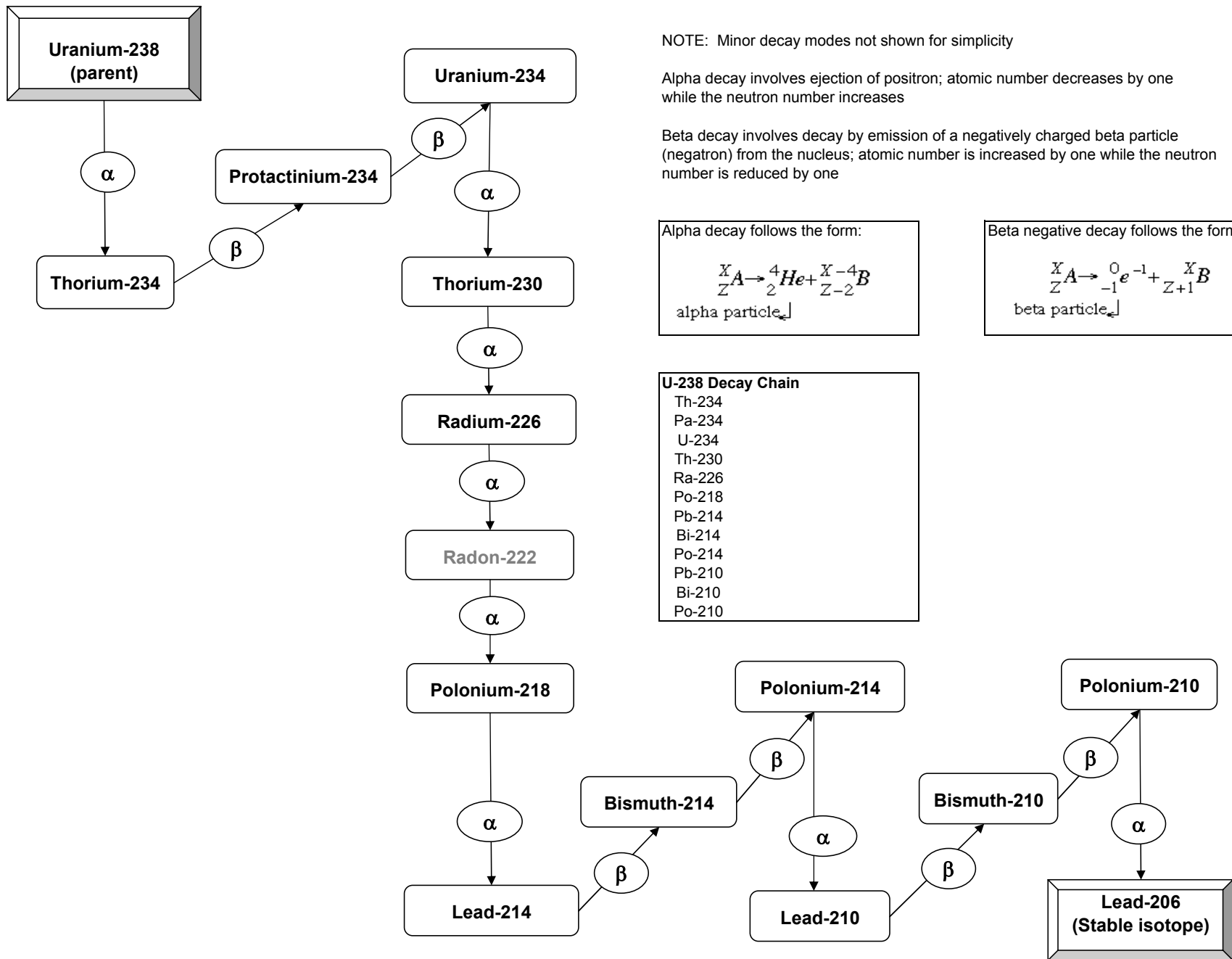
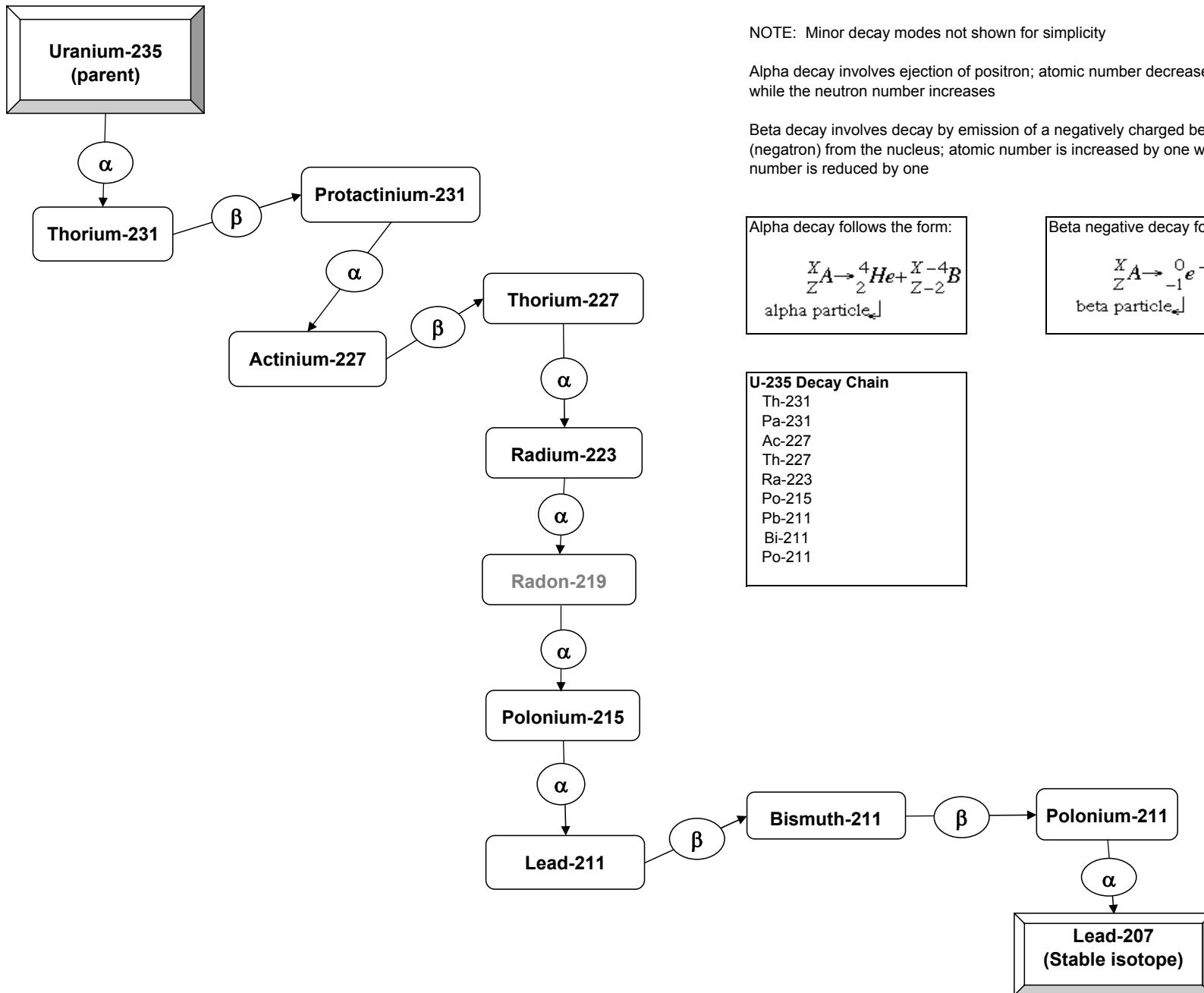


FIGURE 3
URANIUM-235 DECAY CHAIN

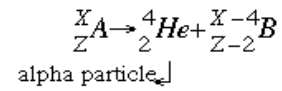


NOTE: Minor decay modes not shown for simplicity

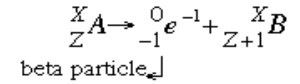
Alpha decay involves ejection of positron; atomic number decreases by one while the neutron number increases

Beta decay involves decay by emission of a negatively charged beta particle (negatron) from the nucleus; atomic number is increased by one while the neutron number is reduced by one

Alpha decay follows the form:



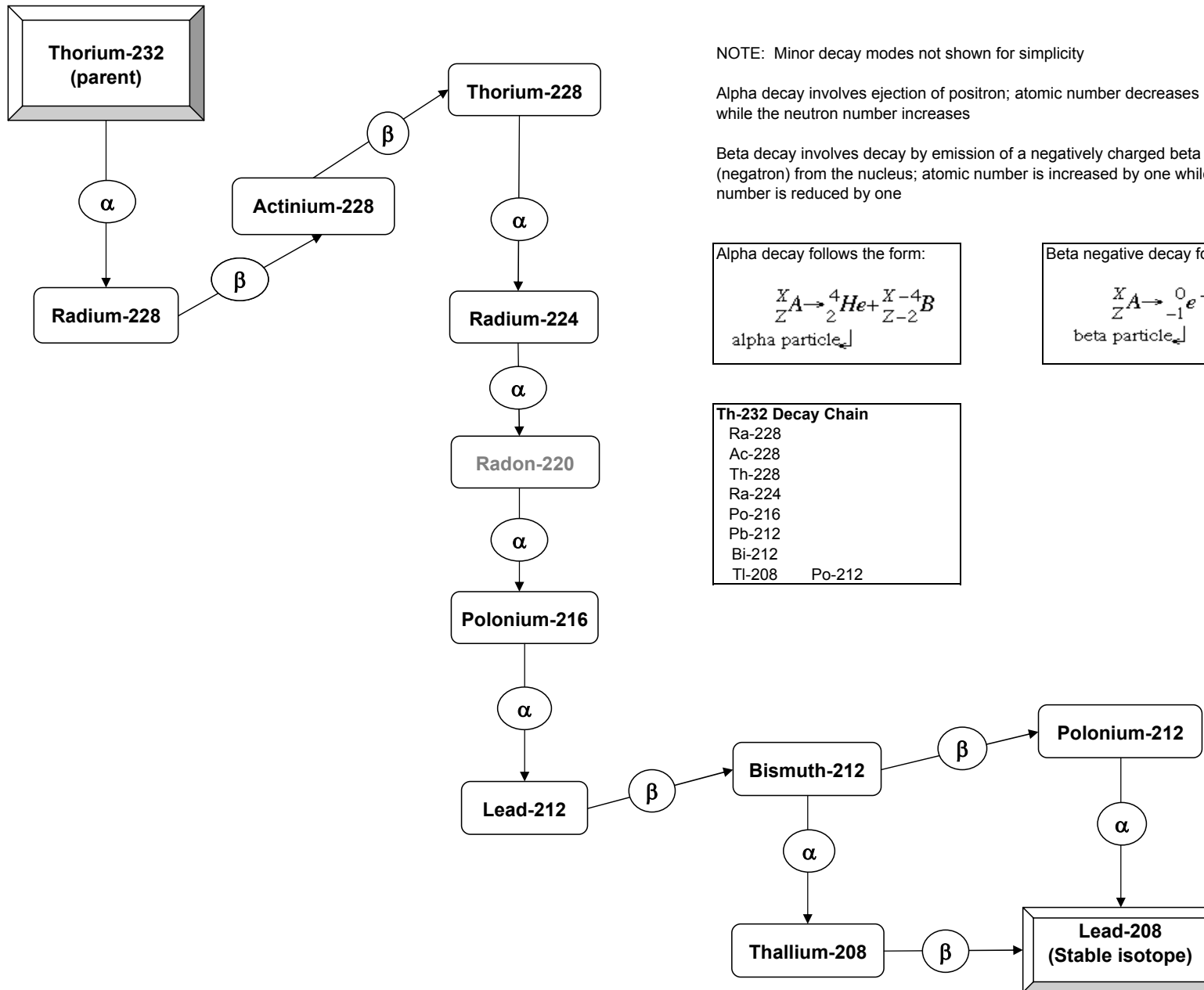
Beta negative decay follows the form:



U-235 Decay Chain

- Th-231
- Pa-231
- Ac-227
- Th-227
- Ra-223
- Po-215
- Pb-211
- Bi-211
- Po-211

FIGURE 4
THORIUM-232 DECAY CHAIN



APPENDIX A

Includes:

Meeting Minutes between NDEP, TIMET, and BRC, dated June 8, 2005
Comment Letter from NDEP to BRC and TIMET, dated May 27, 2005
Background Soil Sampling Workplan, dated April 2005

Meeting Minutes

Project: TIMET and BMI Common Areas
Location: telephone
Time and Date: 2:00 PM, Wednesday, June 8, 2005
Meeting Number: ---
In Attendance: NDEP-BCA – Brian Rakvica, Jennifer Carr, Jeff Johnson
Broadbent & Associates – Kirk Stowers
TetraTech/T2 – Victoria Coker, Kathy Allford, Candy Friday,
Mary Siders
BRC – Ranajit Sahu
TIMET – Craig Wilkinson
Neptune and Company – Paul Black

CC: Jeff Johnson

1. Meeting was held to discuss remaining comments on background soil sampling plan.
2. General discussion, it was noted that the NDEP “comfort letter” has helped. BRC/TIMET has completed a drive-by re-survey of the locations. BRC/TIMET hopes to begin sampling next week.
3. Reviewed the NDEP 5/27/05 letter on a comment by comment basis. It should be noted that comments were agreed with or concurred with except as noted below.
4. NDEP comment #1 – BRC/TIMET noted that it is not planned to add dioxins/furans to the analyses at this time. BRC is reviewing the national urban dioxin background data and noted that analysis for dioxins/furans may be considered in the future.
5. NDEP comment #2 – BRC/TIMET noted that this would be evaluated after the data is collected.
6. NDEP comment #3a – BRC/TIMET confirmed that hollow stem auger would be used.
7. NDEP comment #3b - BRC/TIMET clarified that an equal volume will be collected in each interval and will be homogenized.
8. NDEP comment #4a - BRC/TIMET will summarize in the report following data collection.
9. NDEP comment #4b – discussed the fact that it is necessary to form converging lines of evidence with the statistical tests (conduct multiple tests). TIMET noted that the sample size calculation should be included as part of Step 6. Paul Black to re-review.
10. NDEP comment #5 – NDEP noted that the purpose of the call was to resolve the issues outlined in the letter. It is not necessary to re-issue the DQOs because of practical constraints associated with the collection of the background samples. At this point in time, the important thing is to collect the samples.
11. NDEP comment #5c – NDEP clarified that it is the expectation of the NDEP that DQOs will be completed in accordance with the USEPA guidance and that the

details of the DQO process should be outlined in the table or the text. In the future, the text will include the information in the EPA format for DQOs; specifically, the alternative actions will be provided under Step 2 instead of in Step 5, and the significance level for statistical tests will be listed in the DQO table instead of just in the text (Comment 12). A list of possible statistical tests will also be presented, while still acknowledging that the characteristics of the data must be assessed before selecting the most appropriate statistical test(s).

12. NDEP comment #5e – confidence will be added to the tables.
13. NDEP comment #5g - BRC/TIMET confirmed that all depths would be compared.
14. NDEP comment #6a - BRC/TIMET noted that radium-224 would be back-quantitated. TIMET also noted that radionuclides with short half-lives do not have hold time issues because in secular equilibrium, the radionuclide is also being replenished while it is decaying. The matter is just an analysis issue. Post-meeting note: after further discussion, TIMET noted that radium-224 would be analyzed.
15. NDEP comment #6b, extensive discussion regarding uranium-235 and its daughter products.
 - a. TIMET noted that U-235 is typically present in the natural environment in much less abundant quantities than U-234/U-238. It was also discussed that U-235 typically represent $\sim 1/20$ of the risk of U-234 and U-238, because the contribution of radioactivity from U-235 in naturally occurring uranium is much less than the radioactivity contribution from U-234 and U-238. In addition, it was noted that the TIMET process is not expected to concentrate U-235 or its daughter products in a fashion that is different than the natural environment.
 - b. BRC/TIMET to evaluate and may add the analysis of U-235 daughter products for completeness.
16. NDEP comment #6c – agreed that gross alpha and gross beta would be eliminated.
17. BRC/TIMET noted that a revised/corrected Table 3 would be distributed.
18. Discussion of statistical issues: Paul discussed the software that is available from Neptune and Company. BRC/TIMET are interested in using this software. Paul and BRC/TIMET to work out the details of this at a later date. Using the Neptune software would allow easier “checks” of the calculations. The Gehan test is available in commercial software, but only for right-censored data (survival analysis). We deal with left-censored data in our environmental data sets.
19. BRC/TIMET noted that they would provide notice to NDEP when sampling will be conducted.

LEO M. THORNDORF, Administrator

STATE OF NEVADA
KENNY C. GUINN
Governor

ALAN BIAGGI, Director

(775) 687-4670

Administration
Facsimile 687-5856

Water Quality Planning
Water Pollution Control
Facsimile 687-4664

Mining Regulation and
Reclamation
Facsimile 684-5284



Air Pollution Control
Air Quality Management
Facsimile 687-6396

Waste Management
Federal Facilities

Corrective Actions
Facsimile 687-6386

NDEP.gov

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION

333 W. Nye Lane, Room 138
Carson City, Nevada 89706

May 27, 2005

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

TO: RAN SAHU
VIA FAX W/
HARD COPY TO
FOLLOW
626 308 0421
567 0473

Re.: Nevada Division of Environmental Protection Response to:
Background Soil Sampling Workplan - BMI Common Areas and Complex Vicinity
dated April 2005
NDEP Facility ID# H-000688 and H-000537

Dear Messrs Paris and Wilkinson:

The NDEP has received and reviewed BRC's and TIMET's correspondence identified above and provides comments in Attachment A. The NDEP requests that BRC/TIMET proceed with the collection and analysis of the samples as identified in the plan. The NDEP would like to discuss the issues outlined below with BRC/TIMET in the form of a conference call. The conference call shall be conducted prior to completion of field work to ensure that these issues are resolved before data interpretation by the companies begins. Please contact Brian Rakvica at (702) 486-2870 or brakvica@ndep.nv.gov by June 10, 2005 to set up this call.

Should you have any questions or concerns, please do not hesitate to contact me at (775) 687-9373.

Sincerely,

Jennifer L. Carr, P.R., C.E.M.
Remediation Branch Supervisor
Bureau of Corrective Actions

BAR:JLC
Co's Page 2.

CRAIG WILKINSON
5652689
KIM SHERN
5630610
VICTORIA COREN
8322515170

VIA FAX
WITH
HARD
COPY
TO
FOLLOW

Mr. Mark Paris and Mr. Craig Wilkinon
May 27, 2005
Page 2

cc: Jim Najima, NDLP, BCA, Carson City
Brian Rakvica, NDEP, BCA, Las Vegas
Jeff Johnson, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Struss, Hauer & Fold, L.L.P., 1333 New Hampshire Avenue, N.W.,
Washington, D.C. 20036
Irenda Pohlmann, City of Henderson, 240 Water Street, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5,
75 Hawthorne Street, San Francisco, CA 94105-3901
Carrie Stowers, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-
1741
Ranjit Sahu, BEC, 875 West Warm Springs Road, Henderson, Nevada 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Kerr-McGee Chemical-LLC, PO Box 55, Henderson, Nevada 89009
Lee Erickson, Stauffer Management Company, 1800 Concord Pike, Hanby 1, Wilmington,
DE 19850-5437
Chris Sylvia, Pioneer Americas LLC, 8000 Lake Mead Parkway, Henderson, Nevada 89015
Paul Sundberg, Montrose Chemical Corporation, 3846 Batiste Drive, Stockton, California
95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Brickson Avenue NE, Suite 380,
Bainbridge Island, WA 98110

ATTACHMENT A**NDEP Comments to the April 2005 Background Soil Sampling Workplan**

1. Section 1.1, page 1, this sampling plan does not address background concentration of dioxins/furans. Please explain if BRC/TIMET plan to collect background samples for these compounds in the future.
2. Section 2.1, page 8, table, it should be noted that 10 of the 11 sample locations are derived from the McCullough mountain range. 1 sample is derived from a mixture of the McCullough and River mountain ranges. More than half of the samples collected by Environ are derived from the River mountain range. Portions of the BMI Common Areas are derived from the River mountain range exclusively. If it is found that the data from the McCullough and River mountain ranges are statistically different BMI may not have sufficient new data to supplement the Environ data set. Section 1.1 of this report identifies that part of the purpose of this workplan is to provide data for analytes not included in the existing background data set collected by Environ; and to provide data for several depth intervals, in addition to the depth intervals collected by Environ. The sampling plan (as proposed) may not satisfy these goals if it is found that the data from the McCullough and River mountain ranges are statistically different. This comment does not require a response, however, it is suggested that BRC/TIMET attempt to identify additional background sampling locations that can be tied to the River mountain range if additional sampling is needed.
3. Section 2.2, page 9, the NDEP has the following comments:
 - a. BRC/TIMET indicates that a direct push or hollow stem auger will be used to collect the samples. Based on the NDEP's discussion with BRC/TIMET it was understood that a hollow stem auger would be used exclusively. Please clarify.
 - b. BRC/TIMET does not discuss the volume of soil sample to be collected. It was the understanding of the NDEP that the volume of soil sample would be identical in each depth interval. This is a comparability issue that should be discussed.
4. Section 3.2, pages 18 through 20, the NDEP has the following comments:
 - a. Please summarize the existing data set (the Environ data set) that is proposed to be compared to the new data set. This summary should include: location identifier, depth interval, and soil type.
 - b. BRC/TIMET do not describe how the comparisons between the data sets will be made. The only statement is that "Statistical tests for comparing data sets will be selected based on the characteristics of the data sets." Please be advised that the methods used to evaluate this data will be evaluated once submitted.
 - c. On page 19, four comparisons are listed. It is the belief of the NDEP that the sample size was selected to satisfy the 2nd comparison (McCullough versus River) and would like to note that the data set may not be sufficient to satisfy the 4th comparison (site soils versus background soils). This issue should be discussed further. In addition, it is recommended that the calculations for sample size for the 3rd and 4th comparisons be presented.
5. Table 1, the NDEP has the following comments:
 - a. General, the NDEP has significant comments on these tables and believes that these issues can be best addressed in the conference call. Some select examples are provided below.

Mr. Mark Park and Mr. Craig Wilkinson
Attachment A
May 27, 2005
Page 2

- b. Step 1, the first problem statement is extraneous and should be removed as it is duplicated in the 2nd and 3rd problem statements.
 - c. Step 2, BRC/TIMET has identified the principal study questions, however, BRC/TIMET still has not identified alternative actions or decision statements.
 - d. Step 4, all practical constraints have still not been identified. For example, the ability to obtain access agreements to all of the background sample locations is a constraint. Another practical constraint is the encroachment of development on the background sample locations. This encroachment may result in a background sample location being chemically compromised or lost to development. This discussion is important for justifying the number of soil samples that are taken.
 - e. Step 5, BRC/TIMET uses the phrase "statistically indistinguishable", however, the statistical parameters are not described. For example, $p < 0.05$ or $p > 0.05$. A reference to the appropriate text section and a brief description should be provided.
 - f. Step 5, decision rule 5a, BRC/TIMET states "If concentrations of site-related chemicals in site soils are statistically indistinguishable from concentrations in these background soils, then eliminate these chemicals as COPCs." It should be noted that this activity might occur in the future, once site soils are sufficiently characterized. Site soils may not be sufficiently characterized to complete this activity at this time.
 - g. Step 6, the NDEP has the following comments:
 - i. The meaning and purpose of the first null hypothesis are not evident. It appears that this hypothesis may be referring to the physical soil characteristics. Please clarify or delete this null hypothesis.
 - ii. This step does not discuss the comparison of concentrations in the 4-6' depth interval with the 9-11' depth interval (see Step 2 item 2). Please clarify.
6. Table 3, the NDEP has the following comments:
- a. Please discuss the half-life of radium-224 and how this relates to the proposed analytical method and holding time for this sample. BRC/TIMET should also verify the practicality of sampling other radionuclides with short half-lives. If necessary, please revise and resubmit this table.
 - b. A majority of the uranium-235 decay series is omitted and is a site-related chemical for the TIMET site. Please modify the table as needed.
 - c. It is the belief of the NDEP that it is not necessary to include gross alpha and gross beta in this background study since BRC/TIMET is analyzing for the individual radionuclides. If BRC/TIMET disagrees, please provide justification for the inclusion of gross alpha and gross beta.

TABLE 3
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

| Parameter of Interest | Analytical Method | Compound List | CAS Number | Practical Quantitation Limit | | |
|-----------------------|------------------------|----------------------|------------------------|------------------------------|-------|-------|
| | | | | | | |
| Metals | EPA 6020/6010B | <i>Aluminum</i> | 7429-90-5 | 3 | mg/kg | |
| | | <i>Antimony</i> | 7440-36-0 | 1 | mg/kg | |
| | | <i>Arsenic</i> | 7440-38-2 | 1 | mg/kg | |
| | | <i>Barium</i> | 7440-39-3 | 2 | mg/kg | |
| | | <i>Beryllium</i> | 7440-41-7 | 0.5 | mg/kg | |
| | | <i>Boron</i> | 7440-42-8 | 5 | mg/kg | |
| | | <i>Cadmium</i> | 7440-43-9 | 0.5 | mg/kg | |
| | | <i>Calcium</i> | 7440-70-2 | 50 | mg/kg | |
| | | <i>Chromium</i> | 7440-47-3 | 1 | mg/kg | |
| | | <i>Cobalt</i> | 7440-48-4 | 0.5 | mg/kg | |
| | | <i>Copper</i> | 7440-50-8 | 1 | mg/kg | |
| | | <i>Iron</i> | 7439-89-6 | 10 | mg/kg | |
| | | <i>Lead</i> | 7439-92-1 | 0.3 | mg/kg | |
| | | <i>Lithium</i> | 1313-13-9 | 5 | mg/kg | |
| | | <i>Magnesium</i> | 7439-95-4 | 50 | mg/kg | |
| | | <i>Manganese</i> | 7439-96-5 | 1 | mg/kg | |
| | | <i>Molybdenum</i> | 7439-98-7 | 1 | mg/kg | |
| | | <i>Nickel</i> | 7440-02-0 | 1 | mg/kg | |
| | | <i>Niobium</i> | 7440-03-1 | 12.5 | mg/kg | |
| | | <i>Palladium</i> | 7440-05-3 | 0.5 | mg/kg | |
| | | <i>Phosphorus</i> | 7723-14-0 | 50 | mg/kg | |
| | | <i>Platinum</i> | 7440-06-4 | 0.5 | mg/kg | |
| | | <i>Potassium</i> | 7440-09-7 | 50 | mg/kg | |
| | | <i>Selenium</i> | 7782-49-2 | 0.5 | mg/kg | |
| | | <i>Silicon</i> | 7440-21-3 | 50 | mg/kg | |
| | | <i>Silver</i> | 7440-22-4 | 1 | mg/kg | |
| | | <i>Sodium</i> | 7440-23-5 | 50 | mg/kg | |
| | | <i>Strontium</i> | 7440-24-6 | 1 | mg/kg | |
| | | <i>Thallium</i> | 7440-28-0 | 1 | mg/kg | |
| | | <i>Tin</i> | 7440-31-5 | 1 | mg/kg | |
| | | <i>Titanium</i> | 7440-32-6 | 1 | mg/kg | |
| | | <i>Tungsten</i> | 7440-33-7 | 2.5 | mg/kg | |
| | | <i>Uranium</i> | 7440-61-1 | 1 | mg/kg | |
| <i>Vanadium</i> | 7440-62-2 | 1 | mg/kg | | | |
| <i>Zinc</i> | 7440-66-6 | 2 | mg/kg | | | |
| <i>Zirconium</i> | 14940-68-2 | 10 | mg/kg | | | |
| | EPA 7196A | <i>Chromium (VI)</i> | 18540-29-9 | 10 | mg/kg | |
| | EPA 7470/7471A | <i>Mercury</i> | 7439-97-6 | 0.03 | mg/kg | |
| Radiochemicals | EPA 901.1 or HASL AM02 | <i>Actinium-228</i> | 14331-83-0 | 0.8 | pCi/g | |
| | | <i>Bismuth-212</i> | 14913-49-6 | 1.2 | pCi/g | |
| | | <i>Bismuth-214</i> | 14733-03-0 | 0.4 | pCi/g | |
| | | <i>Cobalt-57</i> | 13981-50-5 | 0.1 | pCi/g | |
| | | <i>Cobalt-60</i> | 10198-40-0 | 0.1 | pCi/g | |
| | | <i>Lead-210</i> | 14255-04-0 | 1.5 | pCi/g | |
| | | <i>Lead-212</i> | 15092-94-1 | 0.2 | pCi/g | |
| | | <i>Lead-214</i> | 15067-28-4 | 0.3 | pCi/g | |
| | | <i>Potassium-40</i> | 13966-00-2 | 1.5 | pCi/g | |
| | | <i>Radium-223</i> | 15623-45-7 | 1.0 | pCi/g | |
| | | <i>Radium-224</i> | 13233-32-4 | 1.5 | pCi/g | |
| | | <i>Thallium-208</i> | 14913-50-9 | 0.2 | pCi/g | |
| | | <i>Thorium-227</i> | 1563-47-9 | 0.5 | pCi/g | |
| | | <i>Thorium-234</i> | 15065-10-8 | 0.2 | pCi/g | |
| | | EPA 9315 | <i>Radium-226</i> | 13982-63-3 | 1.0 | pCi/g |
| | | EPA 9320 | <i>Radium-228</i> | 15262-20-1 | 1.0 | pCi/g |
| | | HASL 300 A-01R | <i>Thorium-228</i> | 14274-82-9 | 1.0 | pCi/g |
| | | | <i>Thorium-230</i> | 14269-63-7 | 1.0 | pCi/g |
| | | | <i>Thorium-232</i> | 7440-29-1 | 1.0 | pCi/g |
| | | | <i>Uranium-233/234</i> | 13966-29-5 | 1.0 | pCi/g |
| <i>Uranium-235</i> | 15117-96-1 | | 1.0 | pCi/g | | |
| | | <i>Uranium-238</i> | 7440-61-1 | 1.0 | pCi/g | |

TABLE 3 (Continued)
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

| Parameter of Interest | Analytical Method | Compound List | CAS Number | Practical Quantitation Limit | |
|---|--|---|------------|------------------------------|----------------|
| Radiochemicals (continued) | Quantitate from Parent Radionuclide | <i>Actinium-227 (from Th-227)</i> | 14952-40-0 | * | pCi/g |
| | | <i>Bismuth-210 (from Pb-210)</i> | 14331-79-4 | * | pCi/g |
| | | <i>Bismuth-211 (from Th-227)</i> | 7440-69-9 | * | pCi/g |
| | | <i>Lead-211 (from Th-227)</i> | 7439-92-1 | * | pCi/g |
| | | <i>Polonium-210 (from Bi-210)</i> | 13981-52-7 | * | pCi/g |
| | | <i>Polonium-212 (from Bi-212, adjusted for branching ratio)</i> | 13981-52-7 | * | pCi/g |
| | | <i>Polonium-214 (from Bi-214)</i> | 15735-67-8 | * | pCi/g |
| | | <i>Polonium-215 (from Th-227)</i> | 7440-08-6 | * | pCi/g |
| | | <i>Polonium-216 (from Ra-224)</i> | 15756-58-8 | * | pCi/g |
| | | <i>Polonium-218 (from Ra-226)</i> | 15422-74-9 | * | pCi/g |
| | | <i>Protactinium-231 (from Th-227)</i> | 14331-85-2 | * | pCi/g |
| | | <i>Protactinium-234 (metastable isotope; from U-238)</i> | 15100-28-4 | * | pCi/g |
| | | <i>Radium-223 (from Th-227)</i> | 15623-45-7 | * | pCi/g |
| | | <i>Thallium-207 (from Th-227)</i> | 14133-67-6 | * | pCi/g |
| <i>Thorium-231 (from U-235)</i> | 14932-40-2 | * | pCi/g | | |
| Ions | EPA 300.0 | <i>Chloride</i> | 16887-00-6 | 5 | mg/kg |
| | | <i>Fluoride</i> | 16984-48-8 | 1 | mg/kg |
| | | <i>Nitrate (as N)</i> | 14797-55-8 | 0.25 | mg/kg |
| | | <i>Nitrite (as N)</i> | 14797-65-0 | 0.25 | mg/kg |
| | | <i>Sulfate</i> | 14808-79-8 | 5 | mg/kg |
| Miscellaneous Soil Characteristics | Lloyd Kahn Method | <i>Total organic carbon (TOC)</i> | 7440-44-0 | 10 | mg/kg |
| | EPA 9045C | <i>pH</i> | NA | NA | pH units |
| | SM 2520B Modified | <i>Salinity</i> | NA | NA | salinity units |
| | EPA 9080 or 9081 | <i>Cation Exchange Capacity</i> | NA | NA | meq/100g |
| | ASTM D422 | <i>Soil Texture Class</i> | NA | NA | % of total |
| | ASTM D2216 | <i>Percent Moisture</i> | NA | NA | % |

Reporting Limits - Based on laboratory limits for primary laboratory (STL).

Laboratory limits are subject to matrix interferences and may not always be achieved in all samples.

* = Reporting limit for specific radionuclide to be set based on the performance of Cs-137 in the specific sample matrix

Basic Remediation Company
Titanium Metals Corporation

Background Soil Sampling
Workplan
*BMI Common Areas and Complex
Vicinity*

April 2005

0020638.50

Environmental Resources Management
1777 Botelho Drive, Suite 260
Walnut Creek, California 94596

TETRA TECH EM INC.
2901 Wilcrest, Suite 400
Houston, Texas 77042

Basic Remediation Company
Titanium Metals Corporation

Background Soil Sampling
Workplan
*BMI Common Areas and Complex
Vicinity*

April 2005

0020638.50

Dr. Ranajit Sahu, C.E.M. (No. EM-1699, Exp. 10/2/2005)
BRC Project Manager

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances

Jill A. Quillin R.G., C.E.M. (No. EM-1707, Exp. 6/21/2006)
ERM Project Manager

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances

Kirk J. Stowers C.E.M. (No. EM-1549, Exp. 10/11/2006)
TIMET Program Manager

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances

Kathryn T. Allford
Tetra Tech Technical Manager

TABLE OF CONTENTS

| | |
|---|------------------|
| LIST OF FIGURES | <i>ii</i> |
| LIST OF TABLES | <i>ii</i> |
| 1.0 INTRODUCTION | 1 |
| 1.1 PURPOSE | 1 |
| 1.2 DATA QUALITY OBJECTIVES | 2 |
| 1.3 LOCATION AND GEOLOGIC SETTING | 3 |
| 2.0 PROPOSED SCOPE OF WORK | 7 |
| 2.1 PROPOSED SAMPLING LOCATIONS | 7 |
| 2.2 SAMPLING PROCEDURE | 9 |
| 2.3 SAMPLE ANALYSIS | 10 |
| 2.4 QA/QC SAMPLES | 10 |
| 2.4.1 <i>Field Quality Control Samples</i> | <i>11</i> |
| 2.4.2 <i>Laboratory Quality Control Samples</i> | <i>12</i> |
| 3.0 DATA EVALUATION AND REPORTING | 16 |
| 3.1 DATA REVIEW | 16 |
| 3.1.1 <i>Data Review, Verification and Validation</i> | <i>16</i> |
| 3.1.2 <i>Reconciliation with User Requirements</i> | <i>18</i> |
| 3.2 STATISTICAL EVALUATION | 18 |
| 3.3 REPORTING AND APPLICABILITY OF RESULTS | 20 |
| 4.0 SCHEDULE | 21 |
| REFERENCES | 22 |

1.0

INTRODUCTION

This workplan presents the proposed scope of work for the collection of background soil data applicable to the BMI Common Areas/Complex in Clark County, Nevada. This general scope of work has previously been addressed in discussions between Basic Remediation Company (BRC) and Nevada Division of Environmental Protection (NDEP) representatives. Subsequent to those discussions, BRC and Titanium Metals Corporation (TIMET) recognized a joint need for determination of background conditions for their respective properties. Given the geographic proximity of their properties and the similar geology, BRC and TIMET are jointly proposing the scope of work presented in this workplan. As previously discussed, the general scope of work includes the collection of off-site soil samples from background areas and analysis of these soil samples for metals and radionuclides. In addition, the scope has been expanded to include collection and analysis of samples for general chemistry anions and soil characteristics.

1.1

PURPOSE

The purpose of this project is to collect data for metals and radionuclides in background soils that are comparable to site soils. These data will be used in future site-to-background statistical comparisons to be conducted during future site investigations. At present, insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed concentrations of these chemicals in background soil. The number of samples needed to achieve confidence and power goals for statistical tests is discussed in Section 1.2 (Data Quality Objectives), and Section 3.2 (Statistical Evaluation) of this work plan.

Background soils data collected during this investigation may also be pooled with background data collected by Environ for the City of Henderson (Environ, 2003). Data from the two studies will be pooled only if statistical comparisons indicate that the data are comparable.

This study will provide the following information needed for future site-to-background comparisons:

- Data for analytes not included in the existing background data set collected by Environ for the City of Henderson;

- Data for several depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs), in addition to the soil depth ranges represented in the Environ 2003 data set (0 to 1 and 4 to 5 feet bgs);
- Data for a broader range of soil units applicable to the site, in addition to the soil units currently represented by the Environ data;
- Data to form a larger sample population to support statistical comparison of on-site (i.e., from BRC or TIMET property) and background sample data sets; and
- Data to form more than one background data set if required based on statistical comparisons of data from different geologic settings.

1.2 DATA QUALITY OBJECTIVES

This section summarizes the development of data quality objectives (DQOs) for the background sampling effort. This planning process was used to define the problem; identify the decisions to be made and the type, quality, and quantity of data needed to support decision-making; and to develop the sampling design for data collection to ensure the adequacy of data collected. The goal of the study is to provide representative data for characterizing the concentrations of metals, radionuclides, and anions (chloride, fluoride, sulfate, nitrate and nitrite) in background soils. These data will be used in future site-to-background comparisons.

US EPA's 7-step framework presented in *Guidance for the Data Quality Objective Process* (US EPA QA/G-4, July 2000, hereinafter "DQO Guidance") was followed in developing the project DQOs. DQOs provide a process for controlling decision errors by considering the purpose of collecting the data, defining the appropriate types of data needed, and specifying tolerable probabilities of making decision errors. The tolerable limits are established by stakeholders and are based on the consequences of making a decision error.

The DQO planning process was used to establish data collection and evaluation requirements. The data must be representative of background conditions and comparable to site data. Data from this study may be pooled with background soils data collected by Environ for the City of Henderson if statistical tests indicate the data sets are comparable. Increasing the size of the background data set will increase the confidence and power of statistical tests to be conducted for site-to-background comparisons, provided the variability of the data set remains the same.

Establishing a representative background data set of adequate size will increase the confidence in the results of statistical comparisons (site-to-background comparisons) conducted as part of BRC's closure process for the Upper and Lower Ponds and Ditches, and TIMET's Phase II investigation and remediation process.

The DQO process for this investigation of background soils is summarized in Table 1. That table provides discussions relevant to each of the following seven steps specified in the DQO guidance:

| | |
|--------|---|
| Step 1 | State the Problem |
| Step 2 | Identify the Decision |
| Step 3 | Identify the Inputs to the Decision |
| Step 4 | Define the Boundaries of the Study |
| Step 5 | Develop a Decision Rule |
| Step 6 | Specify Tolerable Limits on Decision Errors |
| Step 7 | Optimize the Design for Obtaining Data |

1.3 LOCATION AND GEOLOGIC SETTING

The BMI Common Areas and Complex are located in Clark County, Nevada, and are situated approximately 2 miles west of the River Mountains and 1 mile north of the McCullough Range (Figure 1). As seen in Figure 1, the local surface topography slopes in a westerly to northwesterly direction from the River Mountains and in a northerly to northeasterly direction from the McCullough Range. Near the BMI Common Areas and Complex, the surface topography slopes in a northerly direction towards the Las Vegas Wash. According to the Nevada Bureau of Mines and Geology (NBMG) *Las Vegas SE Folio Geologic Map* (1977) and the *Geologic Map of the Henderson Quadrangle, Nevada* (Bell and Smith, 1980), the River Mountains and McCullough Range consist of volcanic rocks: dacite in the River Mountains and andesite in the McCullough Range.

Based on the *Soils Survey of Las Vegas Valley Area, Nevada* (USDA SCS publication, 1985; hereinafter, "USDA Soils Survey") the following naturally occurring soils are present in the vicinity of the BMI Common Areas and Complex:

- Caliza (map units 184 and 187): This soil type represents the dominant soil type in the immediate vicinity of the BMI Common Areas and Complex. Unit 184 description: very gravelly sandy loam; a very deep

soil formed from different types of rock; forms in alluvium; generally forms on slopes of 2 to 8 percent. Unit 187 is found in two main areas: 1) west of the unit 184 occurrences to the west of BMI Complex and Common Areas, along the western boundary of the BMI Complex and transecting the northwestern Lower Ponds; and 2) south of the BMI Common Areas and southeast of the BMI Complex. It is similar to the description above, except it is “extremely cobbly” sandy loam. Unit 184 is primarily located in the area downgradient of both the River Mountains and the McCullough Range while unit 187 is located north of the McCullough Range and also in the areas east/northeast of the McCullough Range and west of the River Mountains.

- Caliza-Pittman-Arizo (map unit 182): This soil type is located in a thick band east of the BMI Common Areas and Complex and transects the southeastern most corner of the Upper Ponds. This soil type also occurs south and adjacent to an area of unit 184 found along the southern boundary of the BMI Complex. This soil consists of approximately 60 percent Caliza, 20 percent Pittman, and 15 percent Arizo. Caliza description: a very deep soil formed from different types of rocks; formed on erosional fan remnants. Pittman description: a moderately deep soil formed from different types of rock; forms on exposed remnants of alluvial fan deposits. Arizo description: a very deep soil formed from different types of rock; forms in channels; this complex forms on slopes of 0 to 8 percent. Unit 182 is located in areas northeast and east of the McCullough Range as well as areas west of the River Mountains.
- Arizo (map units 112 and 117): These soils are in localized areas south and east of the BMI Common Areas and Complex, and extend east of the Upper Ponds. They transect the Upper Ponds east of the Beta Ditch. Description: very gravelly loamy sand/very gravelly fine sandy loam; very deep soil that formed on recent alluvium and in channels; formed from various types of rock; they generally form on slopes of 0 to 8 percent.
- McCarran (map unit 326): This soil type is located northwest of the Lower Ponds, south of the Wash. Description: fine sandy loam/very cobbly fine sandy loam; a very deep soil formed from limestone and lacustrine sediments (high gypsum content); forms on relict alluvial flats; generally forms on slopes 0 to 8 percent.
- Caliza-Pittman (map unit 181): This soil type is located near the base of the McCullough range, within one quarter mile southwest of the BMI Complex, and approximately 1.5 miles southwest of the Upper Ponds. This unit consists of approximately 50 percent Caliza, 40 percent Pittman, and 10 percent Arizo (see descriptions of these

individual components above with map unit 182). The soil survey describes unit 181 as "extremely stony fine sandy loams" formed on erosional or exposed remnants of alluvial fan deposits derived from various kinds of source rock. This unit is described as deep to moderately deep and well drained.

A soils map reproduced from the 2004 USDA Soil Survey Geographic (SSURGO) database is presented in Figure 2; this map is based on the 1985 USDA Soils Survey. The soil type classification for the Upper and Lower Ponds proper is map unit 600, "slickens", a non-native unit. This term is presumed to reflect the non-native material observed in many of the Ponds. The soil type classification for the BMI Complex is map unit 615, "urban land". Native soils underlying the slickens and urban land are assumed to be consistent with the surrounding map units (i.e., primarily map unit 184, and, to a lesser extent, map units 112, 117, 182, 187, and 326).

Based on the locations of the soil units relative to the McCullough Range and the River Mountains, the topographic slope, and the dendritic geomorphology of the soil units, it is likely that the alluvium in which these soils formed was derived from the weathered volcanic rocks of the McCullough Range and/or the River Mountains. Mineral assemblages in these source rocks would be the primary contributor to concentrations of metals and radionuclides in the native soils. Parent materials for soils formed beneath the BMI Common Areas and Complex and surrounding areas are presumed to be the following:

| Soil Unit | Source Material |
|-----------|---|
| 112 | McCullough Range and/or River Mountains (location specific) |
| 117 | McCullough Range and/or River Mountains (location specific) |
| 181 | McCullough Range |
| 182 | McCullough Range and/or River Mountains (location specific) |
| 184 | Combination of weathered rocks from both the McCullough Range and River Mountains |
| 187 | McCullough Range and/or River Mountains (location specific) |

The McCullough Range is the primary source of materials upslope of the BMI Complex and the western hook of the Lower Ponds. Both the River Mountains and the McCullough Range are primary sources of materials upslope of the Upper Ponds. Based on the similarity in their descriptions

and common parent materials for these soils, units 181, 182, 184, and 187 are expected to exhibit similar ambient chemical concentrations downslope from both mountain ranges.

The similarity of chemical concentrations in background samples collected from soils downslope of the McCullough Range and the River Mountains will be evaluated statistically after collection and validation of analytical data for the background soil samples.

2.0 *PROPOSED SCOPE OF WORK*

This section identifies the proposed sampling locations, and presents the sampling and analysis methods to be employed.

2.1 *PROPOSED SAMPLING LOCATIONS*

The project team has performed a visual inspection of various undeveloped properties close to and upgradient of the Site that could be appropriate for this background soil-sampling program. The inspection identified eleven sampling locations that appear suitable for use in establishing background conditionsⁱ. These eleven locations are depicted in Figures 1 and 2. Figures 1 and 2 also depict the 2003 Environ background sampling locations for reference.

The eleven proposed locations were selected because they exhibit the following characteristics:

- They are off-site locations, in relatively close proximity to the Common Areas and the BMI Complex (Figure 2); however, they are sufficiently distant such that adverse impacts from Site operations are not likely;
- They are upwind of the BMI Common Areas and Complex area (see wind direction plots indicating the predominant wind direction from the south and southwest that are presented in Table 2) and are thus unlikely to have been affected by aerial deposition of wind-borne dusts or vapors from Common Areas or Complex operations; and
- They are upgradient of the Common Areas and BMI Complex and are thus unlikely to have been affected by overland transport of impacted sediments by surface water; the elevations of the proposed sampling locations are approximately 1900 to 2580 ft above msl as compared to the ground surface at the Common Areas (1800 to 1560 ft msl) and Complex (1880 to 1680 ft above msl).

The project team has selected sampling locations that represent a reasonably broad range of soil units consistent with those in the

ⁱ An additional location (ID#10) was originally identified, but was removed based on input from NDEP. The identification numbers for the remaining eleven locations were retained as originally defined.

immediate BMI Common Areas and Complex vicinity. Based on the information provided in the previous section, it is reasonable to assume that native soil samples collected within units 112, 117, 181, 182, 184, 187, and/or 326 reflect background conditions in the Common Areas and BMI Complex. As summarized below, the eleven proposed locations are expected to be representative of all of these units except 326; that unit has limited occurrence in the immediate vicinity of the BMI Common Areas and Complex.

| Proposed Location Area¹ | Associated Mountain Range | Soil Unit per USDA Survey | Rationale for Inclusion in Data Pool |
|---|----------------------------------|----------------------------------|--|
| BRC-BKG-01 (A, B, C) ² | McCullough | 181 | Unit comparable to units 182, 184, and 187 (Caliza-Pittman-Arizo and Caliza) found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-02 (A, B, C) | McCullough | 181 | As above, unit comparable to units 182, 184, and 187 |
| BRC-BKG-03 (A, B, C) | McCullough | 181 | As above, unit comparable to units 182, 184, and 187 |
| BRC-BKG-04 (A, B, C) | McCullough | 117 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-05 (A, B, C) | McCullough | 117 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-06 (A, B, C) | McCullough | 182 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-07 (A, B, C) | McCullough | 182 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-08 (A, B, C) | McCullough | 117 | Unit found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-09 (A, B, C) | McCullough | 117 / 182 / 187 | Units found in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-11 (A, B, C) | McCullough | 184 | Predominant soil unit in the immediate vicinity of the BMI Common Areas and Complex. |
| BRC-BKG-12 (A, B, C) | McCullough /River | 112 / 182 / 117 | Units found in the immediate vicinity of the BMI Common Areas and Complex; location planned to augment Environ sampling in vicinity (downslope of the McCullough Range and River Mountains). |

Notes:

- 1 Sample collection will be from a minimum of eight locations. Diligent efforts will be made to obtain owner authorization to access all eleven proposed locations. In the event that access is not granted for a minimum of eight locations, alternate sampling locations will be identified.
- 2 Represents three independent borings installed at each proposed location (i.e. BRC-BKG-01-A, BRC-BKG-01-B, and BRC-BKG-01-C)

2.2 SAMPLING PROCEDURE

Soil samples will be collected from three borings (A, B, and C) drilled approximately 10 to 15 feet apart at at least eight of the above locations using a direct-push (GeoProbe or equivalent) rig or a hollow-stem auger rig. The three borings at each location are considered to be independent sampling locations. Sampling and sample handling procedures will be consistent with the Standard Operating Procedures (SOPs) developed for the Common Areas for both sampling methods, as provided in Part Three of Appendix D of the *Final Hydrogeologic Characterization Workplan- BMI Site – Clark County, Nevada* (MWH Americas, Inc., December 2003) (hereinafter, “Hydrogeologic Characterization Workplan”). Surface soil samples will be collected using a stainless steel trowel. Subsurface soils from each sampled two-foot interval (i.e., 4 to 6 feet below ground surface [bgs] and 9 to 11 feet bgs) will be homogenized in a stainless steel bowl. Subsurface soil samples will be collected from the homogenized soil for analysis.

Because insufficient data exist to evaluate whether concentrations of potential site-related chemicals in surface samples are not significantly different from subsurface samples, both horizons will be analyzed. The surface zone is considered to be the top 0.5 foot below ground surface. Subsurface is thus defined as the soil below 0.5 ft bgs. Soil samples will be collected from the surface and subsurface in each boring: surface samples will be collected from 0-0.5 feet bgs, and subsurface samples will be collected from 4-6 ft bgs, and 9-11 ft bgs, as follows:

| Zone | Sample Interval (ft bgs) |
|------------|---|
| Surface | 0 to 0.5 |
| Subsurface | 4 to 6; core homogenized 9 to 11, core homogenized |

Since three borings at at least eight locations will be advanced, a minimum of 24 samples from each sample interval will be collected, for a minimum total of 72 soil samples.

2.3 *SAMPLE ANALYSIS*

The samples will be submitted for analysis to a Nevada-certified laboratory (STL- St. Louis, Missouri office). Analysis of surface and subsurface soil samples will include a full suite of metals, anions (chloride, fluoride, sulfate, nitrate and nitrite) and radionuclides. The individual analytes, analytical methods, and practical quantitation limits (PQLs) are specified on Table 3. These analytes and methods are consistent with the analytical program previously established for the Common Areas project and the TIMET site with input from NDEP. For this project, the laboratory will be instructed to report analytical results to the sample-specific method detection limit (MDL), which is equivalent to the sample quantitation limit (SQL). Concentrations detected above the SQL but below the PQL will be flagged with a qualifier to indicate an “estimated” concentration. Concentrations less than the SQL will be qualified as nondetections.

Background soil samples will be further evaluated by analysis of the following general soil characteristics: total organic carbon (TOC), pH, salinity, cation exchange capacity, soil texture and moisture content. These data will be used to define soil characteristics and assess soil heterogeneity.

2.4 *QA/QC SAMPLES*

Data quality is assessed or monitored by performing routine QC checks and/or analyzing QC samples throughout the project. QC procedures are used in the evaluation of data quality as it relates to a specific set of data. The purpose of QC activities is to provide methods for monitoring, verifying, or quantifying the consistency of data against established goals. QC will be monitored during the site closure sample collection activities, both in the field and in the laboratory, through the collection and analysis of QC samples. QC samples will be collected in the field and submitted to the laboratory for analysis. Results of QC samples will be analyzed to assess whether field procedures are compromising data quality. In addition, the laboratory will analyze several types of QC samples to monitor laboratory quality to demonstrate that the laboratory is producing data of acceptable quality.

This section details the various QC samples that will be collected and analyzed to verify project data are of acceptable quality and can be used for decision-making. The frequencies prescribed below are based on

recommendations in EPA SW-846 to document precision, accuracy, representativeness, comparability, and completeness.

2.4.1 *Field Quality Control Samples*

Several types of field QC samples will be collected and submitted for analysis. Each of the QC samples monitors a different aspect of the field effort. Results of QC sample analysis provide information regarding the adequacy of the sample collection and transportation of samples. The following QC samples will be incorporated in the background sampling program, at the frequency specified below.

2.4.1.1 *Temperature Blanks*

Temperature blanks will be used to monitor temperature within the sample coolers. Temperature blank results outside of acceptable limits (2° to 6°C) are indicative of unacceptable sample preservation for analyses with temperature preservation requirements, and may require the recollection of samples. Temperature requirements will not be applied to sample shipments that arrive at the laboratory within 4 hours of collection.

A vial set filled with organic-free water will be prepared and supplied by the laboratory, and placed in the sample cooler prior to collection of the samples. The temperature blank is stored with the sample until receipt at the laboratory, at which time its temperature is immediately measured and recorded on the sample log-in form. Temperature blanks will be included in ice-chests containing samples with temperature requirements (e.g., anions), but are not required for those samples undergoing analyses that do not have temperature preservation requirements (e.g., most metals, and radionuclides).

2.4.1.2 *Rinseate Blanks*

Rinseate blank samples will be used to monitor equipment decontamination procedures. Positive detections in the rinseate blank sample results may be an indication of ineffective equipment decontamination procedures and carryover contamination of subsequent samples collected using the same sampling equipment. Sample detections at similar concentrations as those reported in associated rinseate blank samples are considered suspect and may be qualified as estimated or non-detect during data validation. Rinseate blanks will be prepared by pouring contaminant-free, reagent water through the decontaminated equipment into sample containers. The sample will be given a QC name

consistent with the sample nomenclature established for the project. The sample label will be completed by field personnel to include date, cooler identification, and method of analysis, and the rinseate blank will then be stored with the project samples until they are delivered for analysis to the laboratory. Rinseate blanks will be collected at a frequency of one sample per 20 samples collected, or one per day.

2.4.1.3 *Field Splits*

Because matrix heterogeneity may affect interpretation of soil sample results, field splits (sub-samples collected from the same sample composited in the field) will be used to monitor field and laboratory precision. Split samples will be collected at a frequency of one set per 20 soil samples collected. While results are not qualified based on field split results, large variability may indicate that the sample is not representative.

2.4.2 *Laboratory Quality Control Samples*

Laboratory QC samples will include the use of method blanks, matrix spike (MS) samples, laboratory control samples, laboratory duplicates, and other laboratory QC measurements will be monitored to ensure accurate and precise results. The laboratory QC samples applicable to the background sampling effort are defined in the following subsections.

2.4.2.1 *Method Blank*

Method blanks will be used to monitor that the analytical system is free of contamination due to carryover from previous samples or from laboratory procedures. A method blank will be prepared using either laboratory reagent water or reagent soil. The reagent matrix will be prepared and analyzed in the same manner as the samples by the laboratory. A method blank will be performed at least once per day for each matrix and method utilized by the laboratory for that day. A maximum of 20 samples will be associated with a method blank. Target analytes should not be present at levels above the Practical Quantitation Limit (PQL) as shown in Table 3. Project samples that are associated with blanks that do not meet control criteria and exhibit detections of the blank contaminant will be reanalyzed and, if necessary, re-prepared and reanalyzed.

2.4.2.2 *Matrix Spike*

MS samples will be utilized to monitor and assess the effects of the sample matrix on the sample analysis and to verify accuracy of the analysis.

MS samples will be prepared by adding known quantities of target analytes to a sample. The results of the analysis will be compared with the known concentrations added to the sample, and a percent recovery will be calculated. The calculated recovery provides an evaluation of the effect of the sample matrix and accuracy of the analysis procedure. Accuracy objectives are based on statistically generated limits established annually by the analytical laboratory. No corrective action or reanalysis of samples is required for MS recoveries outside of acceptable limits, but the data will be qualified when spike recoveries are outside acceptable limits. MS samples will be prepared and performed by the laboratory at a frequency of one per batch of 20 samples.

2.4.2.3 *Laboratory Control Sample*

Laboratory control samples (LCSs) will be used to monitor the accuracy of the analytical procedure without the bias of a matrix. The LCS will be prepared similarly to a MS sample using the same spiking constituents, except a control (clean, reagent) matrix will be utilized. The LCS recovery will be calculated in the same way as the MS recovery. LCS objectives are based on statistically generated limits established annually by the analytical laboratory. LCSs with recoveries outside of acceptable limits will be reanalyzed along with each of the associated samples in the batch. LCS samples will be prepared and performed by the laboratory at a frequency of one per batch of 20 samples.

2.4.2.4 *Laboratory Duplicate Sample*

Laboratory duplicate samples (LDSs) will be used to monitor and assess laboratory precision as well as potential matrix heterogeneity. Laboratory duplicate samples will be performed by taking an additional aliquot of sample and analyzing it in the same manner as the samples. The two results will be compared and a relative percent difference (RPD) will be calculated. The RPD is compared to laboratory-derived control limits. If elevated RPDs are calculated, it is considered to be reflective of matrix heterogeneity. Affected data will be qualified when RPDs are the only QA/QC criterion. A laboratory duplicate will be performed at a frequency of one per batch of 20 samples.

2.4.2.5 *Internal Standards*

Internal standard calibration involves the comparison of instrumental responses from the target analytes in the sample to the responses of specific standards added to the sample or extract prior to injection. Internal standards will be conducted for each sample analysis performed

on instruments equipped with a mass spectrometer (for example, ICP-MS). The ratio of the peak area (or height) of the target compound in the sample or sample extract to the peak area (or height) of the internal standard in the sample or sample extract will be compared to a similar ratio derived for each calibration standard. The ratio is termed the response factor (RF). For this investigation, methods that utilize internal standards will be evaluated by the laboratory, and any necessary corrective action will be performed prior to finalization of the data set.

ICP-MS internal standard response will be compared to the initial calibration response. ICP-MS internal standard response should be within ± 30 percent of the intensity of the initial calibration standard. The retention time of the sample internal standards must be ± 30 seconds of the retention time observed in the continuing calibration standard. In the event that sample internal standards fail this criteria, the laboratory will either reanalyze and/or re-extract the sample to determine the source of the failure.

Dilution of the sample or extract may be required to reduce or remove interferences from the sample matrix. The laboratory will include response and/or retention time exceedences for failing internal standards in the associated data report.

2.4.2.6 *Instrument Tune*

The performance of an instrument equipped with a mass spectrometer detector will be checked at 12-hour intervals, and shown to be within method or manufacturer specifications prior to use. The checks will be performed to verify mass resolution, identification, and to some degree, sensitivity. Conformance will be determined using standard materials, therefore, the method or manufacturer's criteria should be met in all circumstances. Instruments with failing tunes will not be used to analyze project samples.

2.4.2.7 *Interference Check Samples*

Spectral interferences will be assessed during the analysis for metals using interference check procedures for ICP or ICP-MS. Interferences may be caused by background emission from continuous or recombination phenomena, stray light from high concentration elements, overlap of spectra from other elements, or unresolved overlap of molecular band spectra. The laboratory will correct and monitor these interferences through background corrections and the analysis of interference check

samples. Background corrections to the instrument will be performed following the EPA SW-846 method protocols.

The laboratory will analyze at least one interference check sample set with each batch of samples analyzed by ICP or ICP-MS. Necessary corrective actions (dilution or reanalysis) will be performed by the laboratory for samples exhibiting elevated concentrations of the known interferent analytes: aluminum, calcium, iron, and magnesium.

2.4.2.8 *Post-Digestion Spike*

A matrix spike will be conducted by spiking a sample before or during digestion. However, to separate matrix interferences from interferences introduced during the digestion of samples, it may be necessary to spike samples after the digestion (post-digestion spike). If the MS recovery is not within method-specified limits, a matrix effect should be suspected and a post digestion spike will be conducted. EPA SW-846 method protocols will be followed by the laboratory when performing post-digestion spikes.

3.0 DATA EVALUATION AND REPORTING

Data evaluation and reporting includes an assessment of the quality of the data, as described in the quality assurance and quality control (QA/QC) review process in the QAPP, as well as a geochemical and statistical evaluation of the data. These two types of data evaluation are described in the following sections.

3.1 DATA REVIEW

The data obtained during the background sampling activities described in this workplan will undergo a rigorous QA/QC review, in accordance with the procedures described in the Quality Assurance Project Plan (QAPP) developed for the Common Areas project (see Appendix D of the Hydrogeologic Characterization Workplan). This section describes the procedures that are planned to review, verify, and validate field and laboratory data. This section also discusses procedures for verifying that the data are sufficient to meet DQOs for the project. Only those data determined as a result to be suitable for use will be considered for the background data set.

3.1.1 Data Review, Verification, and Validation

Validation and verification of the data generated during field and laboratory activities are essential to obtaining defensible data of acceptable quality. Verification and validation methods for field and laboratory activities are presented below.

3.1.1.1 Field Data Verification

Project team personnel will verify field data through reviews of data sets to identify inconsistencies or anomalous values. Any inconsistencies discovered will be resolved as soon as possible by seeking clarification from field personnel responsible for data collection. All field personnel will be responsible for following the sampling and documentation procedures described in this workplan so that defensible and justifiable data are obtained.

Data values that are significantly different from the population are called “outliers.” A systematic effort will be made to identify any outliers or errors before field personnel report the data. Outliers can result from

improper sampling or measurement methodology, data transcription errors, calculation errors, or natural causes. Outliers found during data verification as a result of sampling, measurement, or transcription errors will be identified and corrected; outliers that cannot be attributed to errors in sampling, measurement, transcription, or calculation will be clearly identified in project reports, but not excluded from the data set.

3.1.1.2 *Laboratory Data Verification*

Laboratory personnel will verify analytical data at the time of analysis and reporting and through subsequent reviews of the raw data for any nonconformances to the requirements of the analytical method. Laboratory personnel will make a systematic effort to identify any errors before they report the data. Outliers that result from errors found during data verification will be identified and corrected; outliers that cannot be attributed to errors in analysis, transcription, or calculation will be clearly identified in the case narrative section of the analytical data package, but will not be excluded from the data set.

3.1.1.3 *Laboratory Data Validation*

An experienced chemist, who is independent from the activities of this project and designated by the project QA Manager, will validate all laboratory data in accordance with current EPA national functional guidelines ([EPA 1999](#), 2004). For this project, 90 percent of the data for project analytes will undergo data review in accordance with the project QAPP and 10 percent of the data for project analytes will undergo full validation. Requirements for cursory and full validation are listed below.

3.1.1.4 *Data Review*

Data review will be completed on 90 percent of the summary data packages for analysis of contaminants of concern. Elimination of the data from the review process is not allowed. All data will be qualified as necessary in accordance with established criteria. Data summary packages will consist of sample results and QC summaries, including calibration and internal standard data.

3.1.1.5 *Full Data Validation*

Full validation will be completed on 10 percent of the full data packages for analysis of contaminants of concern. All data will continue through the validation process and will be qualified in accordance with established criteria. Data summary packages will consist of sample results, QC

summaries, and all raw data associated with the sample results and QC summaries.

3.1.2 *Reconciliation with User Requirements*

After environmental data have been reviewed, verified, and validated in accordance with the procedures described in [Section 3.1.1](#) and the QAPP, the data must be further evaluated to determine whether DQOs have been met.

To the extent possible, data will be evaluated according to EPA's data quality assessment (DQA) process to verify that the type, quality, and quantity of data collected are appropriate for their intended use. DQA methods and procedures are outlined in EPA's "Guidance for Data Quality Assessment, Practical Methods for Data Analysis" ([EPA 2000](#)). The DQA process includes five steps: (1) review the DQOs and sampling design; (2) conduct a preliminary data review; (3) select a statistical test; (4) verify the assumptions of the statistical test; and (5) draw conclusions from the data.

3.2 *STATISTICAL EVALUATION*

The data deemed suitable for use based on the QA/QC review will then be subjected to statistical analysis. Exploratory data analysis will include evaluation of normal probability plots and summary statistics. Normal probability plots of untransformed and log transformed data will be used to evaluate whether multiple populations or outliers are present. Distributional testing (e.g., Shapiro-Wilk test) and probability plots will be used to identify the type of data distribution for each chemical. Statistical tests for comparing data sets will be selected based on characteristics of the data sets.

The number of samples needed to adequately characterize the chemistry of background soils was calculated using existing data from the Environ study. Adequacy is defined by the capacity to achieve the confidence and power goals established in project DQOs (see Step 6 in Table 1). The analysis of the Environ data for arsenic and lead indicated that from 7 to 64 samples would be necessary to achieve initial (90% confidence, 90% power) or relaxed (90% confidence, 80% power) goals (Table 4, Figures 4 and 5). Based on this analysis, the sampling design includes three borings at a minimum of eight locations, with samples from each boring to be treated as independent samples. This provides a minimum of 24 samples for each depth interval, and minimum of 72 total samples. As discussed

below, data for different depths may be pooled if the data are statistically similar. This would create a more robust background population for use in future site-to-background statistical comparisons.

Two-sample statistical tests (e.g., t-test for parametric data or Wilcoxon Rank Sum test for nonparametric data) will be used to make various comparisons, including the following:

- Existing (i.e., 2003 Environ data) and new background data sets;
- Background data sets associated with samples collected downslope from the McCullough Range and downslope from the River Mountains;
- Background data sets associated with samples collected from 0-0.5 foot, 4 to 6 foot, and 9-11 foot bgs depth intervals.
- Site-to-background comparisons in future site investigations

For this investigation, the two-sample statistical tests will be used to evaluate whether the data being compared are from the same population. Data sets derived from the same population are statistically indistinguishable, indicating that the data sets may be pooled for use in future site-to-background comparisons. As noted in the DQO table, the null hypothesis states that data for different depth intervals are comparable (item 2 in Step 6) and that data for this investigation and the Environ study are comparable (item 3 in Step 6). If the data sets for different depths or the different studies are found to be statistically different ($p < 0.05$), then the need for more than one background data set will be evaluated. If the concentrations of chemicals are found to be statistically indistinguishable ($p > 0.05$), the background data will be compiled as one data set. Summary statistics, probability plots, and results of distributional tests will be compiled for the pooled data or for multiple data sets, depending on the outcome of the statistical tests. Results of statistical comparison tests will also be summarized. If two or more background data sets are identified, BRC/TIMET will coordinate with NDEP on how the data will be used.

The data sets (pooled or multiple) will be assessed for possible outliers. Identified outliers will be evaluated and will be excluded from the background data set if they are found to be the result of error. As described in guidance from the U.S. Environmental Protection Agency (EPA 2000), "outliers may result from transcription errors, data-coding errors, or measurement errors..." or "may represent true extreme values of a distribution and indicate more variability in the population than was expected." No data point should ever be excluded based solely on the

results of a statistical test, and expert judgment will be used when assessing outliers.

3.3 **REPORTING AND APPLICABILITY OF RESULTS**

The results of the soil sampling and analysis will be summarized in a brief report that will be prepared and submitted to the NDEP. The report will include a tabulated summary of analytical data, appended laboratory reports, a QA/QC review summary, and the results of the statistical testing (including statistical plots).

Applicability and use of the background data will be addressed on a case-by-case basis in future workplans. Ideally, the background data will be used in site-to-background statistical comparisons to identify site-related metals and radionuclides as chemicals of potential concern for further investigation.

The analytical data for background samples will be used to update the Site Model for the Common Areas project (latest draft submitted as part of the *Closure Plan for the Upper and Lower Ponds and Ditches* [BRC/DBSA/ERM/MWH, October 2004]) and the conceptual site model currently being developed by TIMET for the TIMET site.

4.0

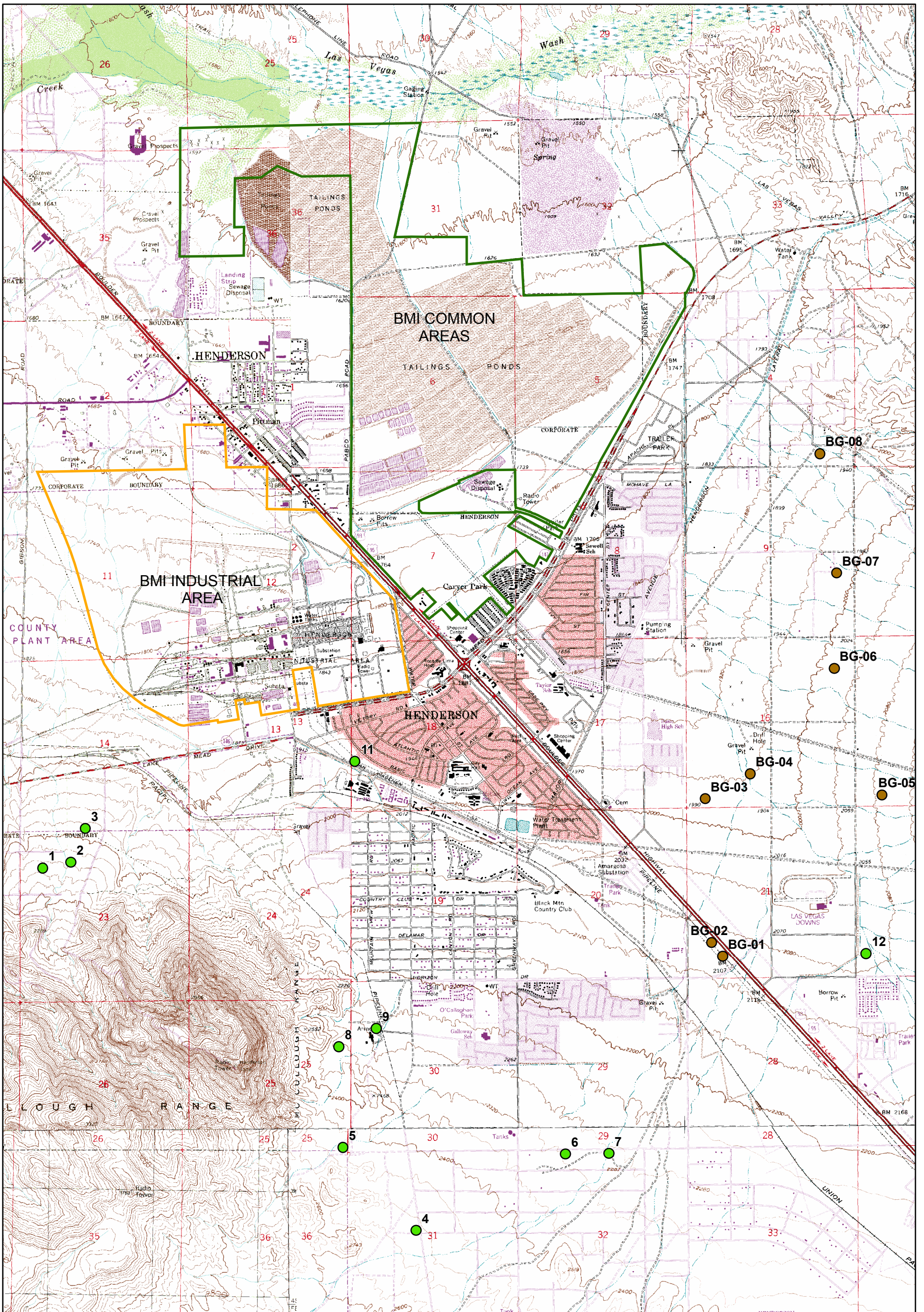
SCHEDULE

Field activities will be initiated immediately upon receipt of NDEP approval to proceed, and after obtaining authorizations to proceed by the property owners. It is anticipated that field activities can be completed within a one-week period. Assuming a 3-week period for laboratory analysis, a 10-week period for data validation, data review, statistical evaluation and report preparation, it is anticipated that the report of findings will be submitted to NDEP within 3 months of fieldwork initiation.

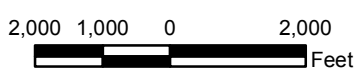
REFERENCES

- Environ. 2003. "Risk Assessment for the Water Reclamation Facility Expansion Site, Henderson, Nevada". Volume II, Appendix E. October 15.
- MWH Americas, Inc. 2003. "Part Three of Appendix D of the Final Hydrogeologic Characterization Workplan- BMI Site - Clark County, Nevada". December.
- Nevada Bureau of Mines and Geology (NBMG). 1980. "Las Vegas SE Folio Geologic Map (1977) and the Geologic Map of the Henderson Quadrangle, Nevada".
- U.S. Environmental Protection Agency (EPA). 1996. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Update III." Office of Solid Waste and Emergency Response. Washington, DC. December.
- EPA. 1999. "National Functional Guidelines for Organic Data Review." Office of Emergency and Remedial Response. Washington, DC. EPA-540/R-99-008. October.
- EPA. 2000. "Guidance for Data Quality Assessment: Practical Methods for Data Analysis". July.
- EPA. 2004. "National Functional Guidelines for Inorganic Data Review." Office of Emergency and Remedial Response. Washington, DC. EPA-540/R-04-004. October.
- Nevada Bureau of Mines and Geology (NBMG). 1980. "Las Vegas SE Folio Geologic Map (1977) and the Geologic Map of the Henderson Quadrangle, Nevada".

Figures



- Proposed Background Soil Sample Location
- ENVIRON Background Soil Sample Location



BMI Site
Henderson, Nevada

FIGURE 1

SITE LOCATION AND TOPOGRAPHIC MAP

Nevada-Clark Co. 7.5 Minute Series (Topographic)
Henderson, Nevada SE, Boulder City NW, and Sloan NE Quadrangles

| | | |
|---------------------|------------------|---|
| Prepared by: MKJ | Date 04/08/05 | JOB No. 1881262 FILE: GIS/BRC/BKGD_FIGURE1.MXD |
|---------------------|------------------|---|

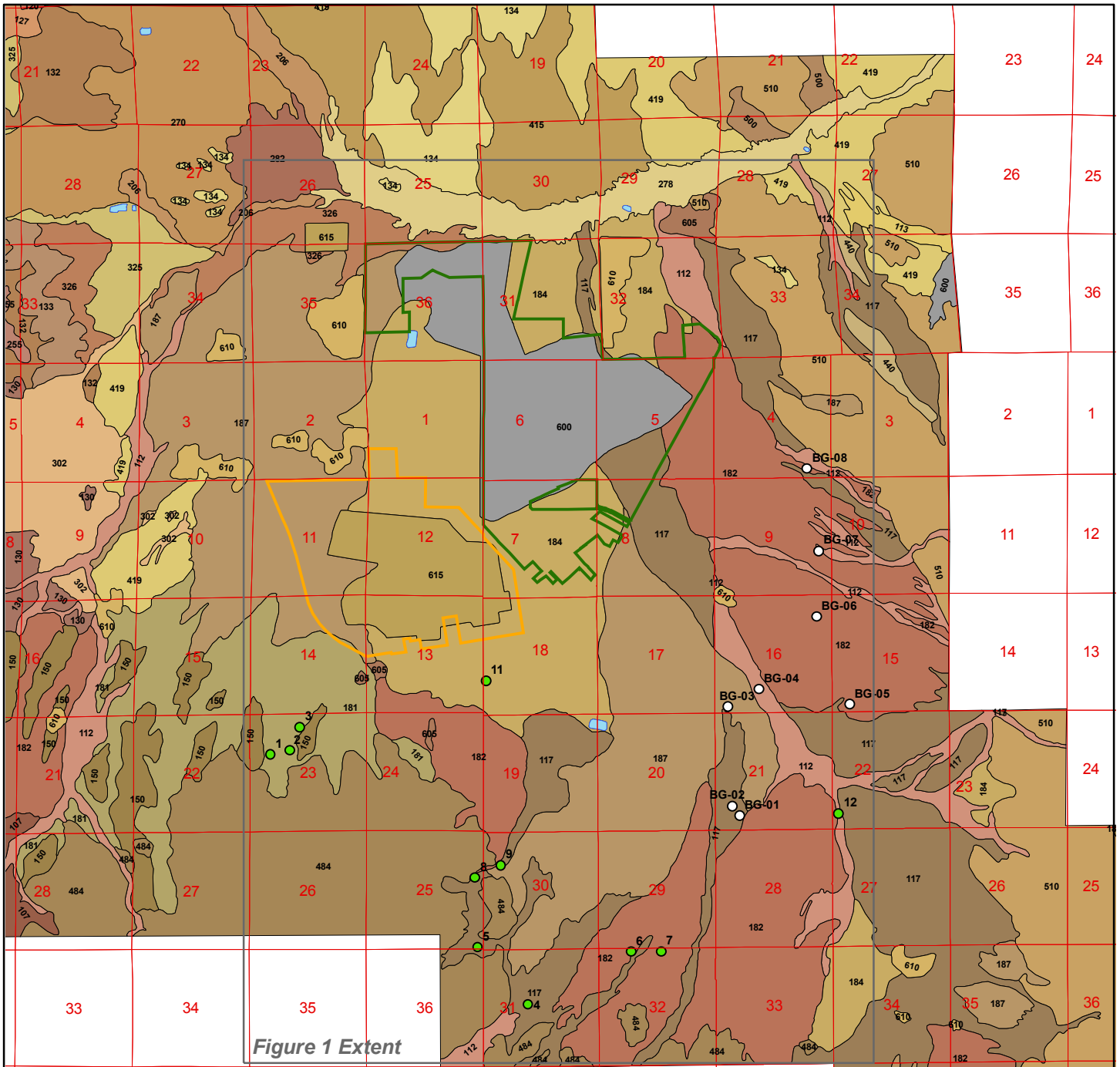
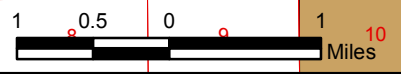


Figure 1 Extent

| Soil Unit | | | | | |
|-----------|-----|-----|-----|-----|--|
| 105 | 150 | 206 | 300 | 418 | 545 |
| 107 | 151 | 222 | 301 | 419 | 600 |
| 112 | 152 | 236 | 302 | 430 | 605 |
| 113 | 155 | 237 | 305 | 440 | 610 |
| 117 | 160 | 240 | 307 | 450 | 615 |
| 120 | 181 | 252 | 325 | 481 | 630 |
| 127 | 182 | 255 | 326 | 484 | 635 |
| 128 | 183 | 260 | 341 | 500 | 640 |
| 129 | 184 | 262 | 360 | 501 | 645 |
| 130 | 187 | 263 | 380 | 502 | Water |
| 132 | 190 | 264 | 390 | 505 | Common Areas |
| 133 | 191 | 270 | 400 | 510 | Industrial Complex |
| 134 | 192 | 278 | 415 | 540 | Proposed Background Soil Sample Location |
| 140 | 200 | 282 | 417 | 542 | ENVIRON Background Soil Sample Location |



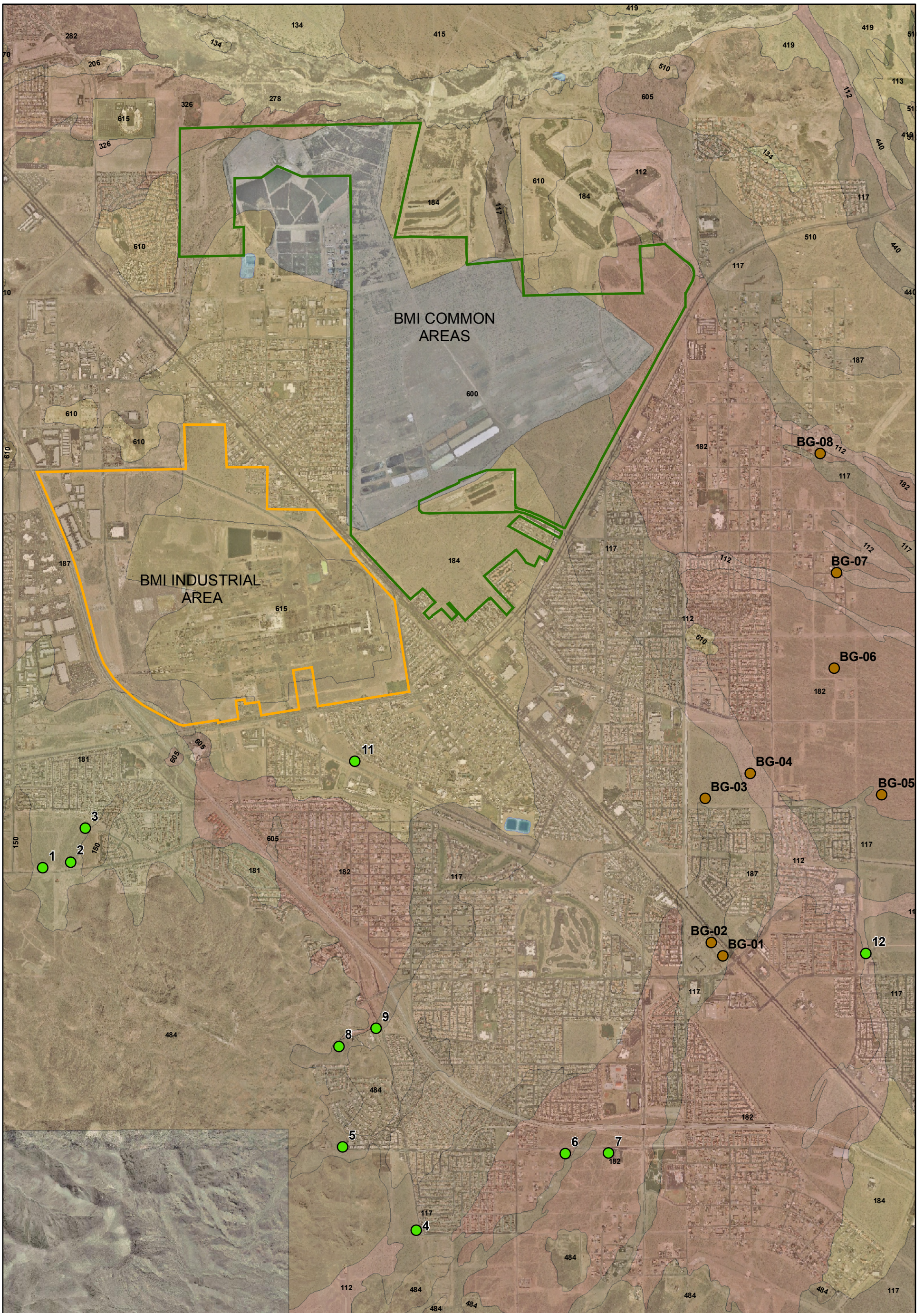
BMI Site
Henderson, Nevada

FIGURE 2

SUMMARY OF SOIL SURVEY DATA FOR THE COMMON AREAS VICINITY

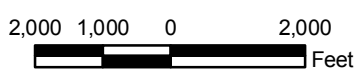
| | | |
|---------------------|------------------|---|
| Prepared by: MKJ | Date 04/08/05 | JOB No. 1881262 FILE: GIS/BRC/BKGD_FIGURE2.MXD |
|---------------------|------------------|---|

Reference: Soil Survey of Las Vegas Valley Area, Nevada, Part of Clark County. U.S. Department of Agriculture, Soil Conservation Service, 1985. An evaluation was made of the soil survey in 1996. It was determined that soil delineations and map unit components were accurate. (Source: Soil Survey Geographic (SSURGO) database. U.S. Department of Agriculture, Natural Resources Conservation Service, 2004.)



| Soil Unit | |
|-----------|-----|
| 112 | 187 |
| 117 | 484 |
| 150 | 510 |
| 181 | 605 |
| 182 | 610 |
| 184 | 615 |

- Proposed Background Soil Sample Location
- ENVIRON Background Soil Sample Location

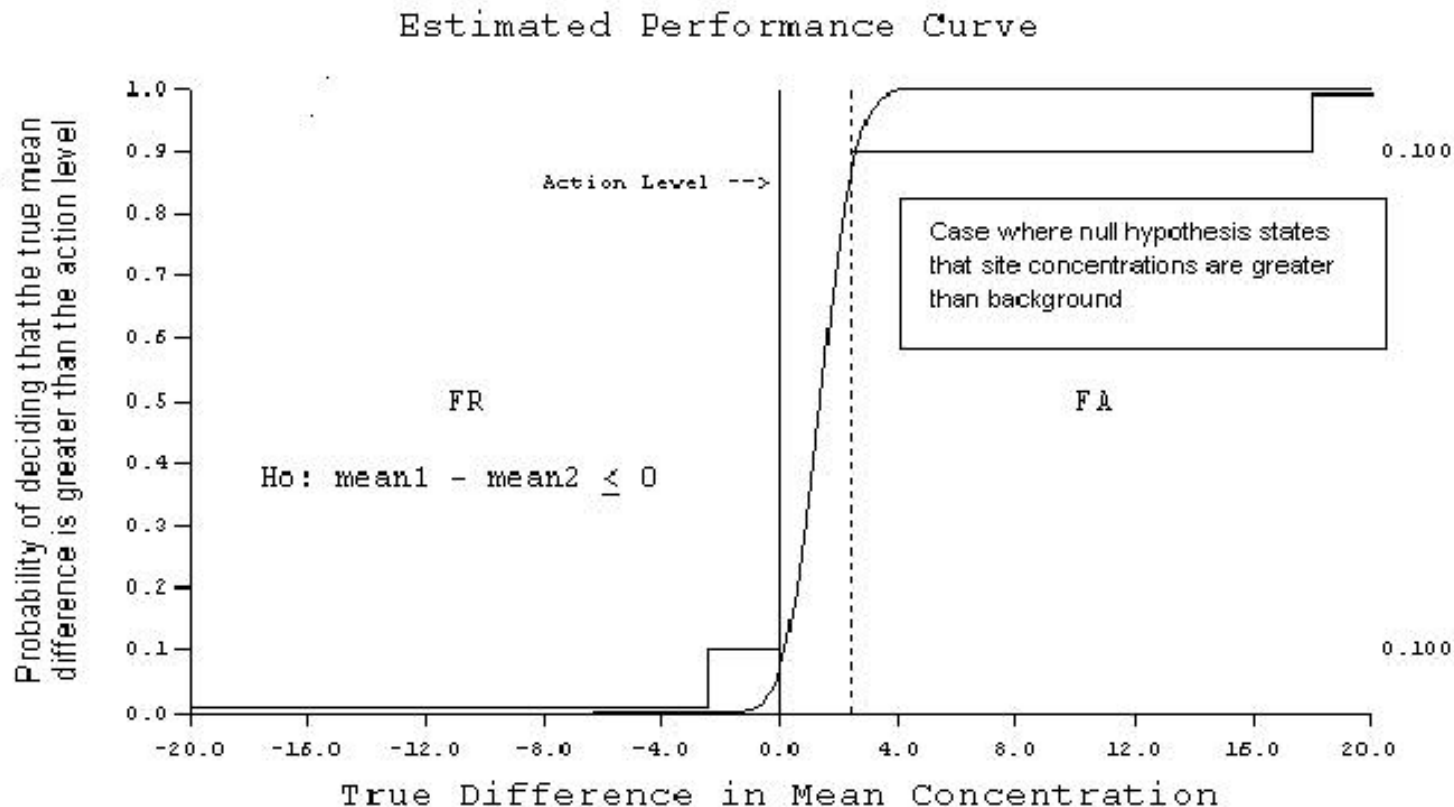


Spring 2004 Aerials.
 Note: Due to lack of availability in the Spring 2004 aerial files, some aerials are from Spring 2003.

BMI Site
 Henderson, Nevada
FIGURE 3

**AERIAL PHOTOGRAPH
 OF THE COMMON
 AREAS VICINITY**

| | | |
|-------------------------|------------------|---|
| Prepared by: MKJ MWH | Date 04/08/05 | JOB No. 1881262 FILE: GIS/BRC/BKGD_FIGURE3.MXD |
|-------------------------|------------------|---|



Simple Random Sampling
Action Level = 0.000

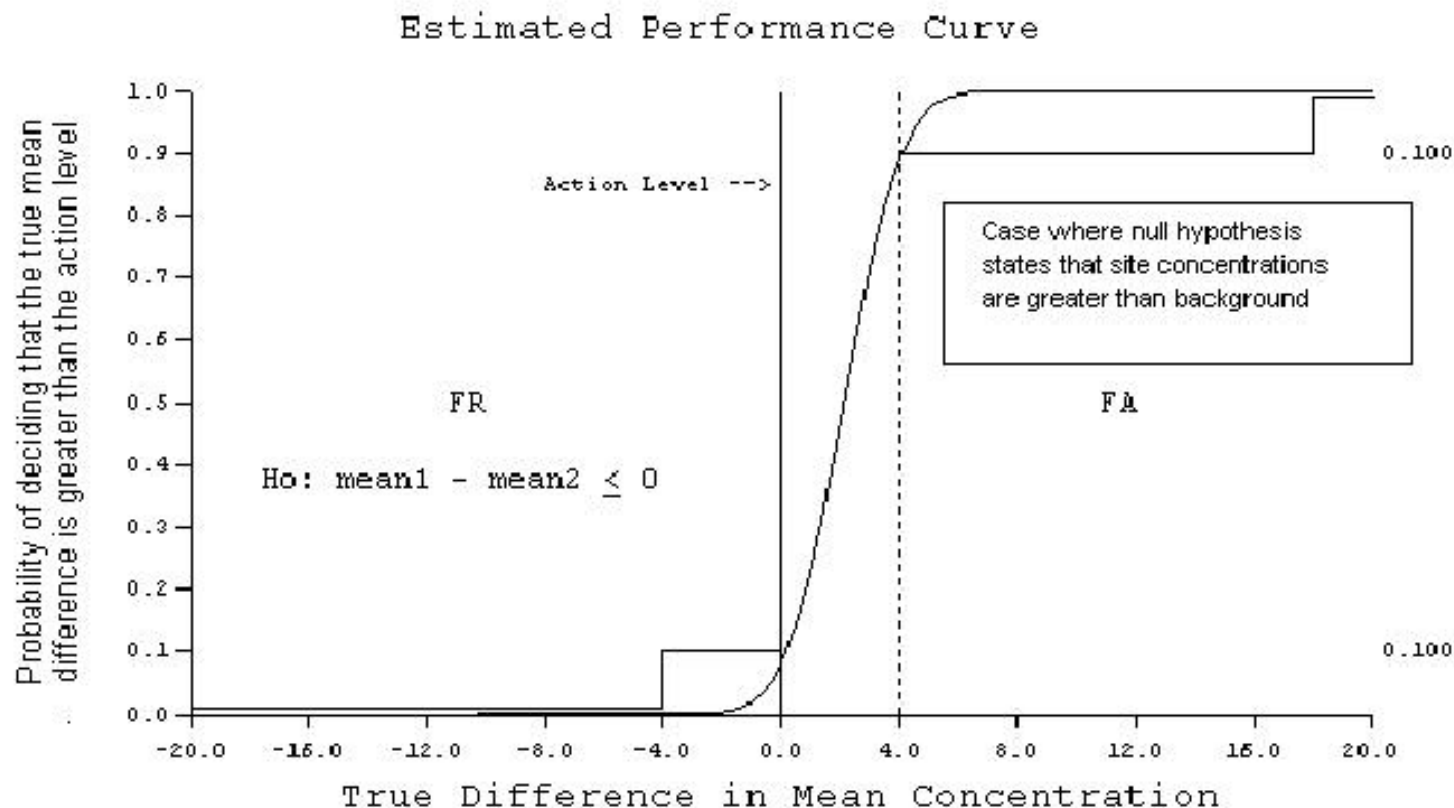
Sample Size = 67 (Note similarity to n = 64 calculated in Excel)

Case for lead in subsurface soil, 90% confidence, 90% power, 20% MDRD, and mean = 12, SD = 5.2

| Decision Error Limits | | |
|-----------------------|---------|------|
| concentration | prob(E) | type |
| -2.400 | 0.010 | FR |
| 0.000 | 0.100 | FR |
| 2.400 | 0.100 | FA |
| 18.000 | 0.010 | FA |

Figure 4
*Estimated Performance Curve - Lead In Subsurface Soil
(90% Confidence, 90% Power, 20% MDRD, and Mean = 12, SD = 5.2)
BMI Upper and Lower Ponds and Ditches
Henderson, Nevada*

Reference: Power curves generated using EPA's DEFT software: "Data Quality Objectives Decision Error Feasibility Trials Software", Users Guide, and EPA/240/B-01-007, September 2001.



Simple Random Sampling
Action Level = 0.000

Sample Size = 13 (Note similarity to n = 12 calculated in Excel)

Case for lead in surface soil, 90% confidence, 90% power, 20% MDRD and mean = 20, SD = 3.6

| Decision Error Limits | | |
|-----------------------|---------|------|
| concentration | prob(E) | type |
| -4.000 | 0.010 | FR |
| 0.000 | 0.100 | FR |
| 4.000 | 0.100 | FA |
| 18.000 | 0.010 | FA |

Figure 5
*Estimated Performance Curve - Lead In Subsurface Soil
(90% Confidence, 90% Power, 20% MDRD, and Mean = 20, SD = 3.6)
BMI Upper and Lower Ponds and Ditches
Henderson, Nevada*

Reference: Power curves generated using EPA's DEFT software: "Data Quality Objectives Decision Error Feasibility Trials Software", Users Guide, and EPA/240/B-01-007, September 2001.

Tables

**TABLE 1
DQO STEPS FOR BACKGROUND SOIL SAMPLING**

| STEP 1 | STEP 2 | STEP 3 | STEP 4 | STEP 5 | STEP 6 | STEP 7 |
|---|--|--|---|---|---|--|
| State the Problem | Identify the Decisions | Identify the Inputs to the Decisions | Define Study Boundaries | Develop Decision Rules | Specify Tolerable Limits on Errors | Optimize Sampling Design |
| <p>Chemicals potentially associated with site-related activities have been found in surface and subsurface soils; however, is it not known if these chemicals are present at concentrations significantly greater than background levels.</p> <p>Insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed concentrations of these chemicals in background soil.</p> <p>Insufficient background data exist to evaluate whether concentrations of potential site-related chemicals in historical samples of background surface soil are not significantly different from historical samples of background subsurface soil.</p> <p>It is not known if existing background data will be comparable to newly collected data, therefore statistical comparisons of the old</p> | <p>(1) Are soils at the proposed background sampling locations comparable to site soils, based on characteristics such as TOC, pH, salinity, CEC, soil texture and moisture?</p> <p>(2) Are concentrations of site-related chemicals in the three depth intervals (0-0.5, 4-6, and 9-11 feet bgs) statistically indistinguishable?</p> <p>(3) Are data collected from various geologic settings (McCullough Range and River Mountains) statistically indistinguishable?</p> <p>(4) Are data collected from this background soils study comparable to (that is, statistically indistinguishable from)+ the background soils data provided by Environ for the City of Henderson?</p> <p>(5) Are concentrations of site-related chemicals in site soils statistically significantly greater than in background soils sampled for this</p> | <p>Validated defensible chemical data for surface soil and subsurface soil samples collected at background locations.</p> <p>Characterization of surface and subsurface conditions by a professional geologist.</p> <p>Land survey and GPS location data.</p> <p>Data from previous background study conducted by Environ for the City of Henderson.</p> <p>Historical knowledge of site-related chemicals.</p> <p>Soil survey of Las Vegas Valley Area by Soil Conservation Service.</p> <p>Geologic maps</p> <p>Geotechnical data for all soil samples (grain-size distribution, pH, CEC, TOC, salinity, and moisture content)</p> | <p>Surface soils (0 to 0.5 feet bgs) at background locations shown on Figure 2.</p> <p>Subsurface soils (4 to 6 and 9 to 11 feet bgs) at background locations shown on Figure 2.</p> <p>The lateral boundaries of the study area are shown on Figure 2 and include logistically accessible sampling sites upwind and upgradient of the site. Eleven locations were identified as suitable for sampling and as many of these sites as possible will be sampled, with a minimum of eight sites sampled.</p> <p>The location of sites that may be evaluated using background sampling results are the BMI Common Areas and the BMI Industrial Area as outlined on Figures 1, 2, and 3.</p> <p>Technical period of performance of 2 months is anticipated for completion of the field-sampling phase of</p> | <p>(1a) If, based on the data collected, background soil samples are comparable to site soils, and then data will be used in statistical tests comparing site and background data sets for site-related chemicals.</p> <p>(1b) If, based on data collected, background soil samples are not comparable to site surface and subsurface soils, then alternate background locations may be proposed.</p> <p>(2a) If concentrations of site-related chemicals are not statistically distinguishable, then background data for these depth intervals may be combined.</p> <p>(2b) If concentrations of site-related chemicals are statistically different, then background data for these depth intervals may not be combined.</p> <p>(3a) If data from various geologic settings are not statistically distinguishable, then background data for these settings may be combined.</p> <p>3(b) If data from various geologic settings are statistically different, then background data for these settings may not be combined.</p> | <p>The null hypotheses for the different aspects of this study are:</p> <p>(1) Characteristics of background soils are comparable to site soils (this is more a qualitative to semi-quantitative assessment than rigorous statistical testing identified for items 2, 3, and 4 below)</p> <p>(2) Concentrations of metals and radionuclides in surface soil (0 to 0.5 feet bgs) are not statistically distinguishable from concentrations in the 4 to 6 and 9 to 11 foot intervals.</p> <p>(3) Concentrations of metals and radionuclides in background samples collected from the McCullough Range are comparable (that is, are not statistically distinguishable from) the samples collected from the River Range.</p> <p>(4) Concentrations of metals and radionuclides in background soil samples collected for this study are comparable to (that is, are not statistically distinguishable from) the background soils data collected by Environ for the City of Henderson.</p> <p>(5) Concentrations of metals in radionuclides in site soils are statistically significantly greater than in background soils. (This is the null hypothesis to be used in future site-to-background comparisons, because the “burden of proof” is always on the alternative hypothesis. The final composition of the</p> | <p>The sample size for soil determined in DQO Step 6 represents the highest level of confidence that could be achieved, and was based on the variability of existing data (Environ background data set).</p> <p>If the exploratory data analysis (using the data to be collected) indicates that results fall far short of reaching the stated goals for confidence and power in the statistical tests, then the need for additional data and a second phase of sampling will be evaluated.</p> <p>The actual power and confidence achieved must be determined after the data have been collected. These parameters will vary by analyte, and may or may not achieve the stated goals. Consensus with NDEP will be required to assess whether additional data are needed or whether the power and confidence goals can be relaxed in some cases.</p> |

**TABLE 1
DQO STEPS FOR BACKGROUND SOIL SAMPLING**

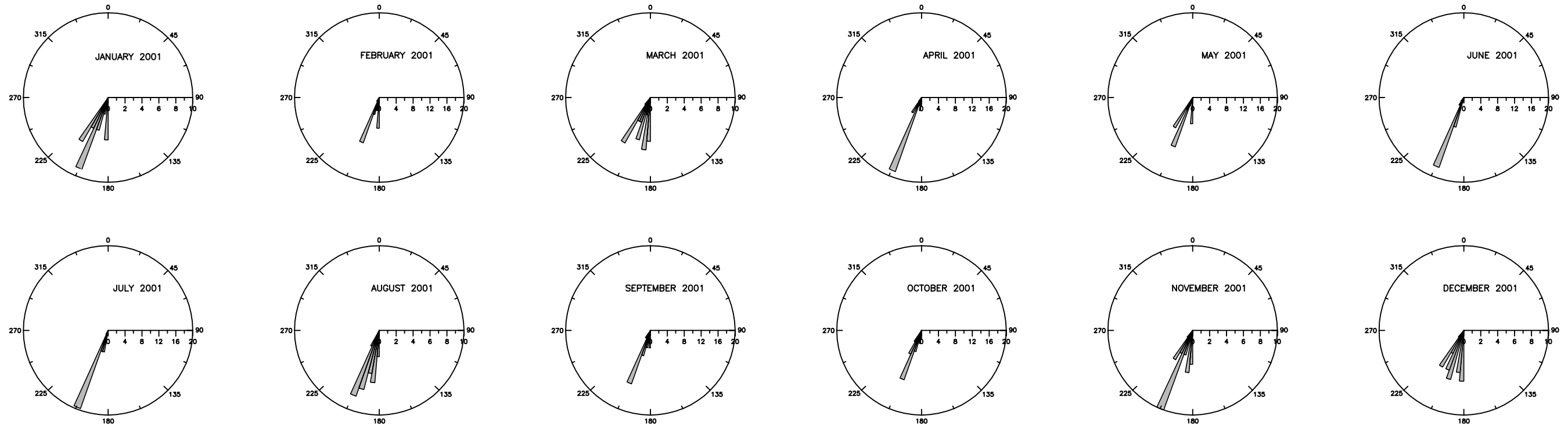
| | | | | | | |
|---|---|--|-------------------|--|---|--|
| <p>and new background data sets are required.</p> | <p>investigation? (This applies to future site-to-background comparisons to be conducted in upcoming site investigations)</p> | | <p>this study</p> | <p>(4a) If data from this background study and the Environ background study are not statistically distinguishable, then background data for these studies may be combined.</p> <p>(4b) If data from this background study and the Environ background study are statistically different, then background data for these studies may not be combined.</p> <p>(5a) If concentrations of site-related chemicals in site soils are statistically indistinguishable from concentrations in these background soils, then eliminate these chemicals as COPCs.</p> <p>(5b) If concentrations of site-related chemicals in site soils are statistically significantly greater than concentrations in background soils, then retain these chemicals as COPCs.</p> | <p>background data set will depend on the answers to items 1-3 above.)</p> <p>Statistical analysis performed on existing metals for lead and arsenic in background surface soil (Environ data set) indicates that a sample size ranging from 12 to 64 (dependent on data variability) would satisfy limiting the uncertainty in the data set: 90% minimum confidence level, 90% minimum power, and 10 to 20% MDRD. (See attached table and power curves.)</p> <p>Relaxing goals to 90% confidence, 80% power reduces the number of samples needed (7 to 64 samples; see attached table).</p> <p>NOTE: These criteria are goals; the actual power and confidence will be determined using the data to be collected. Some or all of the chemicals may meet the most stringent (90% confidence and 90% power) goals.</p> | |
|---|---|--|-------------------|--|---|--|

Notes:

- bgs Below ground surface
- CEC Cation exchange capacity
- COPC Chemical of potential concern
- DQO Data quality objective
- GPS Global positioning system
- MDRD Minimum detectable relative difference
- NDEP Nevada Department of Environmental Protection
- TOC Total organic carbon

Table 2
Wind Direction Data
BMI Common Areas and Complex Vicinity
Las Vegas/Henderson, Nevada

WIND DIRECTION PLOTS – McCarran International Airport – Weather Station #23169



WIND DIRECTION PLOTS – Basic Water and Power Company Meteorological Monitoring Station – 14th Street/Avenue L

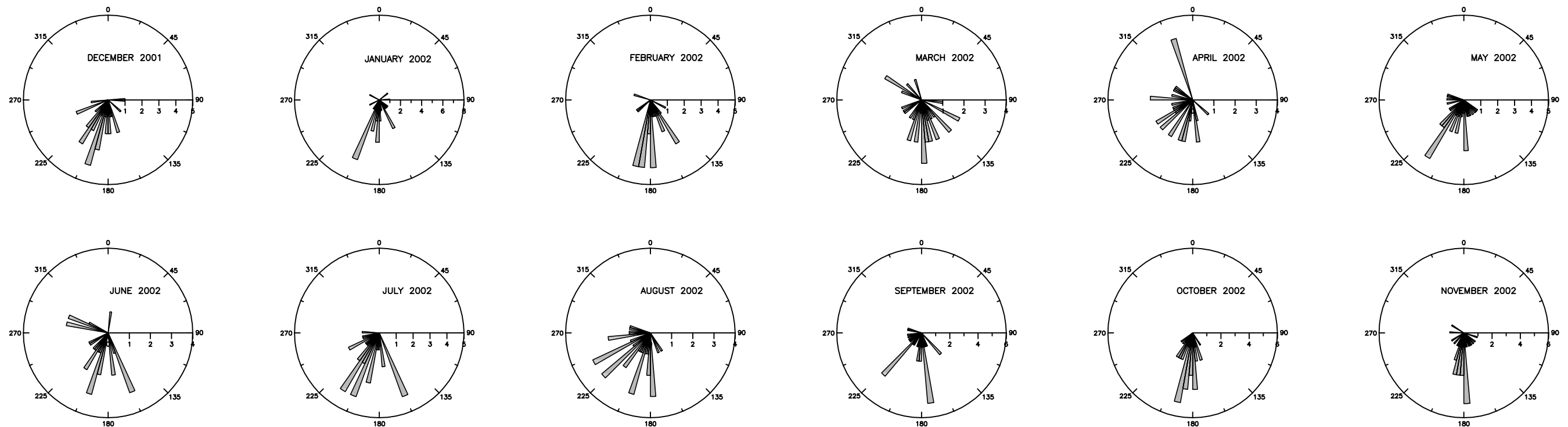


TABLE 3
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

| Parameter of Interest | Analytical Method | Compound List | CAS Number | Practical Quantitation Limit | |
|-----------------------|------------------------|---------------|------------|------------------------------|-------|
| | | | | | |
| Metals | EPA 6020/6010B | Aluminum | 7429-90-5 | 3 | mg/kg |
| | | Antimony | 7440-36-0 | 1 | mg/kg |
| | | Arsenic | 7440-38-2 | 1 | mg/kg |
| | | Barium | 7440-39-3 | 2 | mg/kg |
| | | Beryllium | 7440-41-7 | 0.5 | mg/kg |
| | | Boron | 7440-42-8 | 5 | mg/kg |
| | | Cadmium | 7440-43-9 | 0.5 | mg/kg |
| | | Calcium | 7440-70-2 | 50 | mg/kg |
| | | Chromium | 7440-47-3 | 1 | mg/kg |
| | | Cobalt | 7440-48-4 | 0.5 | mg/kg |
| | | Copper | 7440-50-8 | 1 | mg/kg |
| | | Iron | 7439-89-6 | 10 | mg/kg |
| | | Lead | 7439-92-1 | 0.3 | mg/kg |
| | | Lithium | 1313-13-9 | 5 | mg/kg |
| | | Magnesium | 7439-95-4 | 50 | mg/kg |
| | | Manganese | 7439-96-5 | 1 | mg/kg |
| | | Molybdenum | 7439-98-7 | 1 | mg/kg |
| | | Nickel | 7440-02-0 | 1 | mg/kg |
| | | Niobium | 7440-03-1 | 12.5 | mg/kg |
| | | Palladium | 7440-05-3 | 0.5 | mg/kg |
| | | Phosphorus | 7723-14-0 | 50 | mg/kg |
| | | Platinum | 7440-06-4 | 0.5 | mg/kg |
| | | Potassium | 7440-09-7 | 50 | mg/kg |
| | | Selenium | 7782-49-2 | 0.5 | mg/kg |
| | | Silicon | 7440-21-3 | 50 | mg/kg |
| | | Silver | 7440-22-4 | 1 | mg/kg |
| | | Sodium | 7440-23-5 | 50 | mg/kg |
| | | Strontium | 7440-24-6 | 1 | mg/kg |
| | | Thallium | 7440-28-0 | 1 | mg/kg |
| | Tin | 7440-31-5 | 1 | mg/kg | |
| | Titanium | 7440-32-6 | 1 | mg/kg | |
| | Tungsten | 7440-33-7 | 2.5 | mg/kg | |
| | Uranium | 7440-61-1 | 1 | mg/kg | |
| Vanadium | 7440-62-2 | 1 | mg/kg | | |
| Zinc | 7440-66-6 | 2 | mg/kg | | |
| Zirconium | 14940-68-2 | 10 | mg/kg | | |
| | EPA 7196A | Chromium (VI) | 18540-29-9 | 10 | mg/kg |
| | EPA 7470/7471A | Mercury | 7439-97-6 | 0.03 | mg/kg |
| Radiochemicals | EPA 900.0 or EPA 9320 | Gross alpha | G_Alpha | 10.0 | pCi/g |
| | | Gross beta | G_Beta | 10.0 | pCi/g |
| | EPA 901.1 or HASL AM02 | Actinium-228 | 14331-83-0 | 0.8 | pCi/g |
| | | Bismuth-212 | 14913-49-6 | 1.2 | pCi/g |
| | | Bismuth-214 | 14733-03-0 | 0.4 | pCi/g |
| | | Cobalt-57 | 13981-50-5 | 0.1 | pCi/g |
| | | Cobalt-60 | 10198-40-0 | 0.1 | pCi/g |
| | | Lead-210 | 14255-04-0 | 1.5 | pCi/g |
| | | Lead-212 | 15092-94-1 | 0.2 | pCi/g |
| | | Lead-214 | 15067-28-4 | 0.3 | pCi/g |
| | | Potassium-40 | 13966-00-2 | 1.5 | pCi/g |
| | | Radium-223 | 15623-45-7 | 1.0 | pCi/g |
| | | Radium-224 | 13233-32-4 | 1.5 | pCi/g |
| | | Thallium-208 | 14913-50-9 | 0.2 | pCi/g |
| | Thorium-234 | 15065-10-8 | 0.2 | pCi/g | |
| | EPA 9315 | Radium-226 | 13982-63-3 | 1.0 | pCi/g |
| | EPA 9320 | Radium-228 | 15262-20-1 | 1.0 | pCi/g |
| | HASL 300 A-01R | Thorium-228 | 14274-82-9 | 1.0 | pCi/g |
| | | Thorium-230 | 14269-63-7 | 1.0 | pCi/g |
| | | Thorium-232 | 7440-29-1 | 1.0 | pCi/g |
| Uranium-233/234 | | 13966-29-5 | 1.0 | pCi/g | |
| Uranium 235/236 | | 15117-96-1 | 1.0 | pCi/g | |
| | | Uranium-238 | 7440-61-1 | 1.0 | pCi/g |

TABLE 3 (Continued)
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

| Parameter of Interest | Analytical Method | Compound List | CAS Number | Practical Quantitation Limit | |
|------------------------------------|-------------------------------------|---|------------|------------------------------|----------------|
| Radiochemicals (continued) | Quantitate from Parent Radionuclide | <i>Bismuth-210 (from Pb-210)</i> | 14331-79-4 | * | pCi/g |
| | | <i>Polonium-210 (from Pb-210)</i> | 13981-52-7 | * | pCi/g |
| | | <i>Polonium-212 (from Bi-212, adjusted for branching ratio)</i> | 13981-52-7 | * | pCi/g |
| | | <i>Polonium-214 (from Bi-214)</i> | 15735-67-8 | * | pCi/g |
| | | <i>Polonium-216 (from Pb-212)</i> | 15756-58-8 | * | pCi/g |
| | | <i>Polonium-218 (from Pb-214)</i> | 15422-74-9 | * | pCi/g |
| Ions | EPA 300.0 | <i>Protactinium-234 (metastable isotope; from U-238)</i> | 15100-28-4 | * | pCi/g |
| | | <i>Chloride</i> | 16887-00-6 | 5 | mg/kg |
| | | <i>Fluoride</i> | 16984-48-8 | 1 | mg/kg |
| | | <i>Nitrate (as N)</i> | 14797-55-8 | 0.25 | mg/kg |
| | | <i>Nitrite (as N)</i> | 14797-65-0 | 0.25 | mg/kg |
| Miscellaneous Soil Characteristics | Lloyd Kahn Method | <i>Total organic carbon (TOC)</i> | 7440-44-0 | 10 | mg/kg |
| | EPA 9045C | <i>pH</i> | NA | NA | pH units |
| | SM 2520B Modified | <i>Salinity</i> | NA | NA | salinity units |
| | EPA 9080 or 9081 | <i>Cation Exchange Capacity</i> | NA | NA | meq/100g |
| | ASTM D422 | <i>Soil Texture Class</i> | NA | NA | % of total |
| | ASTM D2216 | <i>Percent Moisture</i> | NA | NA | % |

Reporting Limits - Based on laboratory limits for primary laboratory (STL).

Laboratory limits are subject to matrix interferences and may not always be achieved in all samples.

* = Reporting limit for specific radionuclide to be set based on the performance of Cs-137 in the specific sample matrix

TABLE 4
SAMPLE-SIZE ESTIMATES FOR TWO METALS (MG/KG) IN BACKGROUND SURFACE AND SUBSURFACE SOIL
NUMBER OF SAMPLES NEEDED FOR ONE-SIDED TWO-SAMPLE T-TEST

| Analyte | Depth | Mean | SD | CV | D | Taken N | ¹ Needed N* | Shortfall N# | Confidence/ Power/MDRD | Performance Curve? |
|---------|---------|------|-----|-------|-------|------------|---------------------------|-----------------|---------------------------|-----------------------|
| Lead | Surface | 19.2 | 3.6 | 0.189 | 1.058 | 7 | 12 | 5 | 90%,90%,20% | Yes |
| Lead | Surface | 19.2 | 3.6 | 0.189 | 1.058 | 7 | 8 | 1 | 90%,80%,20% | |
| Lead | Surface | 19.2 | 3.6 | 0.189 | 1.587 | 7 | 6 | no | 90%,90%,30% | |
| Lead | Surface | 19.2 | 3.6 | 0.189 | 1.587 | 7 | 4 | no | 90%,80%,30% | |
| Lead | Sub | 12.0 | 5.2 | 0.439 | 0.456 | 7 | 64 | 57 | 90%,90%,20% | Yes |
| Lead | sub | 12.0 | 5.2 | 0.439 | 0.456 | 7 | 44 | 37 | 90%,80%,20% | |
| Lead | sub | 12.0 | 5.2 | 0.439 | 0.683 | 7 | 28 | 21 | 90%,90%,30% | |
| Lead | sub | 12.0 | 5.2 | 0.439 | 0.683 | 7 | 19 | 12 | 90%,80%,30% | |
| Arsenic | Surface | 3.4 | 0.6 | 0.180 | 1.111 | 15 | 11 | no | 90%,90%,20% | |
| Arsenic | Surface | 3.4 | 0.6 | 0.180 | 1.111 | 15 | 7 | no | 90%,80%,20% | |
| Arsenic | Surface | 3.4 | 0.6 | 0.180 | 1.667 | 15 | 5 | no | 90%,90%,30% | |
| Arsenic | Surface | 3.4 | 0.6 | 0.180 | 1.667 | 15 | 3 | no | 90%,80%,30% | |
| Arsenic | sub | 3.2 | 0.5 | 0.207 | 0.966 | 16 | 14 | no | 90%,90%,20% | |
| Arsenic | sub | 3.2 | 0.5 | 0.207 | 0.966 | 16 | 10 | no | 90%,80%,20% | |
| Arsenic | sub | 3.2 | 0.5 | 0.207 | 1.449 | 16 | 6 | no | 90%,90%,30% | |
| Arsenic | sub | 3.2 | 0.5 | 0.207 | 1.449 | 16 | 4 | no | 90%,80%,30% | |

¹N Needed to achieve either 90% confidence/80% power or 90% confidence/90% power at 20% MDRD OR 30% MDRD

Formula: $N^* = 2 * ((Z_a + Z_b/D)^2) + 0.25(Z_a^2)$, where MDRD = 20 percent (i.e., 0.2), CV = standard deviation/mean, power = 90 percent (that is, $Z_b = 1.282$), confidence = 80 percent (that is, $Z_a = 0.842$).

Formula (in Microsoft Excel) to calculate samples for 20% MDRD = $2 * (((0.842 + 1.282)/D)^2) + 0.25 * (0.842^2)$
 $n - 0.25(Z_a^2) = 2 * ((Z_a + Z_b/D)^2)$ (EPA, 2000)

D = MDRD/CV (that is, 0.20/CV for 20% MDRD or 0.30/CV for 30% MDRD)

N = total number of samples collected and analyzed for the element

N* = number of samples needed to achieve a 20% or 30% MDRD

N# is the deficient number of samples needed to achieve a 20% or 30% MDRD

Data for lead and arsenic from background soil samples collected by Environ for the City of Henderson (Environ, 2003)

See Figures 4 and 5 showing power curves for null hypothesis stating that site concentrations are greater than background.

Sub = Subsurface

APPENDIX B

Includes:

Background Soil Sampling Field Notes (Table B-1)
Soil Boring Logs

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

| Site Number | Boring ID | Sample Interval | Remarks |
|-------------|-----------|--------------------------------|---|
| 1 | A | 0-0.5, 4-6, 9-11* | No remarks |
| | B | 0-0.5, 4-6*, 9-11* | No remarks |
| | C | 0-0.5, 4-6, 9-11* | No remarks |
| 2 | A | 0-0.5, 4-6, 9-11* | No remarks |
| | B | 0-0.5, 4-6, 9-11* | No remarks |
| | C | 0-5, 4-6*, 9-11 | No remarks |
| 3 | A | 0-0.5, 3-7*, field split, 9-11 | Sample collected over 3-7 foot interval as volume of soil needed for a field spilt could not be obtained from the normal 2 foot sample interval. Soil collected from 3-5 feet was put in plastic bag and placed in a cooler to preserve sample until the collection of soil over the 5-7 foot interval was complete. All soil was combined in a stainless steel bowl prior to filling jars. |
| | B | 0-0.5, 4-6*, 9-11 | No remarks |
| | C | 0-0.5, 4-6, 9-11 | No remarks |
| 4 | A | 0-0.5, 4-5.5, 9-11 | Sampler used could hold three 6 inch sample sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of the project as specified in the workplan. 0-0.5 foot sample collected approximately 1 foot from exact boring location. Standard shovel used for surface sample collection, stainless steel trowel was not used. |
| | B | 0-0.5, 4-5.5, 9-10.5 | Sampler used could hold three 6 inch sample sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of the project. 0-0.5 foot sample collected approximately 1 foot from exact boring location. Standard shovel used for surface sample collection, stainless steel trowel was not used. |
| | C | 0-0.5, 4-5.5, 9-11* | Sampler used could hold three 6 inch sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of project. Standard shovel used for surface sample collection, stainless steel trowel was not used. |
| | C1 | 0-0.5 | No remarks. |

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

| Site Number | Boring ID | Sample Interval | Remarks |
|-------------|-----------|--------------------------------|--|
| 5 | A | 0-0.5**, 4-6** | Standard shovel used for surface sample collection, stainless steel trowel was not used. Refusal. |
| | B | 0-0.5** | No remarks; refusal. |
| | C | 0-0.5** | No remarks; refusal. |
| 5R | A | 0-0.5, 4-6, 9-11 | No remarks. |
| | B | 0-0.5, 4-6, 9-11 | No remarks. |
| | C | 0.0.5, 4-6, 9-11 | One 8 oz jar short on 9-11 foot sample as completely out of plastic jars. |
| 6 | A | 0-0.5, 4-6, 9-11 | No remarks. |
| | B | 0-0.5, 4-6, 9-11 | Difficulties at the 4-6 foot sample interval during sample retrieval. Pulled auger back up to beginning sample depth and attempted sample collection three times before enough sample volume was recovered. All soil recovered was combined in stainless steel bowl prior to filling jars. In addition, soil recovered from the first two sample attempts was put in a plastic bag and placed in a cooler in attempt to preserve the sample for analysis. Due to length of time involved in collecting this sample, analytical results may be compromised. |
| | C | 0-0.5, 4-6, 8-12, field split | Sample collected over 8-12 foot interval as volume of soil needed for a field spilt could not be obtained from the normal 2 foot sample interval. Soil collected from 8-10 feet was put in plastic bag and placed in a cooler to preserve sample until the collection of soil over the 10-12 foot interval was complete. All soil was combined in a stainless steel bowl prior to filling jars. |
| 7 | A | 0-0.5, 4-6, 9-11 | No remarks |
| | B | 0-0.5, 4-6*, 9-11 | No remarks |
| | C | 0.0.5, 4-6, 9-11 | No remarks |
| 8 | A | 0-0.5, 4-6, 9-11 | No remarks |
| | B | 0-0.5, 4-6, 9-11 | No remarks |
| | C | 0.5, 4-6, 9-11 | No remarks |
| 9 | A | 0-0.5, 4-6, 9-11 | No remarks |
| | B | 0-0.5, 4-6, 9-11 | No remarks |
| | C | 0-0.5, field split, 4-6*, 9-11 | Field split was collected at the 0-0.5 foot interval. |

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

| Site Number | Boring ID | Sample Interval | Remarks |
|-------------|-----------|---------------------------------------|---|
| 11 | A | 0-0.5, 4-6*, 9-11* | Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring from 6-11 feet. Sample depths and the amount of attempts needed to require enough sample were provided by the driller. |
| | B | 0-0.5, 4-6*, 9-11* | Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring. Sample depths and the amount of attempts needed to require enough sample were provided by the driller. |
| | C | 0-0.5, field split , 4-6, 9-11 | Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring from 0-9 feet. Sample depths and the amount of attempts needed to require enough sample were provided by the driller. Field split noted to be collected. |
| 12 | A | 0-0.5, 4-6, 9-11 | No remarks |
| | B | 0-0.5, field split 4-6, 9-11 | Field split noted to be collected but lab data is not present. Radionuclide laboratory duplicate performed on 0-0.5 the foot sample. Field split analyzed on the report for miscellaneous soil characteristics as provided by STI Burlington. No radionuclide or metals field split data. |
| | C | 0-0.5, 4-6, 9-11* | Laboratory duplicate for radionuclides performed on the 0-0.5 foot sample. |

* Pulled auger back up to beginning sample depth and attempted sample collection again over the required two foot interval as enough sample was not collected for the required analytical analysis during the first attempt.

**First attempt to drill at this location, however due to encountering bedrock the borings could not be completed. Second attempt to drill at this location was made on 6/17/05 and was successful.

EXPLORATION LOG BRC-BKG-1A

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N:36.022339 W:115.02693

EXPLORATION DATE: 6/16/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

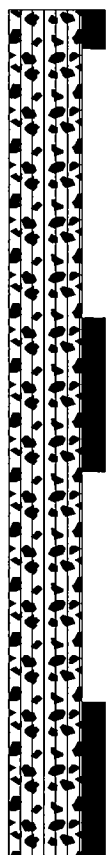
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---|--------------------------|------|---|----|----|-------------------------|----------------------|---------|---------------------------------|
| <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>0</p><p>2.5</p><p>5</p><p>7.5</p><p>10</p><p>12.5</p><p>15</p><p>17.5</p> </div>  </div> | | GM | <p>Pale brown, silty GRAVEL with sand, few cobbles, few boulders, dry and very dense.</p> <p>...alternating layers of sand and gravel</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-2B

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N:36.02267 W:115.02344

EXPLORATION DATE: 6/16/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SM | Light brown, silty SAND with gravel, dry, medium dense. ...dense ...very dense | | | | | | |
| | | | END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-3A

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N:36.02578 W:115.02200

EXPLORATION DATE: 6/16/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | GM | <p>Pale brown, silty GRAVEL with sand, few cobbles, few boulders, dry and dense.</p> <p>...dense</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-4A

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N:35.990318 W:114.989180

EXPLORATION DATE: 6/14/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|-------|---|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SP-SM | <p>Brown, poorly graded SAND with gravel, dry and loose.</p> <p>...dense</p> <p>...moist.</p> <p>...dark yellowish brown, very dense with trace of clay</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-6B

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N: 36.997757 W: 114.970978

EXPLORATION DATE: 6/15/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R. COOKE

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SM | Pale brown, silty SAND with gravel, trace cobbles, dry and medium dense. ... dense ...very dense ...moist | | | | | | |
| | | | END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-7B

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N: 35.99778 W: 114.96713

EXPLORATION DATE: 6/15/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R. COOKE

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SM | <p>Pale brown, silty SAND with gravel, few cobbles, trace boulders, dry and medium dense. ...dense</p> <p>...trace of clay</p> <p>...increased gravel percentage</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-8

PROJECT: BRC BACKGROUND SAMPLING
 BORING LOCATION: N: 36.007058 W: 114.995318
 EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
 ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20051926V1
 EXPLORATION DATE: 6/15/05
 EQUIPMENT: DIEDRICH D-50 TRACK RIG
 LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
 FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A
 DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SM | Brown, silty SAND with gravel, few cobbles and boulders, dry and loose. ...moist, trace of clay, dense ...very dense | | | | | | |
| | | | END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-9

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N: 36.00626 W: 114.99149

EXPLORATION DATE: 6/14/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: DIEDRICH D-50 TRACK RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|---|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SM | <p>Very pale brown, SAND with gravel, dry and loose.</p> <p>...medium dense, moist</p> <p>...very dense</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-11A

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N: 36.03130 W: 114.99354

EXPLORATION DATE: 6/17/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: TRACK D-50 RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/K. DEHN

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|-------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | SP-SM | <p>Pale brown, poorly graded SAND with silt and gravel, few cobbles, trace boulders, dry and loose.</p> <p>... decreasing gravel content</p> <p>...on a rock</p> <p>...drilled past rock</p> | | | | | | |
| | | | <p>END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED</p> | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-12A

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N: 36.01306 W: 114.93748

EXPLORATION DATE: 6/17/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: TRACK D-50 RIG

ELEVATION: EXISTING GROUND SURFACE

LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|---------------------|--------------------------|------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
| | | ML | Light brown, gravelly SILT with sand medium dense, dry. | | | | | | |
| | | SM | Light reddish brown, silty SAND with gravel, moist and dense. ...very dense | | | | | | |
| | | | END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG BRC-BKG-5R

PROJECT: BRC BACKGROUND SAMPLING

PROJECT NO.: 20051926V1

BORING LOCATION: N:35.99767 W:114.99899

EXPLORATION DATE: 6/17/05

EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS

EQUIPMENT: TRACK D-50 RIG

ELEVATION: EXISTING GROUND SURFACE


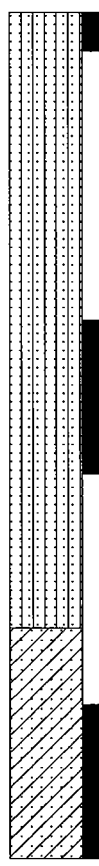
LOGGED BY: V. CLINE/K. DEHN

INITIAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

FINAL DEPTH TO WATER: NGE

DATE MEASURED: N/A

| ELEVATION/ DEPTH | SOIL & SAMPLE SYMBOLS | USCS | DESCRIPTION | PI | LL | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | % SWELL | POCKET PENETROMETER (tsf) |
|--|--|-------|--|----|----|-------------------------|----------------------|---------|---------------------------------|
|  |  | SW-SM | Brown, well graded SAND with silt and gravel, few cobbles, trace boulders, dry and loose. ...trace clay | | | | | | |
| | | SC | Reddish brown, clayey SAND with gravel, moist and very dense. | | | | | | |
| | | | END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED | | | | | | |

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

KEY TO SYMBOLS

Symbol Description

Strata symbols



Silty gravel



Silty sand



Poorly graded sand
with silt



Well graded sand with silt



Clayey sand



Silt

Soil Samplers



California sampler

Notes:

1. Exploratory borings were drilled on 6/17/05 using a 4-inch diameter continuous flight power auger.
2. No free water was encountered at the time of drilling or when re-checked the following day.
3. Boring locations were taped from existing features and elevations extrapolated from the final design schematic plan.
4. These logs are subject to the limitations, conclusions, and recommendations in this report.
5. Results of tests conducted on samples recovered are reported on the logs.

APPENDIX C

Includes on compact disk:

Soil Background Analytical Summary Data (Tables C-1 and C-2)

Validation Qualifier and Code Definitions (Table C-3)

Soil Background Geotechnical Data Summary (Table C-4)

Soil Background Analytical Database

Laboratory Analytical Data Packages

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|-------|
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Chloride | 1.6 B J | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Nitrate | 0.41 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Nitrite | 0.16 B | J | h, g | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Sulfate | 3 B | U | b | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | CEC | 11.8 | | | meq/100g | 16-Jun-05 | | |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | pH (solid) | 8.6 | J | h | none | 16-Jun-05 | | |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Actinium 227 ^d | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Actinium 228 | 2.01 | | | pCi/g | 16-Jun-05 | 0.75 | 0.37 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Bismuth 211 ^f | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Bismuth 212 | 0.61 U | | | pCi/g | 16-Jun-05 | 0.64 | 0.86 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Bismuth 214 | 0.9 | | | pCi/g | 16-Jun-05 | 0.27 | 0.21 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Cobalt 57 | -0.02 U | | | pCi/g | 16-Jun-05 | 0.034 | 0.056 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Cobalt 60 | -0.009 U | | | pCi/g | 16-Jun-05 | 0.057 | 0.11 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lead 210 | 0.8 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lead 211 ^g | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lead 212 | 1.69 | | | pCi/g | 16-Jun-05 | 0.3 | 0.22 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lead 214 | 0.97 | | | pCi/g | 16-Jun-05 | 0.23 | 0.17 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Polonium 210 ^h | 0.8 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Polonium 212 ⁱ | 0.39 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.55 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Polonium 214 ^j | 0.9 | | | pCi/g | 16-Jun-05 | 0.26 | 0.21 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Polonium 215 ^k | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Polonium 216 ^l | 1.69 | | | pCi/g | 16-Jun-05 | 0.3 | 0.22 |
| HDXGM1DD | Soil | BRC-BKG-01A-0-0.5 | Polonium 218 ^m | 1.58 | J | n | pCi/g | 16-Jun-05 | 0.21 | 0.177 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Potassium 40 | 24.5 | | | pCi/g | 16-Jun-05 | 3.7 | 1 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Protactinium 234 | 0.04 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.3 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Radium 223 ⁿ | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Radium 224 ^o | 1.69 | | | pCi/g | 16-Jun-05 | 0.3 | 0.22 |
| HDXGM1DD | Soil | BRC-BKG-01A-0-0.5 | Radium 226 | 1.58 | J | n | pCi/g | 16-Jun-05 | 0.21 | 0.177 |
| HDXGM1DE | Soil | BRC-BKG-01A-0-0.5 | Radium 228 | 2.05 | | | pCi/g | 16-Jun-05 | 0.24 | 0.527 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thallium 207 ^p | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thallium 208 | 0.5 | | | pCi/g | 16-Jun-05 | 0.16 | 0.11 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 227 | -0.19 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.77 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 228 | 2.09 | | | pCi/g | 16-Jun-05 | 0.46 | 0.23 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 230 | 1.25 | | | pCi/g | 16-Jun-05 | 0.32 | 0.08 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 231 | 0.011 U | | | pCi/g | 16-Jun-05 | 0.058 | 0.11 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 232 | 1.78 | | | pCi/g | 16-Jun-05 | 0.4 | 0.11 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thorium 234 | 2.02 | | | pCi/g | 16-Jun-05 | 0.57 | 0.98 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Uranium 233/234 | 0.63 J | U | b | pCi/g | 16-Jun-05 | 0.2 | 0.12 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Uranium 235 | 0.011 U | | | pCi/g | 16-Jun-05 | 0.058 | 0.11 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Uranium 238 | 0.77 J | J | k | pCi/g | 16-Jun-05 | 0.22 | 0.08 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Moisture (%) | 1.5 | | | percent | 16-Jun-05 | | |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Aluminum | 13900 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Antimony | 0.5 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Arsenic | 5.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Barium | 190 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Beryllium | 0.78 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Boron | 7.5 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Calcium | 20400 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Chromium | 13.9 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Cobalt | 9.8 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Copper | 23.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Iron | 15100 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lead | 11.5 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Lithium | 18 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Magnesium | 14200 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Manganese | 511 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Mercury | 0.023 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Molybdenum | 0.9 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Nickel | 20.9 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Niobium | 2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Palladium | 0.31 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Phosphorus | 1440 N | | | mg/kg | 16-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Potassium | 3590 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Selenium | 0.29 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Silicon | 3720 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Sodium | 159 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Strontium | 145 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Thallium | 0.59 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Tin | 0.78 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Titanium | 681 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Tungsten | 1.4 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Uranium | 1 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Vanadium | 44.9 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Zinc | 48 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132001 | Soil | BRC-BKG-01A-0-0.5 | Zirconium | 121 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Chloride | 71.5 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Fluoride | 1.2 | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Nitrate | 6.7 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Sulfate | 34.1 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | CEC | 10.9 | | | meq/100g | 16-Jun-05 | | |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | pH (solid) | 8.9 | J | h | none | 16-Jun-05 | | |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Actinium 227 ^d | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Actinium 228 | 2.19 | | | pCi/g | 16-Jun-05 | 0.73 | 0.36 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Bismuth 210 ^e | 1.04 U | | | pCi/g | 16-Jun-05 | 0.99 | 1.9 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Bismuth 211 ^f | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Bismuth 212 | 0.87 | | | pCi/g | 16-Jun-05 | 0.58 | 0.8 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Bismuth 214 | 1.22 | | | pCi/g | 16-Jun-05 | 0.25 | 0.41 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Cobalt 57 | -0.022 U | | | pCi/g | 16-Jun-05 | 0.028 | 0.045 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Cobalt 60 | 0.05 U | | | pCi/g | 16-Jun-05 | 0.055 | 0.12 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lead 210 | 1.04 U | | | pCi/g | 16-Jun-05 | 0.996 | 1.9 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lead 211 ^g | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lead 212 | 1.58 | | | pCi/g | 16-Jun-05 | 0.26 | 0.16 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lead 214 | 1.13 | | | pCi/g | 16-Jun-05 | 0.24 | 0.16 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Polonium 210 ^h | 1.04 U | | | pCi/g | 16-Jun-05 | 0.99 | 1.9 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Polonium 212 ⁱ | 0.56 | | | pCi/g | 16-Jun-05 | 0.37 | 0.51 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Polonium 214 ^j | 1.22 | | | pCi/g | 16-Jun-05 | 0.24 | 0.16 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Polonium 215 ^k | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Polonium 216 ^l | 1.58 | | | pCi/g | 16-Jun-05 | 0.26 | 0.16 |
| HDXGX1C4 | Soil | BRC-BKG-01A-4-6 | Polonium 218 ^m | 1.32 | | | pCi/g | 16-Jun-05 | 0.17 | 0.138 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Potassium 40 | 25.4 | | | pCi/g | 16-Jun-05 | 3.6 | 5.5 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Protactinium 234 | -0.17 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.24 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Radium 223 ⁿ | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Radium 224 ^o | 1.58 | | | pCi/g | 16-Jun-05 | 0.26 | 0.16 |
| HDXGX1C4 | Soil | BRC-BKG-01A-4-6 | Radium 226 | 1.32 | | | pCi/g | 16-Jun-05 | 0.17 | 0.138 |
| HDXGX1C5 | Soil | BRC-BKG-01A-4-6 | Radium 228 | 2.21 | | | pCi/g | 16-Jun-05 | 0.25 | 0.585 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thallium 207 ^p | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thallium 208 | 0.58 | | | pCi/g | 16-Jun-05 | 0.14 | 0.09 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 227 | -0.29 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.72 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 228 | 1.83 | | | pCi/g | 16-Jun-05 | 0.34 | 0.14 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 230 | 1.28 | | | pCi/g | 16-Jun-05 | 0.27 | 0.1 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 231 | 0.12 J | U | b | pCi/g | 16-Jun-05 | 0.1 | 0.05 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 232 | 1.43 | | | pCi/g | 16-Jun-05 | 0.28 | 0.05 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thorium 234 | 2.16 | | | pCi/g | 16-Jun-05 | 0.69 | 1.1 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Uranium 233/234 | 2.44 | | | pCi/g | 16-Jun-05 | 0.45 | 0.08 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Uranium 235 | 0.12 J | J | k | pCi/g | 16-Jun-05 | 0.1 | 0.05 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Uranium 238 | 1.43 | | | pCi/g | 16-Jun-05 | 0.32 | 0.06 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Moisture (%) | 3.1 | | | percent | 16-Jun-05 | | |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Aluminum | 5090 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Arsenic | 3.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Barium | 111 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Beryllium | 0.38 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Boron | 3.8 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Calcium | 27200 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Chromium | 4.5 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Cobalt | 4.8 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Copper | 12 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Iron | 6640 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lead | 4.9 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Lithium | 11.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Magnesium | 5470 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Manganese | 183 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Mercury | 0.01 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Molybdenum | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Nickel | 9.6 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Palladium | 0.42 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Phosphorus | 938 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Potassium | 2020 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Silicon | 640 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Sodium | 449 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Strontium | 209 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Thallium | 0.32 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Tin | 0.32 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Titanium | 376 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Uranium | 0.86 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Vanadium | 25.5 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Zinc | 20.7 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132002 | Soil | BRC-BKG-01A-4-6 | Zirconium | 105 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Chloride | 426 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Fluoride | 0.72 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Nitrate | 3.8 | J | h | mg/kg | 16-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Sulfate | 1430 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | CEC | 9.5 | | | meq/100g | 16-Jun-05 | | |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | pH (solid) | 8.3 | J | h | none | 16-Jun-05 | | |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Actinium 227 ^d | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Actinium 228 | 1.74 | | | pCi/g | 16-Jun-05 | 0.66 | 0.39 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Bismuth 211 ^f | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Bismuth 212 | 0.74 U | | | pCi/g | 16-Jun-05 | 0.57 | 0.86 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Bismuth 214 | 1.03 | | | pCi/g | 16-Jun-05 | 0.26 | 0.19 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Cobalt 57 | 0.021 U | | | pCi/g | 16-Jun-05 | 0.034 | 0.061 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Cobalt 60 | 0.037 U | | | pCi/g | 16-Jun-05 | 0.058 | 0.13 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lead 210 | 0.7 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lead 211 ^g | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lead 212 | 1.58 | | | pCi/g | 16-Jun-05 | 0.28 | 0.19 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lead 214 | 1.25 | | | pCi/g | 16-Jun-05 | 0.26 | 0.18 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Polonium 212 ⁱ | 0.47 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.55 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Polonium 214 ^j | 1.03 | | | pCi/g | 16-Jun-05 | 0.26 | 0.19 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Polonium 215 ^k | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Polonium 216 ^l | 1.58 | | | pCi/g | 16-Jun-05 | 0.28 | 0.19 |
| HDXG11C4 | Soil | BRC-BKG-01A-9-11 | Polonium 218 ^m | 1.5 | | | pCi/g | 16-Jun-05 | 0.18 | 0.173 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Potassium 40 | 24.7 | | | pCi/g | 16-Jun-05 | 3.7 | 0.5 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Protactinium 234 | -0.03 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.29 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Radium 223 ⁿ | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Radium 224 ^o | 1.58 | | | pCi/g | 16-Jun-05 | 0.28 | 0.19 |
| HDXG11C4 | Soil | BRC-BKG-01A-9-11 | Radium 226 | 1.5 | | | pCi/g | 16-Jun-05 | 0.18 | 0.173 |
| HDXG11C5 | Soil | BRC-BKG-01A-9-11 | Radium 228 | 1.67 J | J | k | pCi/g | 16-Jun-05 | 0.21 | 0.533 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thallium 207 ^p | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thallium 208 | 0.42 | | | pCi/g | 16-Jun-05 | 0.15 | 0.1 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 227 | -0.41 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 228 | 1.5 | | | pCi/g | 16-Jun-05 | 0.3 | 0.13 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 230 | 1.55 | | | pCi/g | 16-Jun-05 | 0.3 | 0.06 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 231 | 0.043 J | U | b | pCi/g | 16-Jun-05 | 0.058 | 0.039 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 232 | 1.46 | | | pCi/g | 16-Jun-05 | 0.29 | 0.05 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thorium 234 | 1.35 | | | pCi/g | 16-Jun-05 | 0.73 | 1.3 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Uranium 233/234 | 1.73 | | | pCi/g | 16-Jun-05 | 0.33 | 0.08 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Uranium 235 | 0.043 J | J | k | pCi/g | 16-Jun-05 | 0.058 | 0.039 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Uranium 238 | 1.38 | | | pCi/g | 16-Jun-05 | 0.29 | 0.07 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Moisture (%) | 2.1 | | | percent | 16-Jun-05 | | |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Aluminum | 5570 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Arsenic | 5.1 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Barium | 147 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Beryllium | 0.37 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Boron | 7.1 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Calcium | 47300 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Chromium | 5.4 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Cobalt | 6.7 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Copper | 17.9 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Iron | 6870 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lead | 4.5 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Lithium | 14 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Magnesium | 8910 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Manganese | 339 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Mercury | 0.0092 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Molybdenum | 1.9 | | | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Nickel | 11.3 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Palladium | 0.8 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Phosphorus | 1120 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Potassium | 2250 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Silicon | 1300 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Sodium | 797 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Strontium | 488 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Thallium | 0.44 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Tin | 0.41 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Titanium | 490 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Tungsten | 1.8 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Uranium | 1.3 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Vanadium | 30.5 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Zinc | 19.7 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132003 | Soil | BRC-BKG-01A-9-11 | Zirconium | 106 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Chloride | 4.1 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Fluoride | 0.36 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Nitrate | U | UJ | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Sulfate | 10.5 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | CEC | 11.9 | | | meq/100g | 16-Jun-05 | | |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | pH (solid) | 8.6 | J | h | none | 16-Jun-05 | | |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Actinium 227 ^d | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Actinium 228 | 2.53 | | | pCi/g | 16-Jun-05 | 0.83 | 0.44 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Bismuth 210 ^e | 1.6 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Bismuth 211 ^f | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Bismuth 212 | 1.05 U | | | pCi/g | 16-Jun-05 | 0.54 | 1.1 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Bismuth 214 | 1.21 | | | pCi/g | 16-Jun-05 | 0.26 | 0.18 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Cobalt 57 | 0.009 U | | | pCi/g | 16-Jun-05 | 0.03 | 0.052 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Cobalt 60 | 0.024 U | | | pCi/g | 16-Jun-05 | 0.061 | 0.12 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lead 210 | 1.6 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lead 211 ^g | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lead 212 | 1.93 | | | pCi/g | 16-Jun-05 | 0.28 | 0.15 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lead 214 | 1.05 | | | pCi/g | 16-Jun-05 | 0.24 | 0.16 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Polonium 210 ^h | 1.6 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.6 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Polonium 212 ⁱ | 0.67 U | | | pCi/g | 16-Jun-05 | 0.35 | 0.7 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Polonium 214 ^j | 1.21 | | | pCi/g | 16-Jun-05 | 0.26 | 0.18 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Polonium 215 ^k | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Polonium 216 ^l | 1.93 | | | pCi/g | 16-Jun-05 | 0.28 | 0.15 |
| HDXG71DF | Soil | BRC-BKG-01B-0-0.5 | Polonium 218 ^m | 0.968 J | J | k | pCi/g | 16-Jun-05 | 0.12 | 0.11 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Potassium 40 | 23.3 | | | pCi/g | 16-Jun-05 | 3.8 | 1.1 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Protactinium 234 | -0.09 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.28 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Radium 223 ⁿ | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Radium 224 ^o | 1.93 | | | pCi/g | 16-Jun-05 | 0.28 | 0.15 |
| HDXG71DF | Soil | BRC-BKG-01B-0-0.5 | Radium 226 | 0.968 J | J | k | pCi/g | 16-Jun-05 | 0.12 | 0.11 |
| HDXG71DG | Soil | BRC-BKG-01B-0-0.5 | Radium 228 | 1.28 J | J | k | pCi/g | 16-Jun-05 | 0.19 | 0.548 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thallium 207 ^p | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thallium 208 | 0.66 | | | pCi/g | 16-Jun-05 | 0.16 | 0.1 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 227 | 0.1 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.85 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 228 | 1.67 | | | pCi/g | 16-Jun-05 | 0.33 | 0.14 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 230 | 1.42 | | | pCi/g | 16-Jun-05 | 0.29 | 0.07 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 231 | 0.042 J | U | b | pCi/g | 16-Jun-05 | 0.056 | 0.037 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 232 | 1.94 | | | pCi/g | 16-Jun-05 | 0.35 | 0.07 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thorium 234 | 1.64 | | | pCi/g | 16-Jun-05 | 0.55 | 1 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Uranium 233/234 | 0.72 J | U | b | pCi/g | 16-Jun-05 | 0.19 | 0.05 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Uranium 235 | 0.042 J | J | k | pCi/g | 16-Jun-05 | 0.056 | 0.037 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Uranium 238 | 0.78 J | J | k | pCi/g | 16-Jun-05 | 0.2 | 0.05 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Moisture (%) | 0.66 | | | percent | 16-Jun-05 | | |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Aluminum | 11400 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Antimony | 0.46 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Arsenic | 5.3 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Barium | 181 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Beryllium | 0.73 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Boron | 6 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Calcium | 24600 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Chromium | 13.5 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Cobalt | 8.2 | | | mg/kg | 16-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Copper | 18.2 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Iron | 14400 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lead | 11.8 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Lithium | 17.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Magnesium | 12700 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Manganese | 409 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Mercury | 0.033 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Molybdenum | 0.75 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Nickel | 17.5 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Palladium | 0.23 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Phosphorus | 1250 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Potassium | 3250 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Selenium | 0.27 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Silicon | 2790 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Sodium | 146 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Strontium | 118 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Thallium | 0.6 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Tin | 0.66 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Titanium | 571 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Tungsten | 0.97 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Uranium | 0.85 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Vanadium | 34.1 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Zinc | 48.5 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132004 | Soil | BRC-BKG-01B-0-0.5 | Zirconium | 112 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Chloride | 215 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Fluoride | 0.6 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Nitrate | 2.8 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Sulfate | 42.8 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | CEC | 9.8 | | | meq/100g | 16-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | pH (solid) | 8.6 | J | h | none | 16-Jun-05 | | |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Actinium 227 ^d | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Actinium 228 | 1.96 | | | pCi/g | 16-Jun-05 | 0.72 | 0.46 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Bismuth 210 ^e | 1.2 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.5 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Bismuth 211 ^f | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Bismuth 212 | 0.82 U | | | pCi/g | 16-Jun-05 | 0.55 | 1.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Bismuth 214 | 1.14 | | | pCi/g | 16-Jun-05 | 0.26 | 0.2 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Cobalt 57 | 0.022 U | | | pCi/g | 16-Jun-05 | 0.034 | 0.062 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Cobalt 60 | -0.033 U | | | pCi/g | 16-Jun-05 | 0.06 | 0.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lead 210 | 1.2 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.5 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lead 211 ^g | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lead 212 | 1.71 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lead 214 | 1.03 | | | pCi/g | 16-Jun-05 | 0.24 | 0.18 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Polonium 210 ^h | 1.2 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.5 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Polonium 212 ⁱ | 0.53 U | | | pCi/g | 16-Jun-05 | 0.35 | 0.71 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Polonium 214 ^j | 1.14 | | | pCi/g | 16-Jun-05 | 0.26 | 0.2 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Polonium 215 ^k | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Polonium 216 ^l | 1.71 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXG81C4 | Soil | BRC-BKG-01B-4-6 | Polonium 218 ^m | 1.15 | J | n | pCi/g | 16-Jun-05 | 0.15 | 0.154 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Potassium 40 | 30.5 | | | pCi/g | 16-Jun-05 | 4.3 | 1.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Protactinium 234 | 0.006 U | | | pCi/g | 16-Jun-05 | 0.18 | 0.31 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Radium 223 ⁿ | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Radium 224 ^o | 1.71 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXG81C4 | Soil | BRC-BKG-01B-4-6 | Radium 226 | 1.15 | J | n | pCi/g | 16-Jun-05 | 0.15 | 0.154 |
| HDXG81C5 | Soil | BRC-BKG-01B-4-6 | Radium 228 | 1.83 J | J | k | pCi/g | 16-Jun-05 | 0.23 | 0.583 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thallium 207 ^p | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thallium 208 | 0.64 | | | pCi/g | 16-Jun-05 | 0.15 | 0.11 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 227 | -0.003 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 228 | 1.91 | | | pCi/g | 16-Jun-05 | 0.35 | 0.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 230 | 1.2 | | | pCi/g | 16-Jun-05 | 0.26 | 0.05 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 231 | 0.04 U | | | pCi/g | 16-Jun-05 | 0.068 | 0.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 232 | 1.63 | | | pCi/g | 16-Jun-05 | 0.32 | 0.07 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thorium 234 | 2 | | | pCi/g | 16-Jun-05 | 1 | 1.3 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Uranium 233/234 | 1.73 | | | pCi/g | 16-Jun-05 | 0.34 | 0.11 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Uranium 235 | 0.04 U | | | pCi/g | 16-Jun-05 | 0.068 | 0.1 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Uranium 238 | 1.56 | | | pCi/g | 16-Jun-05 | 0.31 | 0.08 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Moisture (%) | 2.8 | | | percent | 16-Jun-05 | | |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Aluminum | 6670 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Antimony | 0.14 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Arsenic | 4.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Barium | 187 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Beryllium | 0.48 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Boron | 5.9 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Calcium | 29600 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Chromium | 5.9 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Cobalt | 6.2 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Copper | 14.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Iron | 8260 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lead | 6.2 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Lithium | 12.7 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Magnesium | 6370 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Manganese | 270 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Mercury | 0.015 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Molybdenum | 0.64 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Nickel | 11.4 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Palladium | 0.55 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Phosphorus | 1020 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Potassium | 2370 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Silicon | 846 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Sodium | 745 | | | mg/kg | 16-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Strontium | 258 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Thallium | 0.29 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Tin | 0.45 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Titanium | 570 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Tungsten | 1.3 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Uranium | 1.1 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Vanadium | 33.5 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Zinc | 25.4 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132005 | Soil | BRC-BKG-01B-4-6 | Zirconium | 117 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Chloride | 34.1 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Nitrate | 0.58 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Sulfate | 208 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | CEC | 10.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | pH (solid) | 8 | J | h | none | 17-Jun-05 | | |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Actinium 227 ^d | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Actinium 228 | 2.05 | | | pCi/g | 17-Jun-05 | 0.71 | 0.38 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Bismuth 211 ^f | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Bismuth 212 | 1.22 | | | pCi/g | 17-Jun-05 | 0.57 | 0.81 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Bismuth 214 | 1.32 | | | pCi/g | 17-Jun-05 | 0.29 | 0.47 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Cobalt 57 | 0.027 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.056 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Cobalt 60 | 0.028 U | | | pCi/g | 17-Jun-05 | 0.064 | 0.13 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lead 210 | 0.5 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lead 211 ^g | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lead 212 | 1.88 | | | pCi/g | 17-Jun-05 | 0.28 | 0.14 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lead 214 | 1.68 | | | pCi/g | 17-Jun-05 | 0.3 | 0.13 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Polonium 210 ^h | 0.5 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Polonium 212 ⁱ | 0.78 | | | pCi/g | 17-Jun-05 | 0.36 | 0.52 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Polonium 214 ^j | 1.32 | | | pCi/g | 17-Jun-05 | 0.29 | 0.19 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Polonium 215 ^k | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Polonium 216 ^l | 1.88 | | | pCi/g | 17-Jun-05 | 0.28 | 0.14 |
| HD3CJ1C4 | Soil | BRC-BKG-01B-9-11 | Polonium 218 ^m | 2.1 | J | n | pCi/g | 17-Jun-05 | 0.26 | 0.227 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Potassium 40 | 25.8 | | | pCi/g | 17-Jun-05 | 3.8 | 1.1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Protactinium 234 | 0.13 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.27 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Radium 223 ⁿ | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Radium 224 ^o | 1.88 | | | pCi/g | 17-Jun-05 | 0.28 | 0.14 |
| HD3CJ1C4 | Soil | BRC-BKG-01B-9-11 | Radium 226 | 2.1 | J | n | pCi/g | 17-Jun-05 | 0.26 | 0.227 |
| HD3CJ1C5 | Soil | BRC-BKG-01B-9-11 | Radium 228 | 2.19 | R | e | pCi/g | 17-Jun-05 | 0.25 | 0.511 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thallium 207 ^p | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thallium 208 | 0.68 | | | pCi/g | 17-Jun-05 | 0.15 | 0.09 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 227 | -0.36 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.78 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 228 | 1.38 | | | pCi/g | 17-Jun-05 | 0.28 | 0.09 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 230 | 1.65 | | | pCi/g | 17-Jun-05 | 0.3 | 0.05 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 231 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.073 | 0.092 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 232 | 1.52 | | | pCi/g | 17-Jun-05 | 0.29 | 0.06 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thorium 234 | 1.79 | | | pCi/g | 17-Jun-05 | 0.56 | 1 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Uranium 233/234 | 1.95 | | | pCi/g | 17-Jun-05 | 0.36 | 0.07 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Uranium 235 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.073 | 0.092 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Uranium 238 | 1.53 | | | pCi/g | 17-Jun-05 | 0.31 | 0.07 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Moisture (%) | 2.2 | | | percent | 17-Jun-05 | | |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Aluminum | 3740 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Antimony | 0.25 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Arsenic | 4.6 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Barium | 82.5 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Beryllium | 0.46 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Boron | 4.4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Calcium | 40400 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Chromium | 2.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Cobalt | 3.7 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Copper | 10.2 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Iron | 5410 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lead | 3 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Lithium | 13.7 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Magnesium | 5960 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Manganese | 157 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Molybdenum | 0.33 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Nickel | 7.9 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Palladium | 0.7 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Phosphorus | 1030 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Potassium | 1160 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Silicon | 876 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Sodium | 570 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Strontium | 356 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Thallium | 0.21 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Tin | 0.29 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Titanium | 262 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Tungsten | 0.67 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Uranium | 0.74 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Vanadium | 20.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Zinc | 15.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233007 | Soil | BRC-BKG-01B-9-11 | Zirconium | 91.9 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Chloride | 1.2 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Sulfate | 1.7 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | CEC | 6.6 | | | meq/100g | 17-Jun-05 | | |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Actinium 227 ^d | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|-------|-------------|------------------------|-------|
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Actinium 228 | 2.2 | | | pCi/g | 17-Jun-05 | 0.8 | 0.57 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Bismuth 210 ^e | 0.9 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Bismuth 211 ^f | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Bismuth 212 | 0.81 | | | pCi/g | 17-Jun-05 | 0.64 | 0.76 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Bismuth 214 | 1.2 | | | pCi/g | 17-Jun-05 | 0.26 | 0.44 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Cobalt 57 | 0.007 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.054 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Cobalt 60 | -0.012 U | | | pCi/g | 17-Jun-05 | 0.062 | 0.11 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lead 210 | 0.9 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lead 211 ^g | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lead 212 | 1.74 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lead 214 | 1.19 | | | pCi/g | 17-Jun-05 | 0.25 | 0.17 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Polonium 210 ^h | 0.9 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Polonium 212 ⁱ | 0.52 | | | pCi/g | 17-Jun-05 | 0.41 | 0.49 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Polonium 214 ^j | 1.2 | | | pCi/g | 17-Jun-05 | 0.25 | 0.18 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Polonium 215 ^k | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Polonium 216 ^l | 1.74 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| HD3CQ1C4 | Soil | BRC-BKG-01C-0-0.5 | Polonium 218 ^m | 0.855 J | J | k | pCi/g | 17-Jun-05 | 0.14 | 0.279 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Potassium 40 | 20.9 | | | pCi/g | 17-Jun-05 | 3.6 | 0.8 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Protactinium 234 | -0.11 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.28 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Radium 223 ⁿ | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Radium 224 ^o | 1.74 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| HD3CQ1C4 | Soil | BRC-BKG-01C-0-0.5 | Radium 226 | 0.855 J | J | k | pCi/g | 17-Jun-05 | 0.14 | 0.279 |
| HD3CQ1C5 | Soil | BRC-BKG-01C-0-0.5 | Radium 228 | 1.86 J | R | k, e | pCi/g | 17-Jun-05 | 0.24 | 0.574 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thallium 207 ^p | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thallium 208 | 0.7 | | | pCi/g | 17-Jun-05 | 0.16 | 0.11 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 227 | -0.02 U | | | pCi/g | 17-Jun-05 | 0.48 | 0.84 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 228 | 2.28 | | | pCi/g | 17-Jun-05 | 0.44 | 0.29 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 230 | 1.24 | | | pCi/g | 17-Jun-05 | 0.27 | 0.11 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 231 | 0.064 U | | | pCi/g | 17-Jun-05 | 0.086 | 0.11 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 232 | 2.23 | | | pCi/g | 17-Jun-05 | 0.38 | 0.06 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thorium 234 | 0.72 U | | | pCi/g | 17-Jun-05 | 0.69 | 1.2 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Uranium 233/234 | 0.82 J | U | b | pCi/g | 17-Jun-05 | 0.25 | 0.14 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Uranium 235 | 0.064 U | | | pCi/g | 17-Jun-05 | 0.086 | 0.11 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Uranium 238 | 0.88 J | J | k | pCi/g | 17-Jun-05 | 0.26 | 0.09 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Moisture (%) | 1.3 | | | percent | 17-Jun-05 | | |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Aluminum | 10300 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Antimony | 0.38 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Arsenic | 6.9 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Barium | 162 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Beryllium | 0.85 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Boron | 8.2 | J+ | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Calcium | 42000 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Chromium | 11.6 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Cobalt | 6.8 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Copper | 16.7 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Iron | 13300 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lead | 12.2 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Lithium | 18.2 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Magnesium | 14000 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Manganese | 376 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Mercury | 0.01 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Molybdenum | 0.72 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Nickel | 15 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Palladium | 0.32 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Phosphorus | 1280 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Potassium | 3150 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Selenium | 0.32 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Silicon | 1240 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Sodium | 140 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Strontium | 147 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Thallium | 0.52 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Tin | 0.56 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Titanium | 472 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Tungsten | 1.6 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Uranium | 0.93 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Vanadium | 29.6 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Zinc | 42.7 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233009 | Soil | BRC-BKG-01C-0-0.5 | Zirconium | 103 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Chloride | 17.1 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Nitrate | 0.63 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Sulfate | 10.7 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | CEC | 10.9 | | | meq/100g | 17-Jun-05 | | |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | pH (solid) | 8.6 | J | h | none | 17-Jun-05 | | |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Actinium 227 ^d | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Actinium 228 | 2.66 | | | pCi/g | 17-Jun-05 | 0.85 | 0.33 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Bismuth 210 ^e | 1.6 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.7 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Bismuth 211 ^f | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Bismuth 212 | 1.6 | | | pCi/g | 17-Jun-05 | 0.7 | 0.8 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Bismuth 214 | 1.2 | | | pCi/g | 17-Jun-05 | 0.27 | 0.18 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Cobalt 57 | -0.003 U | | | pCi/g | 17-Jun-05 | 0.034 | 0.058 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Cobalt 60 | -0.001 U | | | pCi/g | 17-Jun-05 | 0.066 | 0.13 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lead 210 | 1.6 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.7 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lead 211 ^g | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lead 212 | 1.65 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lead 214 | 1.22 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Polonium 210 ^h | 1.6 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.7 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Polonium 212 ⁱ | 1.02 | | | pCi/g | 17-Jun-05 | 0.45 | 0.51 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Polonium 214 ^j | 1.2 | | | pCi/g | 17-Jun-05 | 0.27 | 0.18 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Polonium 215 ^k | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Polonium 216 ^l | 1.65 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| HD3CL1C4 | Soil | BRC-BKG-01C-4-6 | Polonium 218 ^m | 1.54 | | | pCi/g | 17-Jun-05 | 0.2 | 0.16 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Potassium 40 | 27.9 | | | pCi/g | 17-Jun-05 | 4.1 | 0.6 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Protactinium 234 | -0.17 U | | | pCi/g | 17-Jun-05 | 0.19 | 0.3 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Radium 223 ⁿ | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Radium 224 ^o | 1.65 | | | pCi/g | 17-Jun-05 | 0.26 | 0.14 |
| HD3CL1C4 | Soil | BRC-BKG-01C-4-6 | Radium 226 | 1.54 | | | pCi/g | 17-Jun-05 | 0.2 | 0.16 |
| HD3CL1C5 | Soil | BRC-BKG-01C-4-6 | Radium 228 | 2.19 | R | e | pCi/g | 17-Jun-05 | 0.28 | 0.702 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thallium 207 ^p | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thallium 208 | 0.6 | | | pCi/g | 17-Jun-05 | 0.16 | 0.11 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 227 | -0.17 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.87 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 228 | 1.95 | | | pCi/g | 17-Jun-05 | 0.39 | 0.26 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 230 | 1.09 | | | pCi/g | 17-Jun-05 | 0.25 | 0.1 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 231 | 0.058 U | | | pCi/g | 17-Jun-05 | 0.079 | 0.11 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 232 | 1.51 | | | pCi/g | 17-Jun-05 | 0.3 | 0.09 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thorium 234 | 1.19 U | | | pCi/g | 17-Jun-05 | 0.77 | 1.3 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Uranium 233/234 | 1.59 | | | pCi/g | 17-Jun-05 | 0.33 | 0.12 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Uranium 235 | 0.058 U | | | pCi/g | 17-Jun-05 | 0.079 | 0.11 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Uranium 238 | 1.32 | | | pCi/g | 17-Jun-05 | 0.29 | 0.08 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Moisture (%) | 3.1 | | | percent | 17-Jun-05 | | |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Aluminum | 5230 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Antimony | 0.13 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Arsenic | 4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Barium | 114 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Beryllium | 0.54 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Boron | 4.1 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Calcium | 25900 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Chromium | 3.1 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Cobalt | 5.4 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Copper | 11.9 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Iron | 6350 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lead | 5 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Lithium | 10 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Magnesium | 5070 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Manganese | 256 N | | | mg/kg | 17-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Molybdenum | 0.35 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Nickel | 9.2 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Palladium | 0.51 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Phosphorus | 1330 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Potassium | 1720 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Silicon | 806 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Sodium | 503 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Strontium | 219 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Thallium | 0.25 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Tin | 0.25 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Titanium | 311 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Tungsten | 0.66 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Uranium | 0.81 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Vanadium | 23.9 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Zinc | 17.6 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233008 | Soil | BRC-BKG-01C-4-6 | Zirconium | 120 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Chloride | 24.7 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Nitrate | 0.87 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Sulfate | 124 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | CEC | 12.5 | | | meq/100g | 17-Jun-05 | | |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | pH (solid) | 8 | J | h | none | 17-Jun-05 | | |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Actinium 227 ^d | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Actinium 228 | 1.72 | | | pCi/g | 17-Jun-05 | 0.63 | 0.42 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Bismuth 211 ^f | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|-------|
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Bismuth 212 | 1.22 U | | | pCi/g | 17-Jun-05 | 0.59 | 1.2 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Bismuth 214 | 1.49 | | | pCi/g | 17-Jun-05 | 0.3 | 0.51 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Cobalt 57 | 0.011 U | | | pCi/g | 17-Jun-05 | 0.035 | 0.063 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Cobalt 60 | -0.003 U | | | pCi/g | 17-Jun-05 | 0.069 | 0.13 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lead 210 | 0.7 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lead 211 ^g | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lead 212 | 1.71 | | | pCi/g | 17-Jun-05 | 0.26 | 0.15 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lead 214 | 1.62 | | | pCi/g | 17-Jun-05 | 0.3 | 0.18 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Polonium 212 ⁱ | 0.78 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.79 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Polonium 214 ^j | 1.49 | | | pCi/g | 17-Jun-05 | 0.3 | 0.18 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Polonium 215 ^k | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Polonium 216 ^l | 1.71 | | | pCi/g | 17-Jun-05 | 0.26 | 0.15 |
| HD3CR1C4 | Soil | BRC-BKG-01C-9-11 | Polonium 218 ^m | 2.36 | | | pCi/g | 17-Jun-05 | 0.3 | 0.254 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Potassium 40 | 23.4 | | | pCi/g | 17-Jun-05 | 3.8 | 1.2 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Protactinium 234 | -0.04 U | | | pCi/g | 17-Jun-05 | 0.18 | 0.3 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Radium 223 ⁿ | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Radium 224 ^o | 1.71 | | | pCi/g | 17-Jun-05 | 0.26 | 0.15 |
| HD3CR1C4 | Soil | BRC-BKG-01C-9-11 | Radium 226 | 2.36 | | | pCi/g | 17-Jun-05 | 0.3 | 0.254 |
| HD3CR1C5 | Soil | BRC-BKG-01C-9-11 | Radium 228 | 1.94 J | R | k, e | pCi/g | 17-Jun-05 | 0.28 | 0.78 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thallium 207 ^p | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thallium 208 | 0.55 | | | pCi/g | 17-Jun-05 | 0.13 | 0.1 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 227 | 0.24 U | | | pCi/g | 17-Jun-05 | 0.52 | 0.93 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 228 | 1.38 | | | pCi/g | 17-Jun-05 | 0.31 | 0.17 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 230 | 1.62 | | | pCi/g | 17-Jun-05 | 0.32 | 0.08 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 231 | 0.17 J | U | b | pCi/g | 17-Jun-05 | 0.11 | 0.04 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 232 | 1.5 | | | pCi/g | 17-Jun-05 | 0.3 | 0.05 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thorium 234 | 2.5 | | | pCi/g | 17-Jun-05 | 0.89 | 1.4 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Uranium 233/234 | 1.92 | | | pCi/g | 17-Jun-05 | 0.35 | 0.07 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Uranium 235 | 0.17 J | J | k | pCi/g | 17-Jun-05 | 0.11 | 0.04 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Uranium 238 | 1.75 | | | pCi/g | 17-Jun-05 | 0.33 | 0.05 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Moisture (%) | 3.1 | | | percent | 17-Jun-05 | | |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Aluminum | 4130 NE | J | j | mg/kg | 17-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Arsenic | 4.8 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Barium | 102 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Beryllium | 0.5 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Boron | 4.3 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Calcium | 41100 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Chromium | 2.6 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Cobalt | 3.9 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Copper | 11 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Iron | 5510 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lead | 3.6 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Lithium | 12.1 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Magnesium | 6680 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Manganese | 151 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Molybdenum | 0.43 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Nickel | 8 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Palladium | 0.84 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Phosphorus | 970 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Potassium | 1310 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Silicon | 831 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Sodium | 522 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Strontium | 363 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Thallium | 0.29 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Tin | 0.24 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Titanium | 352 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Tungsten | 1.2 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Uranium | 1.1 | | | mg/kg | 17-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Vanadium | 22.9 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Zinc | 17.1 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233010 | Soil | BRC-BKG-01C-9-11 | Zirconium | 93.8 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Chloride | 2.3 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Fluoride | 0.36 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Nitrate | 0.31 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Sulfate | 21.9 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | CEC | 7.6 | | | meq/100g | 16-Jun-05 | | |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | pH (solid) | 8.7 | J | h | none | 16-Jun-05 | | |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Actinium 227 ^d | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Actinium 228 | 1.98 | | | pCi/g | 16-Jun-05 | 0.71 | 0.36 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Bismuth 210 ^e | 1.9 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Bismuth 211 ^f | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Bismuth 212 | 1.82 | | | pCi/g | 16-Jun-05 | 0.67 | 0.82 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Bismuth 214 | 1.16 | | | pCi/g | 16-Jun-05 | 0.25 | 0.18 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Cobalt 57 | 0.007 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.053 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Cobalt 60 | -0.058 U | | | pCi/g | 16-Jun-05 | 0.071 | 0.12 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lead 210 | 1.9 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lead 211 ^g | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lead 212 | 1.86 | | | pCi/g | 16-Jun-05 | 0.27 | 0.13 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lead 214 | 1.07 | | | pCi/g | 16-Jun-05 | 0.22 | 0.16 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Polonium 210 ^h | 1.9 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Polonium 212 ⁱ | 1.16 | | | pCi/g | 16-Jun-05 | 0.43 | 0.52 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Polonium 214 ^j | 1.16 | | | pCi/g | 16-Jun-05 | 0.25 | 0.18 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Polonium 215 ^k | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Polonium 216 ^l | 1.86 | | | pCi/g | 16-Jun-05 | 0.27 | 0.13 |
| HDXHK1C4 | Soil | BRC-BKG-02A-0-0.5 | Polonium 218 ^m | 1.2 | | | pCi/g | 16-Jun-05 | 0.15 | 0.101 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Potassium 40 | 25.9 | | | pCi/g | 16-Jun-05 | 3.8 | 0.9 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Protactinium 234 | -0.14 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.25 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Radium 223 ⁿ | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Radium 224 ^o | 1.86 | | | pCi/g | 16-Jun-05 | 0.27 | 0.13 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HDXHK1C4 | Soil | BRC-BKG-02A-0-0.5 | Radium 226 | 1.2 | | | pCi/g | 16-Jun-05 | 0.15 | 0.101 |
| HDXHK1C5 | Soil | BRC-BKG-02A-0-0.5 | Radium 228 | 2.17 | | | pCi/g | 16-Jun-05 | 0.26 | 0.719 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thallium 207 ^P | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thallium 208 | 0.58 | | | pCi/g | 16-Jun-05 | 0.15 | 0.1 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 227 | 0.34 U | | | pCi/g | 16-Jun-05 | 0.44 | 0.81 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 228 | 2.09 | | | pCi/g | 16-Jun-05 | 0.43 | 0.19 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 230 | 1.7 | | | pCi/g | 16-Jun-05 | 0.37 | 0.13 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 231 | 0.076 J | U | b | pCi/g | 16-Jun-05 | 0.085 | 0.051 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 232 | 1.9 | | | pCi/g | 16-Jun-05 | 0.39 | 0.06 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thorium 234 | 1.84 | | | pCi/g | 16-Jun-05 | 0.55 | 1 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Uranium 233/234 | 1.22 | J+ | b | pCi/g | 16-Jun-05 | 0.3 | 0.09 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Uranium 235 | 0.076 J | J | k | pCi/g | 16-Jun-05 | 0.085 | 0.051 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Uranium 238 | 1.38 | | | pCi/g | 16-Jun-05 | 0.32 | 0.06 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Moisture (%) | 1.1 | | | percent | 16-Jun-05 | | |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Aluminum | 6980 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Antimony | 0.23 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Arsenic | 4.2 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Barium | 90.4 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Beryllium | 0.54 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Boron | 4.2 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Calcium | 19300 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Chromium | 8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Cobalt | 5.7 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Copper | 13.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Iron | 10500 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lead | 7.5 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Lithium | 12.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Magnesium | 7380 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Manganese | 263 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Mercury | 0.027 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Molybdenum | 0.47 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Nickel | 11.8 | | | mg/kg | 16-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Palladium | 0.23 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Phosphorus | 1300 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Potassium | 2230 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Selenium | 0.36 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Silicon | 2760 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Sodium | 166 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Strontium | 105 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Thallium | 0.68 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Tin | 0.38 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Titanium | 371 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Tungsten | 0.77 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Uranium | 0.64 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Vanadium | 23.6 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Zinc | 31.7 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132012 | Soil | BRC-BKG-02A-0-0.5 | Zirconium | 99.3 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Chloride | 388 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Nitrate | 102 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Sulfate | 678 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | CEC | 12.1 | | | meq/100g | 16-Jun-05 | | |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | pH (solid) | 8.2 | J | h | none | 16-Jun-05 | | |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Actinium 227 ^d | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Actinium 228 | 1.84 | | | pCi/g | 16-Jun-05 | 0.69 | 0.39 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Bismuth 211 ^f | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Bismuth 212 | 1.7 | | | pCi/g | 16-Jun-05 | 0.63 | 0.7 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Bismuth 214 | 1.08 | | | pCi/g | 16-Jun-05 | 0.24 | 0.16 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Cobalt 57 | -0.007 U | | | pCi/g | 16-Jun-05 | 0.033 | 0.057 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Cobalt 60 | 0.065 U | | | pCi/g | 16-Jun-05 | 0.062 | 0.14 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lead 210 | 0.3 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lead 211 ^g | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lead 212 | 1.92 | | | pCi/g | 16-Jun-05 | 0.28 | 0.14 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lead 214 | 0.89 | | | pCi/g | 16-Jun-05 | 0.2 | 0.19 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Polonium 210 ^h | 0.3 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Polonium 212 ⁱ | 1.09 | | | pCi/g | 16-Jun-05 | 0.41 | 0.45 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Polonium 214 ^j | 1.08 | | | pCi/g | 16-Jun-05 | 0.24 | 0.16 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Polonium 215 ^k | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Polonium 216 ^l | 1.92 | | | pCi/g | 16-Jun-05 | 0.28 | 0.14 |
| HDXHL1C4 | Soil | BRC-BKG-02A-4-6 | Polonium 218 ^m | 1.15 | | | pCi/g | 16-Jun-05 | 0.14 | 0.11 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Potassium 40 | 27 | | | pCi/g | 16-Jun-05 | 4 | 0.8 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Protactinium 234 | 0.004 U | | | pCi/g | 16-Jun-05 | 0.18 | 0.3 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Radium 223 ⁿ | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Radium 224 ^o | 1.92 | | | pCi/g | 16-Jun-05 | 0.28 | 0.14 |
| HDXHL1C4 | Soil | BRC-BKG-02A-4-6 | Radium 226 | 1.15 | | | pCi/g | 16-Jun-05 | 0.14 | 0.11 |
| HDXHL1C5 | Soil | BRC-BKG-02A-4-6 | Radium 228 | 2.01 | | | pCi/g | 16-Jun-05 | 0.24 | 0.654 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thallium 207 ^p | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thallium 208 | 0.65 | | | pCi/g | 16-Jun-05 | 0.15 | 0.1 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 227 | 0.14 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.83 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 228 | 1.97 | | | pCi/g | 16-Jun-05 | 0.42 | 0.18 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 230 | 1.15 | | | pCi/g | 16-Jun-05 | 0.29 | 0.08 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 231 | 0.014 U | | | pCi/g | 16-Jun-05 | 0.041 | 0.039 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 232 | 2.06 | | | pCi/g | 16-Jun-05 | 0.41 | 0.07 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thorium 234 | 2.18 | | | pCi/g | 16-Jun-05 | 0.82 | 1.3 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Uranium 233/234 | 0.92 J | U | b | pCi/g | 16-Jun-05 | 0.23 | 0.08 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Uranium 235 | 0.014 U | | | pCi/g | 16-Jun-05 | 0.041 | 0.039 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Uranium 238 | 1.02 | | | pCi/g | 16-Jun-05 | 0.24 | 0.07 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Moisture (%) | 2.1 | | | percent | 16-Jun-05 | | |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Aluminum | 6530 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Antimony | 0.14 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Arsenic | 3 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Barium | 216 N | | | mg/kg | 16-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Beryllium | 0.55 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Boron | 3.5 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Calcium | 13500 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Chromium | 6.4 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Cobalt | 5.9 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Copper | 13.5 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Iron | 9430 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lead | 6.6 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Lithium | 10.8 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Magnesium | 4690 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Manganese | 323 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Molybdenum | 0.53 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Nickel | 10.6 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Palladium | 0.37 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Phosphorus | 1200 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Potassium | 2370 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Silicon | 1090 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Sodium | 487 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Strontium | 168 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Thallium | 0.79 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Tin | 0.43 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Titanium | 536 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Tungsten | 0.97 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Uranium | 0.76 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Vanadium | 30.8 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Zinc | 25.9 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132013 | Soil | BRC-BKG-02A-4-6 | Zirconium | 125 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Chloride | 254 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Fluoride | 0.32 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Nitrate | 42.1 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Sulfate | 21.2 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | CEC | 13.6 | | | meq/100g | 16-Jun-05 | | |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | pH (solid) | 8.4 | J | h | none | 16-Jun-05 | | |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Actinium 227 ^d | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Actinium 228 | 1.9 | | | pCi/g | 16-Jun-05 | 0.66 | 0.37 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Bismuth 210 ^e | 1 U | | | pCi/g | 16-Jun-05 | 1.1 | 1.7 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Bismuth 211 ^f | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Bismuth 212 | 1.36 | | | pCi/g | 16-Jun-05 | 0.63 | 0.75 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Bismuth 214 | 0.95 | | | pCi/g | 16-Jun-05 | 0.22 | 0.36 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Cobalt 57 | 0.012 U | | | pCi/g | 16-Jun-05 | 0.029 | 0.05 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Cobalt 60 | 0.013 U | | | pCi/g | 16-Jun-05 | 0.051 | 0.1 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lead 210 | 1 U | | | pCi/g | 16-Jun-05 | 1.1 | 1.7 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lead 211 ^g | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lead 212 | 1.62 | | | pCi/g | 16-Jun-05 | 0.26 | 0.15 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lead 214 | 0.97 | | | pCi/g | 16-Jun-05 | 0.2 | 0.15 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Polonium 210 ^h | 1 U | | | pCi/g | 16-Jun-05 | 1.1 | 1.7 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Polonium 212 ⁱ | 0.87 | | | pCi/g | 16-Jun-05 | 0.4 | 0.48 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Polonium 214 ^j | 0.95 | | | pCi/g | 16-Jun-05 | 0.22 | 0.16 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Polonium 215 ^k | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Polonium 216 ^l | 1.62 | | | pCi/g | 16-Jun-05 | 0.26 | 0.15 |
| HDXHM1DH | Soil | BRC-BKG-02A-9-11 | Polonium 218 ^m | 1.07 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.112 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Potassium 40 | 24.5 | | | pCi/g | 16-Jun-05 | 3.4 | 5.2 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Protactinium 234 | -0.001 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.24 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Radium 223 ⁿ | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Radium 224 ^o | 1.62 | | | pCi/g | 16-Jun-05 | 0.26 | 0.15 |
| HDXHM1DH | Soil | BRC-BKG-02A-9-11 | Radium 226 | 1.07 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.112 |
| HDXHM1DJ | Soil | BRC-BKG-02A-9-11 | Radium 228 | 2.04 | | | pCi/g | 16-Jun-05 | 0.25 | 0.723 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thallium 207 ^p | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thallium 208 | 0.54 | | | pCi/g | 16-Jun-05 | 0.14 | 0.1 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 227 | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 228 | 1.86 | | | pCi/g | 16-Jun-05 | 0.4 | 0.18 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 230 | 1.56 | | | pCi/g | 16-Jun-05 | 0.35 | 0.09 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 231 | 0 U | | | pCi/g | 16-Jun-05 | 0 | 0.05 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 232 | 1.69 | | | pCi/g | 16-Jun-05 | 0.36 | 0.09 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thorium 234 | 1.2 | | | pCi/g | 16-Jun-05 | 0.66 | 1.1 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Uranium 233/234 | 1.16 | U | b | pCi/g | 16-Jun-05 | 0.28 | 0.07 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Uranium 235 | 0 U | | | pCi/g | 16-Jun-05 | 0 | 0.05 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Uranium 238 | 1.31 | | | pCi/g | 16-Jun-05 | 0.3 | 0.07 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Moisture (%) | 1.6 | | | percent | 16-Jun-05 | | |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Aluminum | 6420 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Arsenic | 3.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Barium | 174 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Beryllium | 0.53 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Boron | 3.4 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Calcium | 20000 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Chromium | 8.4 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Cobalt | 6.1 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Copper | 14.9 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Iron | 10200 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lead | 6 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Lithium | 11.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Magnesium | 5530 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Manganese | 266 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Mercury | 0.0098 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Molybdenum | 0.51 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Nickel | 11.7 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Palladium | 0.4 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Phosphorus | 1530 N | | | mg/kg | 16-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Potassium | 1890 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Silicon | 1380 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Sodium | 560 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Strontium | 202 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Thallium | 0.47 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Tin | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Titanium | 586 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Tungsten | 0.89 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Uranium | 0.68 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Vanadium | 34.6 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Zinc | 26.3 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132014 | Soil | BRC-BKG-02A-9-11 | Zirconium | 125 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Chloride | 1.5 B | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Fluoride | 0.34 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Nitrate | 0.19 B | J | h, g | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Sulfate | 124 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | CEC | 13.7 | | | meq/100g | 16-Jun-05 | | |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | pH (solid) | 8.5 | J | h | none | 16-Jun-05 | | |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Actinium 227 ^d | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Actinium 228 | 2.05 | | | pCi/g | 16-Jun-05 | 0.69 | 0.39 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Bismuth 210 ^e | 1 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Bismuth 211 ^f | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Bismuth 212 | 1.19 | | | pCi/g | 16-Jun-05 | 0.75 | 0.77 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Bismuth 214 | 1.12 | | | pCi/g | 16-Jun-05 | 0.29 | 0.39 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Cobalt 57 | -0.024 U | | | pCi/g | 16-Jun-05 | 0.03 | 0.049 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Cobalt 60 | 0.019 U | | | pCi/g | 16-Jun-05 | 0.062 | 0.12 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lead 210 | 1 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lead 211 ^g | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lead 212 | 1.76 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lead 214 | 0.96 | | | pCi/g | 16-Jun-05 | 0.21 | 0.15 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Polonium 210 ^h | 1 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Polonium 212 ⁱ | 0.76 | | | pCi/g | 16-Jun-05 | 0.48 | 0.5 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Polonium 214 ^j | 1.12 | | | pCi/g | 16-Jun-05 | 0.29 | 0.17 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Polonium 215 ^k | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Polonium 216 ^l | 1.76 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHN1C4 | Soil | BRC-BKG-02B-0-0.5 | Polonium 218 ^m | 0.945 J | J | k, n | pCi/g | 16-Jun-05 | 0.13 | 0.186 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Potassium 40 | 24.2 | | | pCi/g | 16-Jun-05 | 3.9 | 1 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Protactinium 234 | -0.13 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.26 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Radium 223 ⁿ | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Radium 224 ^o | 1.76 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHN1C4 | Soil | BRC-BKG-02B-0-0.5 | Radium 226 | 0.945 J | J | k, n | pCi/g | 16-Jun-05 | 0.13 | 0.186 |
| HDXHN1C5 | Soil | BRC-BKG-02B-0-0.5 | Radium 228 | 2.34 | | | pCi/g | 16-Jun-05 | 0.26 | 0.684 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thallium 207 ^p | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thallium 208 | 0.62 | | | pCi/g | 16-Jun-05 | 0.15 | 0.1 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 227 | 0.08 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.79 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 228 | 1.66 | | | pCi/g | 16-Jun-05 | 0.31 | 0.09 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 230 | 1.21 | | | pCi/g | 16-Jun-05 | 0.25 | 0.05 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 231 | 0.011 U | | | pCi/g | 16-Jun-05 | 0.059 | 0.11 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 232 | 1.81 | | | pCi/g | 16-Jun-05 | 0.32 | 0.06 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thorium 234 | 0.83 U | | | pCi/g | 16-Jun-05 | 0.64 | 1.1 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Uranium 233/234 | 1 J | U | b | pCi/g | 16-Jun-05 | 0.26 | 0.12 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Uranium 235 | 0.011 U | | | pCi/g | 16-Jun-05 | 0.059 | 0.11 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Uranium 238 | 1.08 | | | pCi/g | 16-Jun-05 | 0.26 | 0.08 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Moisture (%) | 1.2 | | | percent | 16-Jun-05 | | |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Aluminum | 9620 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Antimony | 0.24 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Arsenic | 6.3 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Barium | 131 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Beryllium | 0.72 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Boron | 5.9 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Calcium | 30200 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Chromium | 11.1 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Cobalt | 7.3 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Copper | 18.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Iron | 13200 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lead | 9.2 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Lithium | 18.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Magnesium | 10000 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Manganese | 344 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Mercury | 0.015 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Molybdenum | 0.61 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Nickel | 16.3 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Palladium | 0.41 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Phosphorus | 1510 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Potassium | 3510 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Selenium | 0.3 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Silicon | 3580 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Sodium | 276 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Strontium | 188 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Thallium | 0.2 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Tin | 0.53 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Titanium | 549 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Tungsten | 0.75 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Uranium | 0.96 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Vanadium | 36 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Zinc | 42.3 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132015 | Soil | BRC-BKG-02B-0-0.5 | Zirconium | 130 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Chloride | 332 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Nitrate | 75.8 | J | h | mg/kg | 16-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Sulfate | 180 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | CEC | 16.5 | | | meq/100g | 16-Jun-05 | | |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | pH (solid) | 8.2 | J | h | none | 16-Jun-05 | | |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Actinium 227 ^d | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Actinium 228 | 2.28 | | | pCi/g | 16-Jun-05 | 0.79 | 0.41 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Bismuth 210 ^e | 1.4 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.4 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Bismuth 211 ^f | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Bismuth 212 | 0.99 | | | pCi/g | 16-Jun-05 | 0.78 | 0.99 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Bismuth 214 | 1.21 | | | pCi/g | 16-Jun-05 | 0.26 | 0.18 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Cobalt 57 | 0.0003 U | | | pCi/g | 16-Jun-05 | 0.035 | 0.061 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Cobalt 60 | -0.014 U | | | pCi/g | 16-Jun-05 | 0.07 | 0.13 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lead 210 | 1.4 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.4 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lead 211 ^g | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lead 212 | 1.72 | | | pCi/g | 16-Jun-05 | 0.31 | 0.24 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lead 214 | 1.1 | | | pCi/g | 16-Jun-05 | 0.25 | 0.16 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Polonium 210 ^h | 1.4 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.4 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Polonium 212 ⁱ | 0.63 | | | pCi/g | 16-Jun-05 | 0.5 | 0.63 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Polonium 214 ^j | 1.21 | | | pCi/g | 16-Jun-05 | 0.26 | 0.18 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Polonium 215 ^k | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Polonium 216 ^l | 1.72 | | | pCi/g | 16-Jun-05 | 0.31 | 0.24 |
| HDXHP1C4 | Soil | BRC-BKG-02B-4-6 | Polonium 218 ^m | 0.965 J | J | k | pCi/g | 16-Jun-05 | 0.14 | 0.156 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Potassium 40 | 26.2 | | | pCi/g | 16-Jun-05 | 3.9 | 0.9 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Protactinium 234 | -0.12 U | | | pCi/g | 16-Jun-05 | 0.19 | 0.31 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Radium 223 ⁿ | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Radium 224 ^o | 1.72 | | | pCi/g | 16-Jun-05 | 0.31 | 0.24 |
| HDXHP1C4 | Soil | BRC-BKG-02B-4-6 | Radium 226 | 0.965 J | J | k | pCi/g | 16-Jun-05 | 0.14 | 0.156 |
| HDXHP1C5 | Soil | BRC-BKG-02B-4-6 | Radium 228 | 2.36 | | | pCi/g | 16-Jun-05 | 0.27 | 0.743 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thallium 207 ^p | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thallium 208 | 0.66 | | | pCi/g | 16-Jun-05 | 0.16 | 0.1 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 227 | 0.23 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.86 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 228 | 2.03 | | | pCi/g | 16-Jun-05 | 0.44 | 0.3 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 230 | 1.07 | | | pCi/g | 16-Jun-05 | 0.27 | 0.12 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 231 | 0.086 U | | | pCi/g | 16-Jun-05 | 0.084 | 0.096 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 232 | 2 | | | pCi/g | 16-Jun-05 | 0.39 | 0.1 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thorium 234 | 0.75 U | | | pCi/g | 16-Jun-05 | 0.82 | 1.3 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Uranium 233/234 | 1.01 | U | b | pCi/g | 16-Jun-05 | 0.25 | 0.1 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Uranium 235 | 0.086 U | | | pCi/g | 16-Jun-05 | 0.084 | 0.096 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Uranium 238 | 0.99 J | J | k | pCi/g | 16-Jun-05 | 0.24 | 0.09 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Moisture (%) | 2.2 | | | percent | 16-Jun-05 | | |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Aluminum | 7650 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Arsenic | 3.6 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Barium | 224 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Beryllium | 0.54 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Boron | 4.1 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Calcium | 13000 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Chromium | 12 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Cobalt | 7.4 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Copper | 20.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Iron | 11200 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lead | 6.8 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Lithium | 11.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Magnesium | 5670 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Manganese | 353 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Molybdenum | 2 | | | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Nickel | 14.1 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Niobium | 2.8 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Palladium | 0.43 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Phosphorus | 1600 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Potassium | 2660 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Selenium | 0.36 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Silicon | 1330 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Sodium | 575 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Strontium | 209 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Thallium | 0.61 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Tin | 0.62 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Titanium | 703 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Tungsten | 1.8 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Uranium | 0.84 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Vanadium | 39.9 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Zinc | 26.9 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132016 | Soil | BRC-BKG-02B-4-6 | Zirconium | 138 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Chloride | 330 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Fluoride | 0.76 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Nitrate | 34.5 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Sulfate | 49.8 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | CEC | 11.3 | | | meq/100g | 16-Jun-05 | | |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | pH (solid) | 8.3 | J | h | none | 16-Jun-05 | | |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Actinium 227 ^d | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Actinium 228 | 2 | | | pCi/g | 16-Jun-05 | 0.69 | 0.37 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Bismuth 211 ^f | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Bismuth 212 | 1.53 | | | pCi/g | 16-Jun-05 | 0.71 | 0.81 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Bismuth 214 | 0.82 | | | pCi/g | 16-Jun-05 | 0.21 | 0.18 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Cobalt 57 | -0.004 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.052 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Cobalt 60 | -0.018 U | | | pCi/g | 16-Jun-05 | 0.065 | 0.12 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lead 210 | 0.6 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lead 211 ^g | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lead 212 | 1.72 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lead 214 | 1.01 | | | pCi/g | 16-Jun-05 | 0.23 | 0.16 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Polonium 210 ^h | 0.6 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Polonium 212 ⁱ | 0.98 | | | pCi/g | 16-Jun-05 | 0.46 | 0.52 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Polonium 214 ^j | 0.82 | | | pCi/g | 16-Jun-05 | 0.21 | 0.18 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Polonium 215 ^k | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Polonium 216 ^l | 1.72 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| HDXHQ1C4 | Soil | BRC-BKG-02B-9-11 | Polonium 218 ^m | 1.03 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.166 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Potassium 40 | 25.6 | | | pCi/g | 16-Jun-05 | 3.7 | 1 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Protactinium 234 | -0.19 U | | | pCi/g | 16-Jun-05 | 0.14 | 0.23 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Radium 223 ⁿ | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Radium 224 ^o | 1.72 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| HDXHQ1C4 | Soil | BRC-BKG-02B-9-11 | Radium 226 | 1.03 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.166 |
| HDXHQ1C5 | Soil | BRC-BKG-02B-9-11 | Radium 228 | 2.05 | | | pCi/g | 16-Jun-05 | 0.25 | 0.704 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thallium 207 ^p | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thallium 208 | 0.6 | | | pCi/g | 16-Jun-05 | 0.13 | 0.1 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 227 | 0.15 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.77 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 228 | 1.56 | | | pCi/g | 16-Jun-05 | 0.36 | 0.28 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 230 | 1.03 | | | pCi/g | 16-Jun-05 | 0.24 | 0.1 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 231 | 0.031 U | | | pCi/g | 16-Jun-05 | 0.051 | 0.074 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 232 | 1.37 | | | pCi/g | 16-Jun-05 | 0.28 | 0.06 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thorium 234 | 1.66 | | | pCi/g | 16-Jun-05 | 0.5 | 0.86 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Uranium 233/234 | 1.03 | U | b | pCi/g | 16-Jun-05 | 0.26 | 0.09 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Uranium 235 | 0.031 U | | | pCi/g | 16-Jun-05 | 0.051 | 0.074 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Uranium 238 | 1.07 | | | pCi/g | 16-Jun-05 | 0.27 | 0.04 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Moisture (%) | 1.8 | | | percent | 16-Jun-05 | | |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Aluminum | 6560 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Antimony | 0.16 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Arsenic | 3.9 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Barium | 177 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Beryllium | 0.5 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Boron | 3.7 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Calcium | 26500 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Chromium | 5.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Cobalt | 5.8 | | | mg/kg | 16-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Copper | 14.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Iron | 9170 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lead | 5.7 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Lithium | 11.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Magnesium | 5640 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Manganese | 290 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Mercury | 0.012 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Molybdenum | 0.6 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Nickel | 11.1 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Niobium | 2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Palladium | 0.52 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Phosphorus | 1370 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Potassium | 2010 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Silicon | 1120 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Sodium | 568 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Strontium | 225 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Thallium | U | | | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Tin | 0.43 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Titanium | 582 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Tungsten | 1.4 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Uranium | 0.83 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Vanadium | 33.9 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Zinc | 24.4 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132017 | Soil | BRC-BKG-02B-9-11 | Zirconium | 126 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Chloride | 1.6 B | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Fluoride | 0.32 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Nitrate | 0.37 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Sulfate | 15.9 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | CEC | 8.3 | | | meq/100g | 16-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | pH (solid) | 8.8 | J | h | none | 16-Jun-05 | | |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Actinium 227 ^d | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Actinium 228 | 1.65 | | | pCi/g | 16-Jun-05 | 0.63 | 0.42 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Bismuth 210 ^e | -0.05 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Bismuth 211 ^f | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Bismuth 212 | 1.62 | | | pCi/g | 16-Jun-05 | 0.67 | 0.73 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Bismuth 214 | 1.01 | | | pCi/g | 16-Jun-05 | 0.25 | 0.39 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Cobalt 57 | -0.009 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.051 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Cobalt 60 | 0.044 U | | | pCi/g | 16-Jun-05 | 0.056 | 0.12 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lead 210 | -0.05 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lead 211 ^g | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lead 212 | 1.77 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lead 214 | 0.93 | | | pCi/g | 16-Jun-05 | 0.22 | 0.16 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Polonium 210 ^h | -0.05 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Polonium 212 ⁱ | 1.04 | | | pCi/g | 16-Jun-05 | 0.43 | 0.47 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Polonium 214 ^j | 1.01 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Polonium 215 ^k | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Polonium 216 ^l | 1.77 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHR1C4 | Soil | BRC-BKG-02C-0-0.5 | Polonium 218 ^m | 1.06 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.149 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Potassium 40 | 24.5 | | | pCi/g | 16-Jun-05 | 4 | 1.3 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Protactinium 234 | -0.05 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.26 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Radium 223 ⁿ | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Radium 224 ^o | 1.77 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHR1C4 | Soil | BRC-BKG-02C-0-0.5 | Radium 226 | 1.06 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.149 |
| HDXHR1C5 | Soil | BRC-BKG-02C-0-0.5 | Radium 228 | 1.91 J | J | k | pCi/g | 16-Jun-05 | 0.22 | 0.572 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thallium 207 ^p | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thallium 208 | 0.63 | | | pCi/g | 16-Jun-05 | 0.13 | 0.09 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 227 | 0.2 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.77 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 228 | 1.9 | | | pCi/g | 16-Jun-05 | 0.42 | 0.21 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 230 | 1.41 | | | pCi/g | 16-Jun-05 | 0.33 | 0.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 231 | 0 U | | | pCi/g | 16-Jun-05 | 0 | 0.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 232 | 2.12 | | | pCi/g | 16-Jun-05 | 0.42 | 0.07 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thorium 234 | 2.07 | | | pCi/g | 16-Jun-05 | 0.57 | 0.98 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Uranium 233/234 | 1.22 | J+ | b | pCi/g | 16-Jun-05 | 0.33 | 0.15 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Uranium 235 | 0 U | | | pCi/g | 16-Jun-05 | 0 | 0.1 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Uranium 238 | 1.14 | | | pCi/g | 16-Jun-05 | 0.31 | 0.11 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Moisture (%) | 1.1 | | | percent | 16-Jun-05 | | |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Aluminum | 10800 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Antimony | 0.21 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Arsenic | 5.9 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Barium | 146 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Beryllium | 0.8 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Boron | 5.7 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Calcium | 30100 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Chromium | 10.1 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Cobalt | 7.3 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Copper | 19.1 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Iron | 12500 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lead | 9 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Lithium | 17.3 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Magnesium | 10200 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Manganese | 340 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Mercury | 0.014 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Molybdenum | 0.59 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Nickel | 16 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Palladium | 0.37 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Phosphorus | 1520 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Potassium | 3410 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Selenium | 0.29 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Silicon | 3680 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Sodium | 247 | | | mg/kg | 16-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Strontium | 173 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Thallium | 0.52 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Tin | 0.56 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Titanium | 530 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Uranium | 1.1 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Vanadium | 34.2 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Zinc | 43.1 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132018 | Soil | BRC-BKG-02C-0-0.5 | Zirconium | 134 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Chloride | 278 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Nitrate | 14.6 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Sulfate | 311 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | CEC | 10.4 | | | meq/100g | 16-Jun-05 | | |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | pH (solid) | 8.5 | J | h | none | 16-Jun-05 | | |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Actinium 227 ^d | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Actinium 228 | 2.35 | | | pCi/g | 16-Jun-05 | 0.79 | 0.33 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Bismuth 211 ^f | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Bismuth 212 | 1.06 | | | pCi/g | 16-Jun-05 | 0.74 | 0.78 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Bismuth 214 | 1.08 | | | pCi/g | 16-Jun-05 | 0.26 | 0.44 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Cobalt 57 | 0.004 U | | | pCi/g | 16-Jun-05 | 0.035 | 0.062 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Cobalt 60 | -0.038 U | | | pCi/g | 16-Jun-05 | 0.061 | 0.1 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lead 210 | 0.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lead 211 ^g | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lead 212 | 1.72 | | | pCi/g | 16-Jun-05 | 0.32 | 0.19 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lead 214 | 1.2 | | | pCi/g | 16-Jun-05 | 0.29 | 0.16 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Polonium 210 ^h | 0.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Polonium 212 ⁱ | 0.68 | | | pCi/g | 16-Jun-05 | 0.47 | 0.5 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Polonium 214 ^j | 1.08 | | | pCi/g | 16-Jun-05 | 0.25 | 0.19 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Polonium 215 ^k | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Polonium 216 ^l | 1.72 | | | pCi/g | 16-Jun-05 | 0.32 | 0.19 |
| HDXHT1FH | Soil | BRC-BKG-02C-4-6 | Polonium 218 ^m | 1.37 | | | pCi/g | 16-Jun-05 | 0.18 | 0.133 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Potassium 40 | 28.5 | | | pCi/g | 16-Jun-05 | 4.3 | 1.1 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Protactinium 234 | -0.15 U | | | pCi/g | 16-Jun-05 | 0.18 | 0.3 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Radium 223 ⁿ | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Radium 224 ^o | 1.72 | | | pCi/g | 16-Jun-05 | 0.32 | 0.19 |
| HDXHT1FH | Soil | BRC-BKG-02C-4-6 | Radium 226 | 1.37 | | | pCi/g | 16-Jun-05 | 0.18 | 0.133 |
| HDXHT1FJ | Soil | BRC-BKG-02C-4-6 | Radium 228 | 1.61 J | J | k | pCi/g | 16-Jun-05 | 0.22 | 0.636 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thallium 207 ^p | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thallium 208 | 0.58 | | | pCi/g | 16-Jun-05 | 0.14 | 0.11 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 227 | 0.36 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.86 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 228 | 2.08 | | | pCi/g | 16-Jun-05 | 0.36 | 0.08 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 230 | 1.46 | | | pCi/g | 16-Jun-05 | 0.29 | 0.06 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 231 | 0.067 U | | | pCi/g | 16-Jun-05 | 0.091 | 0.12 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 232 | 2.04 | | | pCi/g | 16-Jun-05 | 0.35 | 0.06 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thorium 234 | 0.97 U | | | pCi/g | 16-Jun-05 | 0.75 | 1.3 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Uranium 233/234 | 1.14 | U | b | pCi/g | 16-Jun-05 | 0.31 | 0.15 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Uranium 235 | 0.067 U | | | pCi/g | 16-Jun-05 | 0.091 | 0.12 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Uranium 238 | 1.07 | | | pCi/g | 16-Jun-05 | 0.29 | 0.1 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Moisture (%) | 3 | | | percent | 16-Jun-05 | | |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Aluminum | 6470 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Antimony | 0.17 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Arsenic | 3.6 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Barium | 167 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Beryllium | 0.47 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Boron | 3.8 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Calcium | 19100 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Chromium | 5.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Cobalt | 5.7 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Copper | 13.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Iron | 9450 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lead | 6.6 | | | mg/kg | 16-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Lithium | 10.6 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Magnesium | 4960 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Manganese | 270 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Mercury | 0.0086 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Molybdenum | 0.51 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Nickel | 10 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Niobium | 1.8 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Palladium | 0.35 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Phosphorus | 1480 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Potassium | 2050 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Selenium | 0.34 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Silicon | 907 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Sodium | 777 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Strontium | 184 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Thallium | 0.56 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Tin | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Titanium | 495 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Uranium | 0.73 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Vanadium | 30.5 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Zinc | 26.9 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132019 | Soil | BRC-BKG-02C-4-6 | Zirconium | 131 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Chloride | 535 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Fluoride | 0.4 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Nitrate | 2.1 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Sulfate | 17.7 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | CEC | 9.6 | | | meq/100g | 16-Jun-05 | | |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | pH (solid) | 8.3 | J | h | none | 16-Jun-05 | | |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Actinium 227 ^d | -0.09 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|--------|
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Actinium 228 | 2.32 | | pCi/g | 16-Jun-05 | 0.77 | 0.33 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Bismuth 210 ^e | 0.009 U | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Bismuth 211 ^f | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Bismuth 212 | 1.46 | | pCi/g | 16-Jun-05 | 0.57 | 0.6 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Bismuth 214 | 0.97 | | pCi/g | 16-Jun-05 | 0.25 | 0.4 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Cobalt 57 | 0.002 U | | pCi/g | 16-Jun-05 | 0.03 | 0.051 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Cobalt 60 | 0.007 U | | pCi/g | 16-Jun-05 | 0.065 | 0.12 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lead 210 | 0.009 U | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lead 211 ^g | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lead 212 | 1.78 | | pCi/g | 16-Jun-05 | 0.26 | 0.14 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lead 214 | 1.11 | | pCi/g | 16-Jun-05 | 0.23 | 0.16 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Polonium 210 ^h | 0.009 U | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Polonium 212 ⁱ | 0.93 | | pCi/g | 16-Jun-05 | 0.36 | 0.39 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Polonium 214 ^j | 0.97 | | pCi/g | 16-Jun-05 | 0.25 | 0.18 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Polonium 215 ^k | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Polonium 216 ^l | 1.78 | | pCi/g | 16-Jun-05 | 0.26 | 0.14 |
| HDXHV1C5 | Soil | BRC-BKG-02C-9-11 | Polonium 218 ^m | 1.27 | | pCi/g | 16-Jun-05 | 0.15 | 0.0727 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Potassium 40 | 27 | | pCi/g | 16-Jun-05 | 3.8 | 5.7 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Protactinium 234 | -0.03 U | | pCi/g | 16-Jun-05 | 0.16 | 0.25 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Radium 223 ⁿ | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Radium 224 ^o | 1.78 | | pCi/g | 16-Jun-05 | 0.26 | 0.14 |
| HDXHV1C5 | Soil | BRC-BKG-02C-9-11 | Radium 226 | 1.27 | | pCi/g | 16-Jun-05 | 0.15 | 0.0727 |
| HDXHV1C6 | Soil | BRC-BKG-02C-9-11 | Radium 228 | 2.92 | | pCi/g | 16-Jun-05 | 0.3 | 0.559 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thallium 207 ^p | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thallium 208 | 0.62 | | pCi/g | 16-Jun-05 | 0.14 | 0.1 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 227 | -0.09 U | | pCi/g | 16-Jun-05 | 0.43 | 0.75 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 228 | 1.97 | | pCi/g | 16-Jun-05 | 0.34 | 0.08 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 230 | 1.1 | | pCi/g | 16-Jun-05 | 0.24 | 0.05 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 231 | 0.001 U | | pCi/g | 16-Jun-05 | 0.044 | 0.097 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 232 | 1.98 | | pCi/g | 16-Jun-05 | 0.34 | 0.03 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thorium 234 | 1.37 | | pCi/g | 16-Jun-05 | 0.72 | 1.2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Uranium 233/234 | 1.17 | U | pCi/g | 16-Jun-05 | 0.28 | 0.13 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Uranium 235 | 0.001 U | | pCi/g | 16-Jun-05 | 0.044 | 0.097 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Uranium 238 | 1.1 | | | pCi/g | 16-Jun-05 | 0.26 | 0.09 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Moisture (%) | 2 | | | percent | 16-Jun-05 | | |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Aluminum | 8450 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Antimony | 0.14 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Arsenic | 3.7 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Barium | 184 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Beryllium | 0.54 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Boron | 4.9 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Calcium | 18400 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Chromium | 6 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Cobalt | 7 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Copper | 15.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Iron | 10100 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lead | 7.2 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Lithium | 11.8 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Magnesium | 6340 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Manganese | 339 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Molybdenum | 0.61 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Nickel | 12.8 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Niobium | 2 BN | U | b | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Palladium | 0.53 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Phosphorus | 1440 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Potassium | 2270 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Selenium | 0.31 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Silicon | 1300 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Sodium | 629 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Strontium | 239 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Thallium | 0.38 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Tin | 0.51 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Titanium | 616 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Tungsten | 2.1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Uranium | 0.84 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Vanadium | 36.6 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Zinc | 28.5 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132020 | Soil | BRC-BKG-02C-9-11 | Zirconium | 133 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Chloride | 0.77 B | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Nitrate | 0.25 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Nitrite | 0.15 B | J | h, g | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Sulfate | 2.2 B | U | b | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | CEC | 14.8 | | | meq/100g | 16-Jun-05 | | |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | pH (solid) | 8.7 | J | h | none | 16-Jun-05 | | |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Actinium 227 ^d | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Actinium 228 | 2.2 | | | pCi/g | 16-Jun-05 | 0.75 | 0.43 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Bismuth 210 ^e | 1.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Bismuth 211 ^f | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Bismuth 212 | 1.34 | | | pCi/g | 16-Jun-05 | 0.75 | 0.83 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Bismuth 214 | 1.26 | | | pCi/g | 16-Jun-05 | 0.31 | 0.52 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Cobalt 57 | 0.006 U | | | pCi/g | 16-Jun-05 | 0.035 | 0.061 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Cobalt 60 | -0.073 U | | | pCi/g | 16-Jun-05 | 0.065 | 0.093 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lead 210 | 1.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lead 211 ^g | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lead 212 | 1.63 | | | pCi/g | 16-Jun-05 | 0.28 | 0.18 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lead 214 | 1.11 | | | pCi/g | 16-Jun-05 | 0.27 | 0.17 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Polonium 210 ^h | 1.5 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Polonium 212 ⁱ | 0.86 | | | pCi/g | 16-Jun-05 | 0.48 | 0.53 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Polonium 214 ^j | 1.26 | | | pCi/g | 16-Jun-05 | 0.31 | 0.21 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Polonium 215 ^k | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Polonium 216 ^l | 1.63 | | | pCi/g | 16-Jun-05 | 0.28 | 0.18 |
| HDXHW1C8 | Soil | BRC-BKG-03A-0-0.5 | Polonium 218 ^m | 1.18 | | | pCi/g | 16-Jun-05 | 0.15 | 0.133 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Potassium 40 | 25 | | | pCi/g | 16-Jun-05 | 3.8 | 1.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Protactinium 234 | -0.11 U | | | pCi/g | 16-Jun-05 | 0.18 | 0.3 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Radium 223 ⁿ | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Radium 224 ^o | 1.63 | | | pCi/g | 16-Jun-05 | 0.28 | 0.18 |
| HDXHW1C8 | Soil | BRC-BKG-03A-0-0.5 | Radium 226 | 1.18 | | | pCi/g | 16-Jun-05 | 0.15 | 0.133 |
| HDXHW1C9 | Soil | BRC-BKG-03A-0-0.5 | Radium 228 | 2.05 | | | pCi/g | 16-Jun-05 | 0.24 | 0.54 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thallium 207 ^p | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thallium 208 | 0.68 | | | pCi/g | 16-Jun-05 | 0.16 | 0.11 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 227 | 0.38 U | | | pCi/g | 16-Jun-05 | 0.52 | 0.97 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 228 | 1.89 | | | pCi/g | 16-Jun-05 | 0.39 | 0.19 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 230 | 1.22 | | | pCi/g | 16-Jun-05 | 0.29 | 0.12 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 231 | 0.059 U | | | pCi/g | 16-Jun-05 | 0.07 | 0.089 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 232 | 2.05 | | | pCi/g | 16-Jun-05 | 0.39 | 0.09 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thorium 234 | -0.26 U | | | pCi/g | 16-Jun-05 | 0.92 | 1.4 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Uranium 233/234 | 0.85 J | U | b | pCi/g | 16-Jun-05 | 0.22 | 0.07 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Uranium 235 | 0.059 U | | | pCi/g | 16-Jun-05 | 0.07 | 0.089 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Uranium 238 | 0.74 J | J | k | pCi/g | 16-Jun-05 | 0.2 | 0.07 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Moisture (%) | 0.54 | | | percent | 16-Jun-05 | | |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Aluminum | 11400 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Antimony | 0.23 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Arsenic | 4.7 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Barium | 205 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Beryllium | 0.57 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Boron | 6.1 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Calcium | 19900 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Chromium | 12 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Cobalt | 8.1 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Copper | 17.8 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Iron | 13200 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lead | 11 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Lithium | 14.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Magnesium | 12500 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Manganese | 464 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Molybdenum | 0.77 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Nickel | 17.1 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Niobium | 1.6 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Palladium | 0.3 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Phosphorus | 1240 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Potassium | 3140 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Selenium | 0.3 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Silicon | 2780 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Sodium | 155 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Strontium | 145 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Thallium | 0.96 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Tin | 0.67 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Titanium | 641 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Tungsten | 1.7 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Uranium | 0.97 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Vanadium | 40.6 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Zinc | 38.9 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132021 | Soil | BRC-BKG-03A-0-0.5 | Zirconium | 111 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Chloride | 199 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Fluoride | 0.63 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Nitrate | 26.1 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Sulfate | 143 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | CEC | 8.6 | | | meq/100g | 16-Jun-05 | | |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | pH (solid) | 8.5 | J | h | none | 16-Jun-05 | | |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Actinium 227 ^d | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Actinium 228 | 1.67 | | | pCi/g | 16-Jun-05 | 0.69 | 0.39 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.5 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Bismuth 211 ^f | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|-------|
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Bismuth 212 | 1.82 | | | pCi/g | 16-Jun-05 | 0.77 | 0.82 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Bismuth 214 | 1.06 | | | pCi/g | 16-Jun-05 | 0.25 | 0.43 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Cobalt 57 | -0.01 U | | | pCi/g | 16-Jun-05 | 0.033 | 0.057 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Cobalt 60 | -0.023 U | | | pCi/g | 16-Jun-05 | 0.058 | 0.11 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lead 210 | 0.5 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.5 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lead 211 ^g | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lead 212 | 1.6 | | | pCi/g | 16-Jun-05 | 0.28 | 0.2 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lead 214 | 1.03 | | | pCi/g | 16-Jun-05 | 0.24 | 0.18 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Polonium 210 ^h | 0.5 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.5 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Polonium 212 ⁱ | 1.17 | | | pCi/g | 16-Jun-05 | 0.49 | 0.53 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Polonium 214 ^j | 1.06 | | | pCi/g | 16-Jun-05 | 0.24 | 0.21 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Polonium 215 ^k | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Polonium 216 ^l | 1.6 | | | pCi/g | 16-Jun-05 | 0.28 | 0.2 |
| HDXHX1C4 | Soil | BRC-BKG-03A-3-7 | Polonium 218 ^m | 0.952 J | J | k, n | pCi/g | 16-Jun-05 | 0.12 | 0.152 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Potassium 40 | 30.4 | | | pCi/g | 16-Jun-05 | 4.4 | 1.1 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Protactinium 234 | -0.02 U | | | pCi/g | 16-Jun-05 | 0.19 | 0.34 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Radium 223 ⁿ | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Radium 224 ^o | 1.6 | | | pCi/g | 16-Jun-05 | 0.28 | 0.2 |
| HDXHX1C4 | Soil | BRC-BKG-03A-3-7 | Radium 226 | 0.952 J | J | k, n | pCi/g | 16-Jun-05 | 0.12 | 0.152 |
| HDXHX1C5 | Soil | BRC-BKG-03A-3-7 | Radium 228 | 2.29 | | | pCi/g | 16-Jun-05 | 0.25 | 0.491 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thallium 207 ^p | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thallium 208 | 0.6 | | | pCi/g | 16-Jun-05 | 0.16 | 0.12 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 227 | -0.38 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.83 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 228 | 1.85 | | | pCi/g | 16-Jun-05 | 0.44 | 0.22 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 230 | 1.67 | | | pCi/g | 16-Jun-05 | 0.4 | 0.13 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 231 | 0.045 U | | | pCi/g | 16-Jun-05 | 0.061 | 0.081 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 232 | 1.5 | | | pCi/g | 16-Jun-05 | 0.37 | 0.09 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thorium 234 | 1.64 | | | pCi/g | 16-Jun-05 | 0.58 | 1.2 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Uranium 233/234 | 1.16 | U | b | pCi/g | 16-Jun-05 | 0.26 | 0.1 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Uranium 235 | 0.045 U | | | pCi/g | 16-Jun-05 | 0.061 | 0.081 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Uranium 238 | 1.23 | | | pCi/g | 16-Jun-05 | 0.26 | 0.06 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Moisture (%) | 2.2 | | | percent | 16-Jun-05 | | |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Aluminum | 8990 N | | | mg/kg | 16-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Antimony | 0.35 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Arsenic | 3.5 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Barium | 221 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Beryllium | 0.44 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Boron | 6.8 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Calcium | 23900 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Chromium | 6.4 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Cobalt | 6.6 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Copper | 24.2 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Iron | 8890 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lead | 5.7 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Lithium | 11.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Magnesium | 7590 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Manganese | 304 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Molybdenum | 0.76 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Nickel | 13.2 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Palladium | 0.58 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Phosphorus | 1160 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Potassium | 3260 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Selenium | 0.23 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Silicon | 1230 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Sodium | 716 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Strontium | 294 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Thallium | 0.28 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Tin | 0.52 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Titanium | 673 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Tungsten | 2.2 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Uranium | 0.99 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Vanadium | 36.2 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Zinc | 25.5 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132022 | Soil | BRC-BKG-03A-3-7 | Zirconium | 112 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Chloride | 404 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Fluoride | 1 | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Nitrate | 14.9 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Sulfate | 107 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | CEC | 17.1 | | | meq/100g | 16-Jun-05 | | |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | pH (solid) | 8.6 | J | h | none | 16-Jun-05 | | |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Actinium 227 ^d | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Actinium 228 | 2 | | | pCi/g | 16-Jun-05 | 0.7 | 0.42 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Bismuth 210 ^e | 1.6 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Bismuth 211 ^f | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Bismuth 212 | 1.69 | | | pCi/g | 16-Jun-05 | 0.67 | 0.73 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Bismuth 214 | 1.04 | | | pCi/g | 16-Jun-05 | 0.27 | 0.46 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Cobalt 57 | 0.011 U | | | pCi/g | 16-Jun-05 | 0.033 | 0.058 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Cobalt 60 | 0.049 U | | | pCi/g | 16-Jun-05 | 0.063 | 0.14 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lead 210 | 1.6 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lead 211 ^g | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lead 212 | 1.73 | | | pCi/g | 16-Jun-05 | 0.29 | 0.18 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lead 214 | 0.99 | | | pCi/g | 16-Jun-05 | 0.24 | 0.17 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Polonium 210 ^h | 1.6 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.6 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Polonium 212 ⁱ | 1.08 | | | pCi/g | 16-Jun-05 | 0.43 | 0.47 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Polonium 214 ^j | 1.04 | | | pCi/g | 16-Jun-05 | 0.26 | 0.17 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Polonium 215 ^k | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Polonium 216 ^l | 1.73 | | | pCi/g | 16-Jun-05 | 0.29 | 0.18 |
| HDXH11C5 | Soil | BRC-BKG-03A-9-11 | Polonium 218 ^m | 1.22 | J | n | pCi/g | 16-Jun-05 | 0.15 | 0.185 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Potassium 40 | 26 | | | pCi/g | 16-Jun-05 | 3.9 | 1.2 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Protactinium 234 | -0.03 U | | | pCi/g | 16-Jun-05 | 0.18 | 0.31 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Radium 223 ⁿ | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Radium 224 ^o | 1.73 | | | pCi/g | 16-Jun-05 | 0.29 | 0.18 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HDXH11C5 | Soil | BRC-BKG-03A-9-11 | Radium 226 | 1.22 | J | n | pCi/g | 16-Jun-05 | 0.15 | 0.185 |
| HDXH11C6 | Soil | BRC-BKG-03A-9-11 | Radium 228 | 1.75 J | J | k | pCi/g | 16-Jun-05 | 0.21 | 0.489 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thallium 207 ^P | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thallium 208 | 0.5 | | | pCi/g | 16-Jun-05 | 0.13 | 0.11 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 227 | -0.19 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.76 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 228 | 1.81 | | | pCi/g | 16-Jun-05 | 0.48 | 0.25 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 230 | 1.5 | | | pCi/g | 16-Jun-05 | 0.41 | 0.12 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 231 | 0.077 J | U | b | pCi/g | 16-Jun-05 | 0.076 | 0.042 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 232 | 2.1 | | | pCi/g | 16-Jun-05 | 0.5 | 0.09 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thorium 234 | 0.85 U | | | pCi/g | 16-Jun-05 | 0.72 | 1.3 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Uranium 233/234 | 1.56 | | | pCi/g | 16-Jun-05 | 0.32 | 0.08 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Uranium 235 | 0.077 J | J | k | pCi/g | 16-Jun-05 | 0.076 | 0.042 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Uranium 238 | 1.39 | | | pCi/g | 16-Jun-05 | 0.3 | 0.07 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Moisture (%) | 2.2 | | | percent | 16-Jun-05 | | |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Aluminum | 5300 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Antimony | 0.12 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Arsenic | 4.3 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Barium | 136 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Beryllium | 0.44 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Boron | 4.9 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Calcium | 29500 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Chromium | 6.2 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Cobalt | 4.8 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Copper | 14.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Iron | 8100 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lead | 4.8 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Lithium | 11.8 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Magnesium | 6320 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Manganese | 198 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Molybdenum | 0.55 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Nickel | 9.7 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Palladium | 0.51 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Phosphorus | 1260 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Potassium | 1480 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Silicon | 1180 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Sodium | 938 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Strontium | 240 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Thallium | 0.24 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Tin | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Titanium | 483 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Tungsten | 1.2 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Uranium | 0.9 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Vanadium | 28.1 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Zinc | 22.3 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132024 | Soil | BRC-BKG-03A-9-11 | Zirconium | 112 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Chloride | 1.4 B J | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Nitrate | U | UJ | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Nitrite | 0.21 | J | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Sulfate | 3.5 B | U | b | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | CEC | 9.7 | | | meq/100g | 16-Jun-05 | | |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | pH (solid) | 8.7 | J | h | none | 16-Jun-05 | | |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Actinium 227 ^d | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Actinium 228 | 1.37 | | | pCi/g | 16-Jun-05 | 0.62 | 0.43 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Bismuth 211 ^f | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Bismuth 212 | 1.66 | | | pCi/g | 16-Jun-05 | 0.66 | 0.83 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Bismuth 214 | 0.93 | | | pCi/g | 16-Jun-05 | 0.24 | 0.18 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Cobalt 57 | -0.009 U | | | pCi/g | 16-Jun-05 | 0.03 | 0.05 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Cobalt 60 | -0.022 U | | | pCi/g | 16-Jun-05 | 0.062 | 0.11 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lead 210 | 0.5 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lead 211 ^g | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lead 212 | 1.73 | | | pCi/g | 16-Jun-05 | 0.25 | 0.13 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lead 214 | 0.85 | | | pCi/g | 16-Jun-05 | 0.23 | 0.16 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Polonium 210 ^h | 0.5 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Polonium 212 ⁱ | 1.06 | | | pCi/g | 16-Jun-05 | 0.42 | 0.53 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Polonium 214 ^j | 0.93 | | | pCi/g | 16-Jun-05 | 0.24 | 0.18 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Polonium 215 ^k | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Polonium 216 ^l | 1.73 | | | pCi/g | 16-Jun-05 | 0.25 | 0.13 |
| HDXH21C4 | Soil | BRC-BKG-03B-0-0.5 | Polonium 218 ^m | 1.57 | | | pCi/g | 16-Jun-05 | 0.18 | 0.0856 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Potassium 40 | 24.4 | | | pCi/g | 16-Jun-05 | 3.6 | 0.8 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Protactinium 234 | -0.21 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.25 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Radium 223 ⁿ | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Radium 224 ^o | 1.73 | | | pCi/g | 16-Jun-05 | 0.25 | 0.13 |
| HDXH21C4 | Soil | BRC-BKG-03B-0-0.5 | Radium 226 | 1.57 | | | pCi/g | 16-Jun-05 | 0.18 | 0.0856 |
| HDXH21C5 | Soil | BRC-BKG-03B-0-0.5 | Radium 228 | 2.35 | | | pCi/g | 16-Jun-05 | 0.25 | 0.505 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thallium 207 ^p | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thallium 208 | 0.48 | | | pCi/g | 16-Jun-05 | 0.13 | 0.09 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 227 | 0.27 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.82 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 228 | 1.52 | | | pCi/g | 16-Jun-05 | 0.35 | 0.17 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 230 | 0.99 J | J | k | pCi/g | 16-Jun-05 | 0.26 | 0.09 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 231 | 0.03 U | | | pCi/g | 16-Jun-05 | 0.052 | 0.041 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 232 | 1.77 | | | pCi/g | 16-Jun-05 | 0.36 | 0.08 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thorium 234 | 1.2 | | | pCi/g | 16-Jun-05 | 0.65 | 1.1 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Uranium 233/234 | 1.05 | U | b | pCi/g | 16-Jun-05 | 0.25 | 0.06 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Uranium 235 | 0.03 U | | | pCi/g | 16-Jun-05 | 0.052 | 0.041 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Uranium 238 | 1.16 | | | pCi/g | 16-Jun-05 | 0.26 | 0.06 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Moisture (%) | 0.58 | | | percent | 16-Jun-05 | | |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Aluminum | 9570 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Antimony | 0.32 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Arsenic | 4.1 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Barium | 171 | | | mg/kg | 16-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Beryllium | 0.57 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Boron | 5.2 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Calcium | 19200 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Chromium | 9 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Cobalt | 7.5 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Copper | 17 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Iron | 12100 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lead | 9.6 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Lithium | 13.4 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Magnesium | 9550 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Manganese | 430 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Molybdenum | 0.72 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Nickel | 15 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Palladium | 0.29 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Phosphorus | 1460 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Potassium | 2970 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Selenium | 0.33 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Silicon | 2490 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Sodium | 152 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Strontium | 144 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Thallium | 0.43 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Tin | 0.54 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Titanium | 562 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Tungsten | 1.2 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Uranium | 0.8 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Vanadium | 34.5 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Zinc | 35.8 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132025 | Soil | BRC-BKG-03B-0-0.5 | Zirconium | 123 | | | mg/kg | 16-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Chloride | 29.2 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Fluoride | 0.32 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Nitrate | 0.66 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Sulfate | 3240 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | CEC | 12.3 | | | meq/100g | 16-Jun-05 | | |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | pH (solid) | 8.1 | J | h | none | 16-Jun-05 | | |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Actinium 227 ^d | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Actinium 228 | 2.04 | | | pCi/g | 16-Jun-05 | 0.79 | 0.41 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Bismuth 210 ^e | -0.3 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Bismuth 211 ^f | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Bismuth 212 | 1.41 | | | pCi/g | 16-Jun-05 | 0.59 | 1.2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Bismuth 214 | 0.97 | | | pCi/g | 16-Jun-05 | 0.28 | 0.44 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Cobalt 57 | -0.012 U | | | pCi/g | 16-Jun-05 | 0.035 | 0.06 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Cobalt 60 | -0.034 U | | | pCi/g | 16-Jun-05 | 0.057 | 0.098 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lead 210 | -0.3 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lead 211 ^g | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lead 212 | 1.76 | | | pCi/g | 16-Jun-05 | 0.27 | 0.15 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lead 214 | 1.05 | | | pCi/g | 16-Jun-05 | 0.24 | 0.18 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Polonium 210 ^h | -0.3 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Polonium 212 ⁱ | 0.9 | | | pCi/g | 16-Jun-05 | 0.38 | 0.79 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Polonium 214 ^j | 0.97 | | | pCi/g | 16-Jun-05 | 0.28 | 0.19 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Polonium 215 ^k | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Polonium 216 ^l | 1.76 | | | pCi/g | 16-Jun-05 | 0.27 | 0.15 |
| HDXH31DH | Soil | BRC-BKG-03B-4-6 | Polonium 218 ^m | 1.02 | | | pCi/g | 16-Jun-05 | 0.14 | 0.17 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Potassium 40 | 26.5 | | | pCi/g | 16-Jun-05 | 3.9 | 0.6 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Protactinium 234 | -0.09 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.29 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Radium 223 ⁿ | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Radium 224 ^o | 1.76 | | | pCi/g | 16-Jun-05 | 0.27 | 0.15 |
| HDXH31DH | Soil | BRC-BKG-03B-4-6 | Radium 226 | 1.02 | | | pCi/g | 16-Jun-05 | 0.14 | 0.17 |
| HDXH31DJ | Soil | BRC-BKG-03B-4-6 | Radium 228 | 1.85 J | J | k | pCi/g | 16-Jun-05 | 0.22 | 0.443 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thallium 207 ^p | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thallium 208 | 0.57 | | | pCi/g | 16-Jun-05 | 0.14 | 0.12 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 227 | 0.02 U | | | pCi/g | 16-Jun-05 | 0.51 | 0.88 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 228 | 1.93 | | | pCi/g | 16-Jun-05 | 0.35 | 0.1 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 230 | 1.11 | | | pCi/g | 16-Jun-05 | 0.25 | 0.05 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 231 | 0.13 J | U | b | pCi/g | 16-Jun-05 | 0.1 | 0.1 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 232 | 1.53 | | | pCi/g | 16-Jun-05 | 0.31 | 0.07 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thorium 234 | 1.82 | | | pCi/g | 16-Jun-05 | 0.57 | 1 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Uranium 233/234 | 1.23 | J+ | b | pCi/g | 16-Jun-05 | 0.28 | 0.12 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Uranium 235 | 0.13 J | J | k | pCi/g | 16-Jun-05 | 0.1 | 0.1 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Uranium 238 | 1.17 | | | pCi/g | 16-Jun-05 | 0.27 | 0.08 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Moisture (%) | 4.8 | | | percent | 16-Jun-05 | | |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Aluminum | 6730 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Antimony | 0.2 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Arsenic | 4 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Barium | 177 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Beryllium | 0.44 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Boron | 8.3 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Calcium | 18100 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Chromium | 6.2 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Cobalt | 6 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Copper | 14.4 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Iron | 9780 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lead | 6 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Lithium | 12.1 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Magnesium | 6280 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Manganese | 270 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Molybdenum | 0.62 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Nickel | 10.6 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Palladium | 0.46 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Phosphorus | 1110 N | | | mg/kg | 16-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Potassium | 2390 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Selenium | 0.39 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Silicon | 782 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Sodium | 796 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Strontium | 219 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Thallium | 0.59 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Tin | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Titanium | 531 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Tungsten | 1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Uranium | 0.8 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Vanadium | 34.1 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Zinc | 25.8 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132026 | Soil | BRC-BKG-03B-4-6 | Zirconium | 108 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Chloride | 763 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Fluoride | 0.23 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Nitrate | 2.9 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Sulfate | 4130 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | CEC | 16.1 | | | meq/100g | 16-Jun-05 | | |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | pH (solid) | 8 | J | h | none | 16-Jun-05 | | |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Actinium 227 ^d | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Actinium 228 | 1.51 | | | pCi/g | 16-Jun-05 | 0.58 | 0.29 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Bismuth 211 ^f | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Bismuth 212 | 0.75 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.9 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Bismuth 214 | 1.09 | | | pCi/g | 16-Jun-05 | 0.24 | 0.4 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Cobalt 57 | -0.002 U | | | pCi/g | 16-Jun-05 | 0.028 | 0.046 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Cobalt 60 | 0.002 U | | | pCi/g | 16-Jun-05 | 0.058 | 0.11 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lead 210 | 0.3 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lead 211 ^g | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lead 212 | 1.43 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lead 214 | 1.14 | | | pCi/g | 16-Jun-05 | 0.22 | 0.14 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Polonium 210 ^h | 0.3 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Polonium 212 ⁱ | 0.48 U | | | pCi/g | 16-Jun-05 | 0.28 | 0.58 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Polonium 214 ^j | 1.09 | | | pCi/g | 16-Jun-05 | 0.24 | 0.14 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Polonium 215 ^k | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Polonium 216 ^l | 1.43 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| HDXH41C5 | Soil | BRC-BKG-03B-9-11 | Polonium 218 ^m | 1.23 | | | pCi/g | 16-Jun-05 | 0.15 | 0.0909 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Potassium 40 | 21 | | | pCi/g | 16-Jun-05 | 3.1 | 5 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Protactinium 234 | -0.01 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.26 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Radium 223 ⁿ | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Radium 224 ^o | 1.43 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| HDXH41C5 | Soil | BRC-BKG-03B-9-11 | Radium 226 | 1.23 | | | pCi/g | 16-Jun-05 | 0.15 | 0.0909 |
| HDXH41C6 | Soil | BRC-BKG-03B-9-11 | Radium 228 | 4.15 | R | e | pCi/g | 16-Jun-05 | 0.38 | 0.737 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thallium 207 ^p | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thallium 208 | 0.49 | | | pCi/g | 16-Jun-05 | 0.13 | 0.09 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 227 | -0.16 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.63 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 228 | 1.47 | | | pCi/g | 16-Jun-05 | 0.35 | 0.27 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 230 | 1.57 | | | pCi/g | 16-Jun-05 | 0.32 | 0.11 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 231 | 0.099 J | U | b | pCi/g | 16-Jun-05 | 0.088 | 0.094 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 232 | 1.52 | | | pCi/g | 16-Jun-05 | 0.31 | 0.09 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thorium 234 | 1.57 | | | pCi/g | 16-Jun-05 | 0.67 | 1.1 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Uranium 233/234 | 1.84 | | | pCi/g | 16-Jun-05 | 0.34 | 0.1 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Uranium 235 | 0.099 J | J | k | pCi/g | 16-Jun-05 | 0.088 | 0.094 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Uranium 238 | 1.46 | | | pCi/g | 16-Jun-05 | 0.3 | 0.09 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Moisture (%) | 3.3 | | | percent | 16-Jun-05 | | |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Aluminum | 6100 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Antimony | 0.15 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Arsenic | 5.7 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Barium | 135 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Beryllium | 0.41 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Boron | 7.7 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Calcium | 44800 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Chromium | 5.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Cobalt | 4.4 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Copper | 12.8 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Iron | 7400 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lead | 4.2 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Lithium | 16.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Magnesium | 10400 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Manganese | 191 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Molybdenum | 0.78 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Nickel | 10.1 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Palladium | 0.99 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Phosphorus | 1050 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Potassium | 1780 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Selenium | 0.27 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Silicon | 683 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Sodium | 1190 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Strontium | 567 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Thallium | 0.21 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Tin | 0.4 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Titanium | 448 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Tungsten | 1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Uranium | 1.1 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Vanadium | 28.3 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Zinc | 20.4 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132027 | Soil | BRC-BKG-03B-9-11 | Zirconium | 102 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Chloride | 1.7 B J | U | b | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 16-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Sulfate | 4.4 B | U | b | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | CEC | 7.3 | | | meq/100g | 16-Jun-05 | | |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | pH (solid) | 8.1 | J | h | none | 16-Jun-05 | | |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Actinium 227 ^d | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Actinium 228 | 2.05 | | | pCi/g | 16-Jun-05 | 0.76 | 0.38 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Bismuth 210 ^e | 2 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.8 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Bismuth 211 ^f | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Bismuth 212 | 0.61 U | | | pCi/g | 16-Jun-05 | 0.55 | 1.1 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Bismuth 214 | 0.93 | | | pCi/g | 16-Jun-05 | 0.27 | 0.47 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Cobalt 57 | 0.025 U | | | pCi/g | 16-Jun-05 | 0.036 | 0.066 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Cobalt 60 | 0.014 U | | | pCi/g | 16-Jun-05 | 0.054 | 0.11 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lead 210 | 2 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.8 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lead 211 ^g | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lead 212 | 1.93 | | | pCi/g | 16-Jun-05 | 0.33 | 0.19 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lead 214 | 1.12 | | | pCi/g | 16-Jun-05 | 0.22 | 0.18 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Polonium 210 ^h | 2 U | | | pCi/g | 16-Jun-05 | 1.4 | 2.8 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Polonium 212 ⁱ | 0.39 U | | | pCi/g | 16-Jun-05 | 0.35 | 0.71 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Polonium 214 ^j | 0.93 | | | pCi/g | 16-Jun-05 | 0.27 | 0.17 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Polonium 215 ^k | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Polonium 216 ^l | 1.93 | | | pCi/g | 16-Jun-05 | 0.33 | 0.19 |
| HDXH51C4 | Soil | BRC-BKG-03C-0-0.5 | Polonium 218 ^m | 1.26 | | | pCi/g | 16-Jun-05 | 0.17 | 0.201 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Potassium 40 | 23.7 | | | pCi/g | 16-Jun-05 | 3.9 | 1.3 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Protactinium 234 | 0.09 U | | | pCi/g | 16-Jun-05 | 0.2 | 0.31 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Radium 223 ⁿ | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Radium 224 ^o | 1.93 | | | pCi/g | 16-Jun-05 | 0.33 | 0.19 |
| HDXH51C4 | Soil | BRC-BKG-03C-0-0.5 | Radium 226 | 1.26 | | | pCi/g | 16-Jun-05 | 0.17 | 0.201 |
| HDXH51C5 | Soil | BRC-BKG-03C-0-0.5 | Radium 228 | 4.67 | R | e | pCi/g | 16-Jun-05 | 0.39 | 0.656 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thallium 207 ^p | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thallium 208 | 0.67 | | | pCi/g | 16-Jun-05 | 0.15 | 0.11 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 227 | 0.13 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.87 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 228 | 2.09 | | | pCi/g | 16-Jun-05 | 0.48 | 0.35 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 230 | 1.55 | | | pCi/g | 16-Jun-05 | 0.35 | 0.13 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 231 | 0.098 J | U | b | pCi/g | 16-Jun-05 | 0.085 | 0.072 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 232 | 2.09 | | | pCi/g | 16-Jun-05 | 0.41 | 0.08 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thorium 234 | 1 U | | | pCi/g | 16-Jun-05 | 1.2 | 1.4 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Uranium 233/234 | 0.84 J | U | b | pCi/g | 16-Jun-05 | 0.23 | 0.09 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Uranium 235 | 0.098 J | J | k | pCi/g | 16-Jun-05 | 0.085 | 0.072 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Uranium 238 | 0.83 J | J | k | pCi/g | 16-Jun-05 | 0.23 | 0.04 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Moisture (%) | 1.2 | | | percent | 16-Jun-05 | | |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Aluminum | 12800 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Antimony | 0.2 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Arsenic | 4.9 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Barium | 215 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Beryllium | 0.84 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Boron | 5.3 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Calcium | 11200 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Chromium | 12.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Cobalt | 9.3 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Copper | 18.7 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Iron | 15500 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lead | 11.9 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Lithium | 17.3 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Magnesium | 9240 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Manganese | 495 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Molybdenum | 0.7 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Nickel | 17.6 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Palladium | 0.27 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Phosphorus | 1300 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Potassium | 3890 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Selenium | 0.34 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Silicon | 3740 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Sodium | 160 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Strontium | 127 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Thallium | 0.63 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Tin | 0.66 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Titanium | 558 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Tungsten | 0.95 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Uranium | 0.86 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Vanadium | 35.5 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Zinc | 48.2 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132028 | Soil | BRC-BKG-03C-0-0.5 | Zirconium | 133 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Chloride | 643 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Fluoride | 0.29 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Nitrate | 86.2 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Sulfate | 125 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | CEC | 9 | | | meq/100g | 16-Jun-05 | | |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | pH (solid) | 8.1 | J | h | none | 16-Jun-05 | | |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Actinium 227 ^d | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Actinium 228 | 1.71 | | | pCi/g | 16-Jun-05 | 0.66 | 0.39 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Bismuth 210 ^e | 0.1 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Bismuth 211 ^f | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Bismuth 212 | 0.79 | | | pCi/g | 16-Jun-05 | 0.47 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Bismuth 214 | 0.9 | | | pCi/g | 16-Jun-05 | 0.22 | 0.36 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Cobalt 57 | -0.025 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.049 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Cobalt 60 | -0.054 U | | | pCi/g | 16-Jun-05 | 0.055 | 0.085 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lead 210 | 0.1 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lead 211 ^g | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lead 212 | 1.61 | | | pCi/g | 16-Jun-05 | 0.24 | 0.12 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lead 214 | 0.88 | | | pCi/g | 16-Jun-05 | 0.19 | 0.16 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Polonium 210 ^h | 0.1 U | | | pCi/g | 16-Jun-05 | 1.1 | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Polonium 212 ⁱ | 0.51 | | | pCi/g | 16-Jun-05 | 0.3 | 0.48 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Polonium 214 ^j | 0.9 | | | pCi/g | 16-Jun-05 | 0.22 | 0.17 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Polonium 215 ^k | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Polonium 216 ^l | 1.61 | | | pCi/g | 16-Jun-05 | 0.24 | 0.12 |
| HDXH61C4 | Soil | BRC-BKG-03C-4-6 | Polonium 218 ^m | 1.09 | | | pCi/g | 16-Jun-05 | 0.14 | 0.0841 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Potassium 40 | 26 | | | pCi/g | 16-Jun-05 | 3.8 | 0.6 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Protactinium 234 | -0.14 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.25 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Radium 223 ⁿ | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Radium 224 ^o | 1.61 | | | pCi/g | 16-Jun-05 | 0.24 | 0.12 |
| HDXH61C4 | Soil | BRC-BKG-03C-4-6 | Radium 226 | 1.09 | | | pCi/g | 16-Jun-05 | 0.14 | 0.0841 |
| HDXH61C5 | Soil | BRC-BKG-03C-4-6 | Radium 228 | 6.42 | R | e | pCi/g | 16-Jun-05 | 0.55 | 0.999 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thallium 207 ^p | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thallium 208 | 0.53 | | | pCi/g | 16-Jun-05 | 0.13 | 0.08 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 227 | 0.13 U | | | pCi/g | 16-Jun-05 | 0.43 | 0.76 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 228 | 2.14 | | | pCi/g | 16-Jun-05 | 0.47 | 0.24 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 230 | 1.7 | | | pCi/g | 16-Jun-05 | 0.39 | 0.11 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 231 | 0.0009 U | | | pCi/g | 16-Jun-05 | 0.041 | 0.091 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 232 | 1.97 | | | pCi/g | 16-Jun-05 | 0.43 | 0.07 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thorium 234 | 0.46 U | | | pCi/g | 16-Jun-05 | 0.62 | 1.1 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Uranium 233/234 | 1.07 | U | b | pCi/g | 16-Jun-05 | 0.26 | 0.12 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Uranium 235 | 0.0009 U | | | pCi/g | 16-Jun-05 | 0.041 | 0.091 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Uranium 238 | 0.98 J | J | k | pCi/g | 16-Jun-05 | 0.24 | 0.08 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Moisture (%) | 3.7 | | | percent | 16-Jun-05 | | |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Aluminum | 7320 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Arsenic | 3.5 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Barium | 217 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Beryllium | 0.5 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Boron | 4.8 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Calcium | 17300 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Chromium | 5 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Cobalt | 6.2 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Copper | 15.4 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Iron | 8940 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lead | 6.5 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Lithium | 10.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Magnesium | 5830 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Manganese | 321 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Molybdenum | 0.58 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Nickel | 11.6 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Niobium | 2.1 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Palladium | 0.45 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Phosphorus | 1540 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Potassium | 2520 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Silicon | 722 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Sodium | 821 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Strontium | 230 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Thallium | 0.59 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Tin | 0.44 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Titanium | 539 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Tungsten | 1.8 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Uranium | 0.78 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Vanadium | 31.1 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Zinc | 24.5 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132029 | Soil | BRC-BKG-03C-4-6 | Zirconium | 124 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Chloride | 1110 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Nitrate | 28.1 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Sulfate | 1440 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | CEC | 13.7 | | | meq/100g | 16-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | pH (solid) | 8 | J | h | none | 16-Jun-05 | | |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Actinium 227 ^d | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Actinium 228 | 1.71 | | | pCi/g | 16-Jun-05 | 0.66 | 0.42 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Bismuth 210 ^e | 1.1 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Bismuth 211 ^f | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Bismuth 212 | 1.59 | | | pCi/g | 16-Jun-05 | 0.58 | 0.73 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Bismuth 214 | 1.24 | | | pCi/g | 16-Jun-05 | 0.28 | 0.2 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Cobalt 57 | 0.001 U | | | pCi/g | 16-Jun-05 | 0.033 | 0.059 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Cobalt 60 | 0.009 U | | | pCi/g | 16-Jun-05 | 0.06 | 0.12 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lead 210 | 1.1 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lead 211 ^g | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lead 212 | 1.64 | | | pCi/g | 16-Jun-05 | 0.25 | 0.14 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lead 214 | 1.62 | | | pCi/g | 16-Jun-05 | 0.31 | 0.17 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Polonium 210 ^h | 1.1 U | | | pCi/g | 16-Jun-05 | 1.3 | 2.3 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Polonium 212 ⁱ | 1.02 | | | pCi/g | 16-Jun-05 | 0.37 | 0.47 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Polonium 214 ^j | 1.24 | | | pCi/g | 16-Jun-05 | 0.28 | 0.2 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Polonium 215 ^k | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Polonium 216 ^l | 1.64 | | | pCi/g | 16-Jun-05 | 0.25 | 0.14 |
| HDXH71C4 | Soil | BRC-BKG-03C-9-11 | Polonium 218 ^m | 1.32 | | | pCi/g | 16-Jun-05 | 0.17 | 0.122 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Potassium 40 | 22.6 | | | pCi/g | 16-Jun-05 | 3.6 | 1 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Protactinium 234 | -0.05 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.29 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Radium 223 ⁿ | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Radium 224 ^o | 1.64 | | | pCi/g | 16-Jun-05 | 0.25 | 0.14 |
| HDXH71C4 | Soil | BRC-BKG-03C-9-11 | Radium 226 | 1.32 | | | pCi/g | 16-Jun-05 | 0.17 | 0.122 |
| HDXH71C5 | Soil | BRC-BKG-03C-9-11 | Radium 228 | 3.1 | R | e | pCi/g | 16-Jun-05 | 0.3 | 0.654 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thallium 207 ^p | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thallium 208 | 0.52 | | | pCi/g | 16-Jun-05 | 0.13 | 0.09 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 227 | -0.27 U | | | pCi/g | 16-Jun-05 | 0.48 | 0.78 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 228 | 1.38 | | | pCi/g | 16-Jun-05 | 0.36 | 0.31 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 230 | 2.24 | | | pCi/g | 16-Jun-05 | 0.4 | 0.11 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 231 | 0.13 J | U | b | pCi/g | 16-Jun-05 | 0.1 | 0.1 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 232 | 1.38 | | | pCi/g | 16-Jun-05 | 0.3 | 0.07 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thorium 234 | 1.05 U | | | pCi/g | 16-Jun-05 | 0.48 | 1.1 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Uranium 233/234 | 2.3 | | | pCi/g | 16-Jun-05 | 0.41 | 0.08 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Uranium 235 | 0.13 J | J | k | pCi/g | 16-Jun-05 | 0.1 | 0.1 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Uranium 238 | 1.95 | | | pCi/g | 16-Jun-05 | 0.37 | 0.07 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Moisture (%) | 4.4 | | | percent | 16-Jun-05 | | |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Aluminum | 6310 N | | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Arsenic | 6 | | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Barium | 175 | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Beryllium | 0.41 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Boron | 8.6 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Calcium | 51900 N | | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Chromium | 4.4 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Cobalt | 4.7 E | J | j | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Copper | 14.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Iron | 6570 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lead | 4.4 | | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Lithium | 24.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Magnesium | 16900 | | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Manganese | 169 NE | J | j | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Molybdenum | 0.51 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Nickel | 11.5 E | J | j | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Niobium | 1.6 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Palladium | 1.2 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Phosphorus | 862 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Potassium | 1810 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Silicon | 902 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Silver | N U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Sodium | 815 | | | mg/kg | 16-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Strontium | 684 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Thallium | U | | | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Tin | 0.37 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Titanium | 414 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Tungsten | 1.6 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Uranium | 1.7 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Vanadium | 28.8 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Zinc | 21.9 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132030 | Soil | BRC-BKG-03C-9-11 | Zirconium | 101 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Chloride | 0.38 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Sulfate | 1.6 B J | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | CEC | 18.4 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | pH (solid) | 8.8 | J | h | none | 14-Jun-05 | | |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Actinium 227 ^d | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Actinium 228 | 1.36 | | | pCi/g | 14-Jun-05 | 0.51 | 0.4 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Bismuth 211 ^f | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Bismuth 212 | 0.46 U | | | pCi/g | 14-Jun-05 | 0.55 | 1.1 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Bismuth 214 | 0.89 | | | pCi/g | 14-Jun-05 | 0.24 | 0.16 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Cobalt 57 | -0.029 U | | | pCi/g | 14-Jun-05 | 0.031 | 0.05 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Cobalt 60 | 0.006 U | | | pCi/g | 14-Jun-05 | 0.049 | 0.1 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lead 210 | 0.8 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lead 211 ^g | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lead 212 | 1.08 | | | pCi/g | 14-Jun-05 | 0.21 | 0.16 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lead 214 | 0.75 | | | pCi/g | 14-Jun-05 | 0.2 | 0.17 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Polonium 210 ^h | 0.8 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Polonium 212 ⁱ | 0.29 U | | | pCi/g | 14-Jun-05 | 0.35 | 0.69 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Polonium 214 ^j | 0.89 | | | pCi/g | 14-Jun-05 | 0.23 | 0.16 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Polonium 215 ^k | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Polonium 216 ^l | 1.08 | | | pCi/g | 14-Jun-05 | 0.21 | 0.16 |
| HDRE11C4 | Soil | BRC-BKG-04A-0-0.5 | Polonium 218 ^m | 1.03 | J | n | pCi/g | 14-Jun-05 | 0.14 | 0.0222 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Potassium 40 | 22 | | | pCi/g | 14-Jun-05 | 3.4 | 1 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Protactinium 234 | -0.23 U | | | pCi/g | 14-Jun-05 | 0.16 | 0.24 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Radium 223 ⁿ | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Radium 224 ^o | 1.08 | | | pCi/g | 14-Jun-05 | 0.21 | 0.16 |
| HDRE11C4 | Soil | BRC-BKG-04A-0-0.5 | Radium 226 | 1.03 | J | n | pCi/g | 14-Jun-05 | 0.14 | 0.0222 |
| HDRE12C5 | Soil | BRC-BKG-04A-0-0.5 | Radium 228 | 1.46 J | U | k, b | pCi/g | 14-Jun-05 | 0.2 | 0.588 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thallium 207 ^p | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thallium 208 | 0.49 | | | pCi/g | 14-Jun-05 | 0.14 | 0.09 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 227 | -0.22 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.7 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 228 | 1.15 | | | pCi/g | 14-Jun-05 | 0.26 | 0.14 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 230 | 0.88 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.07 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 231 | 0.059 J | U | b | pCi/g | 14-Jun-05 | 0.067 | 0.04 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 232 | 1.32 | | | pCi/g | 14-Jun-05 | 0.26 | 0.05 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thorium 234 | 1.05 U | | | pCi/g | 14-Jun-05 | 0.65 | 1.2 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Uranium 233/234 | 0.89 J | U | b | pCi/g | 14-Jun-05 | 0.22 | 0.07 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Uranium 235 | 0.059 J | J | k | pCi/g | 14-Jun-05 | 0.067 | 0.04 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Uranium 238 | 0.77 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.05 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Moisture (%) | 1.5 | | | percent | 14-Jun-05 | | |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Aluminum | 12600 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Arsenic | 2.5 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Barium | 220 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Beryllium | 0.44 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Boron | 3.5 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Calcium | 25800 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Chromium | 6.4 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Cobalt | 11.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Copper | 19.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Iron | 16800 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lead | 7.3 | | | mg/kg | 14-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Lithium | 7.5 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Magnesium | 17500 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Manganese | 544 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Mercury | 0.023 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Molybdenum | 0.32 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Nickel | 16.8 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Niobium | 2.3 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Palladium | 0.57 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Phosphorus | 1810 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Potassium | 1500 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Silicon | 573 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Sodium | 515 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Strontium | 249 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Thallium | 1.5 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Tin | 0.58 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Titanium | 702 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Tungsten | 2.5 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Uranium | 0.89 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Vanadium | 54.2 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Zinc | 42.2 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308004 | Soil | BRC-BKG-04A-0-0.5 | Zirconium | 146 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Chloride | 2.7 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Fluoride | 0.76 B J | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Nitrate | 0.22 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Sulfate | 15.1 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | CEC | 14.9 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | pH (solid) | 9 | J | h | none | 14-Jun-05 | | |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Actinium 227 ^d | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|-------|-------------|------------------------|-------|
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Actinium 228 | 1.24 | | | pCi/g | 14-Jun-05 | 0.51 | 0.35 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Bismuth 210 ^e | -0.2 U | | | pCi/g | 14-Jun-05 | 1 | 1.8 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Bismuth 211 ^f | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Bismuth 212 | 0.72 | | | pCi/g | 14-Jun-05 | 0.56 | 0.64 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Bismuth 214 | 0.7 | | | pCi/g | 14-Jun-05 | 0.2 | 0.3 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Cobalt 57 | 0.005 U | | | pCi/g | 14-Jun-05 | 0.025 | 0.043 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Cobalt 60 | -0.013 U | | | pCi/g | 14-Jun-05 | 0.049 | 0.088 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lead 210 | -0.2 U | | | pCi/g | 14-Jun-05 | 1 | 1.8 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lead 211 ^g | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lead 212 | 1.25 | | | pCi/g | 14-Jun-05 | 0.19 | 0.12 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lead 214 | 0.77 | | | pCi/g | 14-Jun-05 | 0.17 | 0.14 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Polonium 210 ^h | -0.2 U | | | pCi/g | 14-Jun-05 | 1 | 1.8 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Polonium 212 ⁱ | 0.46 | | | pCi/g | 14-Jun-05 | 0.36 | 0.41 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Polonium 214 ^j | 0.7 | | | pCi/g | 14-Jun-05 | 0.2 | 0.15 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Polonium 215 ^k | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Polonium 216 ^l | 1.25 | | | pCi/g | 14-Jun-05 | 0.19 | 0.12 |
| HDRE61C4 | Soil | BRC-BKG-04A-4-6 | Polonium 218 ^m | 0.577 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.215 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Potassium 40 | 21.9 | | | pCi/g | 14-Jun-05 | 3.1 | 0.8 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Protactinium 234 | -0.16 U | | | pCi/g | 14-Jun-05 | 0.13 | 0.21 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Radium 223 ⁿ | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Radium 224 ^o | 1.25 | | | pCi/g | 14-Jun-05 | 0.19 | 0.12 |
| HDRE61C4 | Soil | BRC-BKG-04A-4-6 | Radium 226 | 0.577 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.215 |
| HDRE62C5 | Soil | BRC-BKG-04A-4-6 | Radium 228 | 1.59 J | U | k, b | pCi/g | 14-Jun-05 | 0.22 | 0.648 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thallium 207 ^p | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thallium 208 | 0.4 | | | pCi/g | 14-Jun-05 | 0.12 | 0.07 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 227 | -0.11 U | | | pCi/g | 14-Jun-05 | 0.36 | 0.62 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 228 | 1.33 | | | pCi/g | 14-Jun-05 | 0.29 | 0.16 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 230 | 0.92 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.1 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 231 | 0.043 J | U | b | pCi/g | 14-Jun-05 | 0.057 | 0.038 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 232 | 1.3 | | | pCi/g | 14-Jun-05 | 0.27 | 0.07 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thorium 234 | 0.32 U | | | pCi/g | 14-Jun-05 | 0.66 | 1 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Uranium 233/234 | 0.9 J | U | b | pCi/g | 14-Jun-05 | 0.22 | 0.08 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Uranium 235 | 0.043 J | J | k | pCi/g | 14-Jun-05 | 0.057 | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Uranium 238 | 1.14 | | | pCi/g | 14-Jun-05 | 0.25 | 0.07 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Moisture (%) | 4.2 | | | percent | 14-Jun-05 | | |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Aluminum | 14700 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Antimony | N U | | | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Arsenic | 3.1 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Barium | 272 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Beryllium | 0.5 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Boron | 3.5 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Calcium | 20600 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Chromium | 7.1 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Cobalt | 12.5 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Copper | 22.7 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Iron | 18600 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lead | 7.2 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Lithium | 9.9 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Magnesium | 12900 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Manganese | 618 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Mercury | 0.028 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Molybdenum | 0.38 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Nickel | 18.7 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Niobium | 1.6 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Palladium | 0.81 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Phosphorus | 1900 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Potassium | 1490 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Silicon | 538 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Sodium | 730 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Strontium | 441 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Thallium | 1.8 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Tin | 0.68 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Titanium | 958 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Tungsten | 1.8 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Vanadium | 59.1 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Zinc | 43.8 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308005 | Soil | BRC-BKG-04A-4-6 | Zirconium | 175 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Chloride | 16 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Fluoride | 2.5 J | J+ | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Nitrate | 3.4 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Sulfate | 49.3 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | CEC | 15.6 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | pH (solid) | 8.9 | J | h | none | 14-Jun-05 | | |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Actinium 227 ^d | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Actinium 228 | 1.48 | | | pCi/g | 14-Jun-05 | 0.54 | 0.32 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Bismuth 210 ^e | 2.2 | | | pCi/g | 14-Jun-05 | 1.6 | 1.5 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Bismuth 211 ^f | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Bismuth 212 | 0.75 U | | | pCi/g | 14-Jun-05 | 0.52 | 1 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Bismuth 214 | 0.79 | | | pCi/g | 14-Jun-05 | 0.21 | 0.37 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Cobalt 57 | -0.005 U | | | pCi/g | 14-Jun-05 | 0.027 | 0.045 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Cobalt 60 | 0.026 U | | | pCi/g | 14-Jun-05 | 0.049 | 0.11 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lead 210 | 2.2 | | | pCi/g | 14-Jun-05 | 1.6 | 1.5 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lead 211 ^g | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lead 212 | 1.22 | | | pCi/g | 14-Jun-05 | 0.2 | 0.13 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lead 214 | 0.73 | | | pCi/g | 14-Jun-05 | 0.18 | 0.14 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Polonium 210 ^h | 2.2 | | | pCi/g | 14-Jun-05 | 1.6 | 1.5 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Polonium 212 ⁱ | 0.48 U | | | pCi/g | 14-Jun-05 | 0.33 | 0.66 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Polonium 214 ^j | 0.79 | | | pCi/g | 14-Jun-05 | 0.21 | 0.18 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Polonium 215 ^k | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Polonium 216 ^l | 1.22 | | | pCi/g | 14-Jun-05 | 0.2 | 0.13 |
| HDRF31C4 | Soil | BRC-BKG-04A-9-11 | Polonium 218 ^m | 0.507 J | J | k, n | pCi/g | 14-Jun-05 | 0.095 | 0.185 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Potassium 40 | 24.5 | | | pCi/g | 14-Jun-05 | 3.5 | 0.8 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Protactinium 234 | -0.11 U | | | pCi/g | 14-Jun-05 | 0.13 | 0.22 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Radium 223 ⁿ | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Radium 224 ^o | 1.22 | | | pCi/g | 14-Jun-05 | 0.2 | 0.13 |
| HDRF31C4 | Soil | BRC-BKG-04A-9-11 | Radium 226 | 0.507 J | J | k, n | pCi/g | 14-Jun-05 | 0.095 | 0.185 |
| HDRF32C5 | Soil | BRC-BKG-04A-9-11 | Radium 228 | 2.02 | | | pCi/g | 14-Jun-05 | 0.23 | 0.509 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thallium 207 ^p | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thallium 208 | 0.45 | | | pCi/g | 14-Jun-05 | 0.13 | 0.09 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 227 | -0.25 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.67 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 228 | 1.43 | | | pCi/g | 14-Jun-05 | 0.29 | 0.1 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 230 | 0.98 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.05 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 231 | 0.076 U | | | pCi/g | 14-Jun-05 | 0.091 | 0.12 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 232 | 1.42 | | | pCi/g | 14-Jun-05 | 0.28 | 0.06 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thorium 234 | 0.46 U | | | pCi/g | 14-Jun-05 | 0.69 | 1.1 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Uranium 233/234 | 1.07 | U | b | pCi/g | 14-Jun-05 | 0.28 | 0.09 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Uranium 235 | 0.076 U | | | pCi/g | 14-Jun-05 | 0.091 | 0.12 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Uranium 238 | 1.05 | | | pCi/g | 14-Jun-05 | 0.28 | 0.09 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Moisture (%) | 6.1 | | | percent | 14-Jun-05 | | |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Aluminum | 12500 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Arsenic | 3.2 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Barium | 191 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Beryllium | 0.43 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Calcium | 32300 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Chromium | 7.5 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Cobalt | 11.6 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Copper | 19.8 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Iron | 16800 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lead | 6.3 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Lithium | 10.1 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Magnesium | 12700 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Manganese | 566 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Mercury | 0.11 | | | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Molybdenum | 0.46 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Nickel | 18 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Niobium | N U | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Palladium | 0.55 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Phosphorus | 1800 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Potassium | 1180 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Silicon | 527 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Sodium | 668 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Strontium | 267 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Thallium | 1.5 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Tin | 0.5 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Titanium | 701 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Uranium | 0.94 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Vanadium | 49.2 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Zinc | 43 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308011 | Soil | BRC-BKG-04A-9-11 | Zirconium | 164 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Chloride | 1.1 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Sulfate | 3.3 B | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | CEC | 17.4 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | pH (solid) | 8.8 | J | h | none | 14-Jun-05 | | |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Actinium 227 ^d | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Actinium 228 | 1.79 | | | pCi/g | 14-Jun-05 | 0.64 | 0.43 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Bismuth 211 ^f | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|-------|
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Bismuth 212 | 1.16 | | | pCi/g | 14-Jun-05 | 0.52 | 1.1 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Bismuth 214 | 0.6 | | | pCi/g | 14-Jun-05 | 0.21 | 0.39 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Cobalt 57 | -0.011 U | | | pCi/g | 14-Jun-05 | 0.028 | 0.048 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Cobalt 60 | -0.009 U | | | pCi/g | 14-Jun-05 | 0.045 | 0.088 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lead 210 | 0.3 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lead 211 ^g | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lead 212 | 1.34 | | | pCi/g | 14-Jun-05 | 0.23 | 0.16 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lead 214 | 0.77 | | | pCi/g | 14-Jun-05 | 0.22 | 0.15 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Polonium 210 ^h | 0.3 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Polonium 212 ⁱ | 0.75 | | | pCi/g | 14-Jun-05 | 0.33 | 0.73 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Polonium 214 ^j | 0.6 | | | pCi/g | 14-Jun-05 | 0.21 | 0.17 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Polonium 215 ^k | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Polonium 216 ^l | 1.34 | | | pCi/g | 14-Jun-05 | 0.23 | 0.16 |
| HDRF41C4 | Soil | BRC-BKG-04B-0-0.5 | Polonium 218 ^m | 0.893 J | J | k, n | pCi/g | 14-Jun-05 | 0.13 | 0.138 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Potassium 40 | 22.5 | | | pCi/g | 14-Jun-05 | 3.5 | 1.2 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Protactinium 234 | -0.18 U | | | pCi/g | 14-Jun-05 | 0.15 | 0.24 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Radium 223 ⁿ | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Radium 224 ^o | 1.34 | | | pCi/g | 14-Jun-05 | 0.23 | 0.16 |
| HDRF41C4 | Soil | BRC-BKG-04B-0-0.5 | Radium 226 | 0.893 J | J | k, n | pCi/g | 14-Jun-05 | 0.13 | 0.138 |
| HDRF42C5 | Soil | BRC-BKG-04B-0-0.5 | Radium 228 | 1.78 J | U | k, b | pCi/g | 14-Jun-05 | 0.22 | 0.463 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thallium 207 ^p | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thallium 208 | 0.48 | | | pCi/g | 14-Jun-05 | 0.12 | 0.09 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 227 | 0.06 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.74 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 228 | 1.85 | | | pCi/g | 14-Jun-05 | 0.38 | 0.25 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 230 | 0.77 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.1 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 231 | 0.036 U | | | pCi/g | 14-Jun-05 | 0.088 | 0.14 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 232 | 1.77 | | | pCi/g | 14-Jun-05 | 0.33 | 0.09 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thorium 234 | 0.81 U | | | pCi/g | 14-Jun-05 | 0.63 | 1.1 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Uranium 233/234 | 0.76 J | U | b | pCi/g | 14-Jun-05 | 0.26 | 0.16 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Uranium 235 | 0.036 U | | | pCi/g | 14-Jun-05 | 0.088 | 0.14 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Uranium 238 | 1.02 | | | pCi/g | 14-Jun-05 | 0.29 | 0.11 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Moisture (%) | 1.6 | | | percent | 14-Jun-05 | | |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Aluminum | 13400 NE | J | j | mg/kg | 14-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Arsenic | 2.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Barium | 218 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Beryllium | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Calcium | 20600 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Chromium | 7 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Cobalt | 11.9 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Copper | 19.6 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Iron | 18300 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lead | 8.2 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Lithium | 8.9 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Magnesium | 12200 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Manganese | 550 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Mercury | 0.032 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Molybdenum | 0.32 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Nickel | 16.8 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Palladium | 0.73 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Phosphorus | 1990 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Potassium | 1540 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Silicon | 675 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Sodium | 372 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Strontium | 402 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Thallium | 1.7 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Tin | 0.61 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Titanium | 936 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Tungsten | 0.93 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Uranium | 0.94 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Vanadium | 55.3 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Zinc | 43.1 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308012 | Soil | BRC-BKG-04B-0-0.5 | Zirconium | 168 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Chloride | 2.1 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Fluoride | 0.89 B J | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Nitrate | 0.35 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Sulfate | 49.2 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | CEC | 19.4 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | pH (solid) | 9.1 | J | h | none | 14-Jun-05 | | |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Actinium 227 ^d | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Actinium 228 | 2.04 | | | pCi/g | 14-Jun-05 | 0.7 | 0.36 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Bismuth 211 ^f | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Bismuth 212 | 1.32 | | | pCi/g | 14-Jun-05 | 0.58 | 0.71 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Bismuth 214 | 0.64 | | | pCi/g | 14-Jun-05 | 0.19 | 0.35 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Cobalt 57 | -0.006 U | | | pCi/g | 14-Jun-05 | 0.031 | 0.053 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Cobalt 60 | -0.026 U | | | pCi/g | 14-Jun-05 | 0.043 | 0.074 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lead 210 | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lead 211 ^g | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lead 212 | 1.2 | | | pCi/g | 14-Jun-05 | 0.23 | 0.2 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lead 214 | 0.86 | | | pCi/g | 14-Jun-05 | 0.19 | 0.13 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Polonium 210 ^h | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Polonium 212 ⁱ | 0.85 | | | pCi/g | 14-Jun-05 | 0.37 | 0.45 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Polonium 214 ^j | 0.64 | | | pCi/g | 14-Jun-05 | 0.19 | 0.17 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Polonium 215 ^k | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Polonium 216 ^l | 1.2 | | | pCi/g | 14-Jun-05 | 0.23 | 0.2 |
| HDRDQ1F3 | Soil | BRC-BKG-04B-4-6 | Polonium 218 ^m | 1.04 | J | n | pCi/g | 14-Jun-05 | 0.14 | 0.199 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Potassium 40 | 21.8 | | | pCi/g | 14-Jun-05 | 3.3 | 0.9 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Protactinium 234 | 0.007 U | | | pCi/g | 14-Jun-05 | 0.15 | 0.26 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Radium 223 ⁿ | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Radium 224 ^o | 1.2 | | | pCi/g | 14-Jun-05 | 0.23 | 0.2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HDRDQ1F3 | Soil | BRC-BKG-04B-4-6 | Radium 226 | 1.04 | J | n | pCi/g | 14-Jun-05 | 0.14 | 0.199 |
| HDRDQ2F4 | Soil | BRC-BKG-04B-4-6 | Radium 228 | 1.35 J | U | k, b | pCi/g | 14-Jun-05 | 0.21 | 0.69 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thallium 207 ^P | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thallium 208 | 0.43 | | | pCi/g | 14-Jun-05 | 0.11 | 0.11 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 227 | -0.15 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.66 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 228 | 1.63 | | | pCi/g | 14-Jun-05 | 0.31 | 0.09 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 230 | 0.95 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.05 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 231 | 0.001 U | | | pCi/g | 14-Jun-05 | 0.042 | 0.094 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 232 | 1.5 | | | pCi/g | 14-Jun-05 | 0.29 | 0.06 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thorium 234 | 0.77 U | | | pCi/g | 14-Jun-05 | 0.64 | 1.1 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Uranium 233/234 | 0.76 J | U | b | pCi/g | 14-Jun-05 | 0.21 | 0.08 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Uranium 235 | 0.001 U | | | pCi/g | 14-Jun-05 | 0.042 | 0.094 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Uranium 238 | 0.82 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.07 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Moisture (%) | 4.1 | | | percent | 14-Jun-05 | | |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Aluminum | 11800 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Arsenic | 2.8 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Barium | 183 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Beryllium | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Boron | 4.5 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Calcium | 20800 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Chromium | 8.1 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Cobalt | 10.8 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Copper | 17.6 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Iron | 18800 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lead | 7.7 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Lithium | 9.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Magnesium | 11100 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Manganese | 488 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Mercury | 0.021 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Molybdenum | 0.3 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Nickel | 15.5 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Niobium | 2.3 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Palladium | 0.46 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Phosphorus | 2010 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Potassium | 1060 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Silicon | 530 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Sodium | 660 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Strontium | 219 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Thallium | 1.4 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Tin | 0.57 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Titanium | 704 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Uranium | 7.6 | R | j | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Vanadium | 50 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Zinc | 42.8 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308001 | Soil | BRC-BKG-04B-4-6 | Zirconium | 167 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Chloride | 6.3 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Fluoride | 1.5 J | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Nitrate | 0.62 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Sulfate | 160 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | CEC | 13.2 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | pH (solid) | 8.6 | J | h | none | 14-Jun-05 | | |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Actinium 227 ^d | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Actinium 228 | 1.55 | | | pCi/g | 14-Jun-05 | 0.6 | 0.32 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Bismuth 210 ^e | 0.81 U | | | pCi/g | 14-Jun-05 | 0.91 | 1.8 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Bismuth 211 ^f | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Bismuth 212 | 0.64 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.94 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Bismuth 214 | 0.67 | | | pCi/g | 14-Jun-05 | 0.19 | 0.16 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Cobalt 57 | -0.032 U | | | pCi/g | 14-Jun-05 | 0.028 | 0.042 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Cobalt 60 | -0.02 U | | | pCi/g | 14-Jun-05 | 0.05 | 0.09 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lead 210 | 0.81 U | | | pCi/g | 14-Jun-05 | 0.91 | 1.8 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lead 211 ^g | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lead 212 | 1.29 | | | pCi/g | 14-Jun-05 | 0.22 | 0.16 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lead 214 | 0.69 | | | pCi/g | 14-Jun-05 | 0.16 | 0.14 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Polonium 210 ^h | 0.81 U | | | pCi/g | 14-Jun-05 | 0.91 | 1.8 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Polonium 212 ⁱ | 0.41 U | | | pCi/g | 14-Jun-05 | 0.3 | 0.6 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Polonium 214 ^j | 0.67 | | | pCi/g | 14-Jun-05 | 0.19 | 0.16 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Polonium 215 ^k | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Polonium 216 ^l | 1.29 | | | pCi/g | 14-Jun-05 | 0.22 | 0.16 |
| HDRD51C4 | Soil | BRC-BKG-04B-9-11 | Polonium 218 ^m | 0.635 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.165 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Potassium 40 | 24.1 | | | pCi/g | 14-Jun-05 | 3.4 | 0.7 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Protactinium 234 | -0.09 U | | | pCi/g | 14-Jun-05 | 0.13 | 0.21 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Radium 223 ⁿ | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Radium 224 ^o | 1.29 | | | pCi/g | 14-Jun-05 | 0.22 | 0.16 |
| HDRD51C4 | Soil | BRC-BKG-04B-9-11 | Radium 226 | 0.635 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.165 |
| HDRD52C5 | Soil | BRC-BKG-04B-9-11 | Radium 228 | 1.91 J | U | k, b | pCi/g | 14-Jun-05 | 0.24 | 0.687 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thallium 207 ^p | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thallium 208 | 0.39 | | | pCi/g | 14-Jun-05 | 0.1 | 0.08 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 227 | 0.12 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.63 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 228 | 1.27 | | | pCi/g | 14-Jun-05 | 0.33 | 0.28 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 230 | 0.81 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.1 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 231 | 0.087 J | U | b | pCi/g | 14-Jun-05 | 0.078 | 0.081 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 232 | 1.52 | | | pCi/g | 14-Jun-05 | 0.3 | 0.06 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thorium 234 | 1.11 | | | pCi/g | 14-Jun-05 | 0.87 | 0.92 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Uranium 233/234 | 0.85 J | U | b | pCi/g | 14-Jun-05 | 0.22 | 0.1 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Uranium 235 | 0.087 J | J | k | pCi/g | 14-Jun-05 | 0.078 | 0.081 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Uranium 238 | 0.85 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.06 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Moisture (%) | 4.8 | | | percent | 14-Jun-05 | | |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Aluminum | 13300 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Arsenic | 3.1 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Barium | 245 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Beryllium | 0.5 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Boron | 5 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Calcium | 24500 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Chromium | 9.1 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Cobalt | 16.3 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Copper | 22.1 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Iron | 19100 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lead | 7.3 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Lithium | 10 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Magnesium | 12500 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Manganese | 641 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Mercury | 0.028 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Molybdenum | 0.6 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Nickel | 20.3 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Niobium | 1.6 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Palladium | 0.71 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Phosphorus | 1960 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Potassium | 1360 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Selenium | 0.26 B | J | g | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Silicon | 535 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Sodium | 784 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Strontium | 406 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Thallium | 1.5 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Tin | 0.63 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Titanium | 758 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Tungsten | 2 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Vanadium | 57.5 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Zinc | 43.4 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308002 | Soil | BRC-BKG-04B-9-11 | Zirconium | 177 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|-------|
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Chloride | U | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Sulfate | 1.6 B J | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | CEC | 16.3 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | pH (solid) | 9 | J | h | none | 14-Jun-05 | | |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Actinium 227 ^d | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Actinium 228 | 2.03 | | | pCi/g | 14-Jun-05 | 0.7 | 0.36 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Bismuth 211 ^f | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Bismuth 212 | 0.69 U | | | pCi/g | 14-Jun-05 | 0.48 | 0.99 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Bismuth 214 | 0.69 | | | pCi/g | 14-Jun-05 | 0.21 | 0.38 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Cobalt 57 | 0.01 U | | | pCi/g | 14-Jun-05 | 0.03 | 0.055 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Cobalt 60 | 0.026 U | | | pCi/g | 14-Jun-05 | 0.049 | 0.11 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lead 210 | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lead 211 ^g | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lead 212 | 1.08 | | | pCi/g | 14-Jun-05 | 0.23 | 0.14 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lead 214 | 0.81 | | | pCi/g | 14-Jun-05 | 0.22 | 0.16 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Polonium 210 ^h | 0.2 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Polonium 212 ⁱ | 0.44 U | | | pCi/g | 14-Jun-05 | 0.3 | 0.63 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Polonium 214 ^j | 0.69 | | | pCi/g | 14-Jun-05 | 0.21 | 0.18 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Polonium 215 ^k | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Polonium 216 ^l | 1.08 | | | pCi/g | 14-Jun-05 | 0.23 | 0.14 |
| HDRE91C4 | Soil | BRC-BKG-04C-0-0.5 | Polonium 218 ^m | 0.494 J | J | k | pCi/g | 14-Jun-05 | 0.097 | 0.196 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Potassium 40 | 24 | | | pCi/g | 14-Jun-05 | 3.6 | 0.5 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Protactinium 234 | -0.03 U | | | pCi/g | 14-Jun-05 | 0.17 | 0.29 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Radium 223 ⁿ | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Radium 224 ^o | 1.08 | | | pCi/g | 14-Jun-05 | 0.23 | 0.14 |
| HDRE91C4 | Soil | BRC-BKG-04C-0-0.5 | Radium 226 | 0.494 J | J | k | pCi/g | 14-Jun-05 | 0.097 | 0.196 |
| HDRE91C5 | Soil | BRC-BKG-04C-0-0.5 | Radium 228 | 1.6 J | R | k, e | pCi/g | 14-Jun-05 | 0.24 | 0.764 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thallium 207 ^p | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thallium 208 | 0.41 | | | pCi/g | 14-Jun-05 | 0.13 | 0.1 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 227 | -0.27 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.68 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 228 | 1.76 | | | pCi/g | 14-Jun-05 | 0.33 | 0.15 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 230 | 0.86 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.06 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 231 | 0.061 J | U | b | pCi/g | 14-Jun-05 | 0.068 | 0.041 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 232 | 1.34 | | | pCi/g | 14-Jun-05 | 0.27 | 0.07 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thorium 234 | 1.68 | | | pCi/g | 14-Jun-05 | 0.74 | 1.2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Uranium 233/234 | 0.85 J | U | b | pCi/g | 14-Jun-05 | 0.22 | 0.06 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Uranium 235 | 0.061 J | J | k | pCi/g | 14-Jun-05 | 0.068 | 0.041 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Uranium 238 | 0.84 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.06 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Moisture (%) | 1.5 | | | percent | 14-Jun-05 | | |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Aluminum | 13300 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Arsenic | 2.5 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Barium | 445 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Beryllium | 0.41 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Boron | 3.8 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Calcium | 19500 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Chromium | 7.7 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Cobalt | 14.6 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Copper | 23.8 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Iron | 16600 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lead | 6 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Lithium | 8.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Magnesium | 13400 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Manganese | 593 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Mercury | 0.029 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Molybdenum | 0.36 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Nickel | 30 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Palladium | 1.5 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Phosphorus | 1890 N | | | mg/kg | 14-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Potassium | 1820 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Silicon | 562 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Sodium | 279 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Strontium | 808 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Thallium | 1.3 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Tin | 0.65 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Titanium | 779 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Vanadium | 57.3 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Zinc | 38.5 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308006 | Soil | BRC-BKG-04C-0-0.5 | Zirconium | 176 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Chloride | 0.74 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Sulfate | 5.2 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | CEC | 15.3 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | pH (solid) | 8.7 | R | h | none | 14-Jun-05 | | |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Actinium 227 ^d | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Actinium 228 | 1.32 | | | pCi/g | 14-Jun-05 | 0.53 | 0.33 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Bismuth 210 ^e | 0.06 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Bismuth 211 ^f | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Bismuth 212 | 0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.9 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Bismuth 214 | 0.74 | | | pCi/g | 14-Jun-05 | 0.21 | 0.38 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Cobalt 57 | 0.008 U | | | pCi/g | 14-Jun-05 | 0.03 | 0.054 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Cobalt 60 | -0.053 U | | | pCi/g | 14-Jun-05 | 0.059 | 0.095 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lead 210 | 0.06 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lead 211 ^g | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lead 212 | 1.2 | | | pCi/g | 14-Jun-05 | 0.21 | 0.17 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lead 214 | 0.82 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 210 ^h | 0.06 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 212 ⁱ | 0.19 U | | | pCi/g | 14-Jun-05 | 0.3 | 0.57 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 214 ^j | 0.74 | | | pCi/g | 14-Jun-05 | 0.21 | 0.16 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 215 ^k | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 216 ^l | 1.2 | | | pCi/g | 14-Jun-05 | 0.21 | 0.17 |
| HDRFQ1C4 | Soil | BRC-BKG-04C1-0-0.5 | Polonium 218 ^m | 0.595 J | J | k | pCi/g | 14-Jun-05 | 0.1 | 0.214 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Potassium 40 | 22.8 | | | pCi/g | 14-Jun-05 | 3.5 | 1.1 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Protactinium 234 | -0.01 U | | | pCi/g | 14-Jun-05 | 0.15 | 0.27 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Radium 223 ⁿ | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Radium 224 ^o | 1.2 | | | pCi/g | 14-Jun-05 | 0.21 | 0.17 |
| HDRFQ1C4 | Soil | BRC-BKG-04C1-0-0.5 | Radium 226 | 0.595 J | J | k | pCi/g | 14-Jun-05 | 0.1 | 0.214 |
| HDRFQ2C5 | Soil | BRC-BKG-04C1-0-0.5 | Radium 228 | 1.82 J | U | k, b | pCi/g | 14-Jun-05 | 0.22 | 0.495 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thallium 207 ^p | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thallium 208 | 0.49 | | | pCi/g | 14-Jun-05 | 0.12 | 0.08 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 227 | -0.42 U | | | pCi/g | 14-Jun-05 | 0.42 | 0.66 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 228 | 1.41 | | | pCi/g | 14-Jun-05 | 0.29 | 0.14 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 230 | 0.82 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.08 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 231 | 0.032 U | | | pCi/g | 14-Jun-05 | 0.061 | 0.095 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 232 | 1.43 | | | pCi/g | 14-Jun-05 | 0.29 | 0.07 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thorium 234 | 1.36 | | | pCi/g | 14-Jun-05 | 0.68 | 1.1 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Uranium 233/234 | 0.68 J | U | b | pCi/g | 14-Jun-05 | 0.21 | 0.12 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Uranium 235 | 0.032 U | | | pCi/g | 14-Jun-05 | 0.061 | 0.095 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Uranium 238 | 0.81 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.09 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Moisture (%) | 0.79 | | | percent | 14-Jun-05 | | |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Aluminum | 10600 N | | | mg/kg | 14-Jun-05 | | 2 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Antimony | 0.28 BN | J- | e, g | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Arsenic | 3.4 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Barium | 157 | | | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Beryllium | 0.65 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Boron | 5.6 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Cadmium | U | | | mg/kg | 14-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Calcium | 23400 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Chromium | 11.9 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Cobalt | 9.5 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Copper | 15.7 | | | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Iron | 19700 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lead | 9.4 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Lithium | 10.8 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Magnesium | 12100 | | | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Manganese | 481 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Mercury | 0.034 | | | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Molybdenum | 0.36 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Nickel | 15.3 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Niobium | 2.8 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Palladium | 0.37 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Phosphorus | 1730 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Potassium | 1720 | | | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Selenium | 0.39 B | J | g | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Silicon | 1210 N | | | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Silver | N U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Sodium | 309 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Strontium | 165 N | J- | e | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Thallium | 0.5 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Tin | 0.5 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Titanium | 510 N | | | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Tungsten | 1.6 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Uranium | 0.62 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Vanadium | 43.9 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Zinc | 49.1 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308010 | Soil | BRC-BKG-04C1-0-0.5 | Zirconium | 119 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Chloride | 1.8 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Fluoride | 1 B J | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Nitrate | 0.71 | J | h | mg/kg | 14-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|-------|
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Sulfate | 7.5 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | CEC | 14.7 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | pH (solid) | 9 | J | h | none | 14-Jun-05 | | |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Actinium 227 ^d | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Actinium 228 | 1.94 | | | pCi/g | 14-Jun-05 | 0.62 | 0.39 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Bismuth 210 ^e | -0.3 U | | | pCi/g | 14-Jun-05 | 0.94 | 1.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Bismuth 211 ^f | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Bismuth 212 | 0.53 U | | | pCi/g | 14-Jun-05 | 0.53 | 0.55 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Bismuth 214 | 0.66 | | | pCi/g | 14-Jun-05 | 0.18 | 0.33 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Cobalt 57 | -0.027 U | | | pCi/g | 14-Jun-05 | 0.027 | 0.042 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Cobalt 60 | 0.04 U | | | pCi/g | 14-Jun-05 | 0.051 | 0.11 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lead 210 | -0.3 U | | | pCi/g | 14-Jun-05 | 0.94 | 1.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lead 211 ^g | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lead 212 | 1.37 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lead 214 | 0.74 | | | pCi/g | 14-Jun-05 | 0.18 | 0.14 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Polonium 210 ^h | -0.3 U | | | pCi/g | 14-Jun-05 | 0.94 | 1.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Polonium 212 ⁱ | 0.34 U | | | pCi/g | 14-Jun-05 | 0.34 | 0.35 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Polonium 214 ^j | 0.66 | | | pCi/g | 14-Jun-05 | 0.18 | 0.13 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Polonium 215 ^k | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Polonium 216 ^l | 1.37 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| HDRFE1C4 | Soil | BRC-BKG-04C-4-6 | Polonium 218 ^m | 0.817 J | J | k, n | pCi/g | 14-Jun-05 | 0.11 | 0.134 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Potassium 40 | 24.1 | | | pCi/g | 14-Jun-05 | 3.5 | 0.8 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Protactinium 234 | -0.07 U | | | pCi/g | 14-Jun-05 | 0.13 | 0.23 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Radium 223 ⁿ | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Radium 224 ^o | 1.37 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| HDRFE1C4 | Soil | BRC-BKG-04C-4-6 | Radium 226 | 0.817 J | J | k, n | pCi/g | 14-Jun-05 | 0.11 | 0.134 |
| HDRFE2C5 | Soil | BRC-BKG-04C-4-6 | Radium 228 | 1.47 J | U | k, b | pCi/g | 14-Jun-05 | 0.2 | 0.597 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thallium 207 ^p | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thallium 208 | 0.48 | | | pCi/g | 14-Jun-05 | 0.11 | 0.08 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 227 | 0.15 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.7 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 228 | 1.4 | | | pCi/g | 14-Jun-05 | 0.32 | 0.16 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 230 | 1.05 | | | pCi/g | 14-Jun-05 | 0.26 | 0.09 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 231 | 0.084 U | | | pCi/g | 14-Jun-05 | 0.085 | 0.1 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 232 | 1.38 | | | pCi/g | 14-Jun-05 | 0.3 | 0.07 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thorium 234 | 1.35 | | | pCi/g | 14-Jun-05 | 0.94 | 0.83 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Uranium 233/234 | 0.76 J | U | b | pCi/g | 14-Jun-05 | 0.21 | 0.11 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Uranium 235 | 0.084 U | | | pCi/g | 14-Jun-05 | 0.085 | 0.1 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Uranium 238 | 1.02 | | | pCi/g | 14-Jun-05 | 0.24 | 0.08 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Moisture (%) | 4.9 | | | percent | 14-Jun-05 | | |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Aluminum | 10900 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Arsenic | 2.9 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Barium | 188 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Beryllium | 0.46 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Calcium | 21300 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Chromium | 7.5 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Cobalt | 10.6 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Copper | 20.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Iron | 18500 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lead | 6.6 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Lithium | 9.8 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Magnesium | 11700 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Manganese | 471 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Mercury | 0.03 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Molybdenum | 0.33 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Nickel | 19 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Niobium | 1.1 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Palladium | 0.42 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Phosphorus | 1870 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Potassium | 1210 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Silicon | 543 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Sodium | 617 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Strontium | 182 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Thallium | 1.8 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Tin | 0.53 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Titanium | 749 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Tungsten | 1.2 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Uranium | 1 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Vanadium | 49.2 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Zinc | 43.2 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308007 | Soil | BRC-BKG-04C-4-6 | Zirconium | 178 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Chloride | 1.6 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Fluoride | 1.6 J | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Nitrate | 1 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Sulfate | 83.5 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | CEC | 10 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | pH (solid) | 8.9 | J | h | none | 14-Jun-05 | | |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Actinium 227 ^d | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Actinium 228 | 1.3 | | | pCi/g | 14-Jun-05 | 0.55 | 0.36 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Bismuth 210 ^e | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Bismuth 211 ^f | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Bismuth 212 | 0.99 | | | pCi/g | 14-Jun-05 | 0.59 | 0.71 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Bismuth 214 | 0.64 | | | pCi/g | 14-Jun-05 | 0.2 | 0.17 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Cobalt 57 | 0.012 U | | | pCi/g | 14-Jun-05 | 0.028 | 0.05 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Cobalt 60 | 0.028 U | | | pCi/g | 14-Jun-05 | 0.055 | 0.12 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lead 210 | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lead 211 ^g | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lead 212 | 1.33 | | | pCi/g | 14-Jun-05 | 0.22 | 0.13 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lead 214 | 0.77 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Polonium 210 ^h | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Polonium 212 ⁱ | 0.63 | | | pCi/g | 14-Jun-05 | 0.38 | 0.45 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Polonium 214 ^j | 0.64 | | | pCi/g | 14-Jun-05 | 0.2 | 0.17 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Polonium 215 ^k | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Polonium 216 ^l | 1.33 | | | pCi/g | 14-Jun-05 | 0.22 | 0.13 |
| HDRFG1C4 | Soil | BRC-BKG-04C-9-11 | Polonium 218 ^m | 0.925 J | J | k | pCi/g | 14-Jun-05 | 0.14 | 0.143 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Potassium 40 | 22 | | | pCi/g | 14-Jun-05 | 3.3 | 1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Protactinium 234 | -0.04 U | | | pCi/g | 14-Jun-05 | 0.15 | 0.26 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Radium 223 ⁿ | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Radium 224 ^o | 1.33 | | | pCi/g | 14-Jun-05 | 0.22 | 0.13 |
| HDRFG1C4 | Soil | BRC-BKG-04C-9-11 | Radium 226 | 0.925 J | J | k | pCi/g | 14-Jun-05 | 0.14 | 0.143 |
| HDRFG2C5 | Soil | BRC-BKG-04C-9-11 | Radium 228 | 0.946 J | U | k, b | pCi/g | 14-Jun-05 | 0.16 | 0.446 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thallium 207 ^p | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thallium 208 | 0.39 | | | pCi/g | 14-Jun-05 | 0.13 | 0.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 227 | 0.04 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.78 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 228 | 1.82 | | | pCi/g | 14-Jun-05 | 0.34 | 0.14 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 230 | 0.92 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 231 | 0.101 J | U | b | pCi/g | 14-Jun-05 | 0.089 | 0.096 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 232 | 1.69 | | | pCi/g | 14-Jun-05 | 0.31 | 0.05 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thorium 234 | 0.24 U | | | pCi/g | 14-Jun-05 | 0.65 | 1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Uranium 233/234 | 0.86 J | U | b | pCi/g | 14-Jun-05 | 0.23 | 0.1 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Uranium 235 | 0.101 J | J | k | pCi/g | 14-Jun-05 | 0.089 | 0.096 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Uranium 238 | 1.06 | | | pCi/g | 14-Jun-05 | 0.25 | 0.09 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Moisture (%) | 4.1 | | | percent | 14-Jun-05 | | |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Aluminum | 12200 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Arsenic | 3.2 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Barium | 197 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Beryllium | 0.47 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Boron | 3.5 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Calcium | 32000 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Chromium | 8.2 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Cobalt | 12.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Copper | 18.2 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Iron | 17400 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lead | 6.7 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Lithium | 9.9 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Magnesium | 11100 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Manganese | 489 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Mercury | 0.028 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Molybdenum | 0.41 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Nickel | 17.2 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Niobium | 1.1 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Palladium | 0.59 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Phosphorus | 1800 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Potassium | 1250 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Silicon | 631 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Sodium | 712 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Strontium | 258 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Thallium | 1.2 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Tin | 0.53 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Titanium | 739 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Tungsten | 1.2 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Uranium | 0.92 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Vanadium | 47.1 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Zinc | 41.6 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308008 | Soil | BRC-BKG-04C-9-11 | Zirconium | 165 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Chloride | 1.1 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Nitrate | 3.3 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Sulfate | 3 B | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | CEC | 15.9 J | J | g | meq/100g | 14-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | pH (solid) | 8.8 | J | h | none | 14-Jun-05 | | |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Actinium 227 ^d | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Actinium 228 | 1.76 | | | pCi/g | 14-Jun-05 | 0.66 | 0.41 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Bismuth 210 ^e | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Bismuth 211 ^f | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Bismuth 212 | 0.89 | | | pCi/g | 14-Jun-05 | 0.58 | 0.62 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Bismuth 214 | 0.91 | | | pCi/g | 14-Jun-05 | 0.22 | 0.36 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Cobalt 57 | 0.016 U | | | pCi/g | 14-Jun-05 | 0.029 | 0.05 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Cobalt 60 | -0.017 U | | | pCi/g | 14-Jun-05 | 0.055 | 0.098 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lead 210 | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lead 211 ^g | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lead 212 | 1.9 | | | pCi/g | 14-Jun-05 | 0.27 | 0.12 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lead 214 | 0.98 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Polonium 210 ^h | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Polonium 212 ⁱ | 0.57 | | | pCi/g | 14-Jun-05 | 0.37 | 0.4 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Polonium 214 ^j | 0.91 | | | pCi/g | 14-Jun-05 | 0.22 | 0.19 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Polonium 215 ^k | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Polonium 216 ^l | 1.9 | | | pCi/g | 14-Jun-05 | 0.27 | 0.12 |
| HDRGG1C6 | Soil | BRC-BKG-05A-0-0.5 | Polonium 218 ^m | 0.714 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.0936 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Potassium 40 | 25.6 | | | pCi/g | 14-Jun-05 | 3.7 | 0.8 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Protactinium 234 | -0.18 U | | | pCi/g | 14-Jun-05 | 0.14 | 0.23 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Radium 223 ⁿ | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Radium 224 ^o | 1.9 | | | pCi/g | 14-Jun-05 | 0.27 | 0.12 |
| HDRGG1C6 | Soil | BRC-BKG-05A-0-0.5 | Radium 226 | 0.714 J | J | k, n | pCi/g | 14-Jun-05 | 0.1 | 0.0936 |
| HDRGG2C7 | Soil | BRC-BKG-05A-0-0.5 | Radium 228 | 2.37 | | | pCi/g | 14-Jun-05 | 0.25 | 0.469 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thallium 207 ^p | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thallium 208 | 0.69 | | | pCi/g | 14-Jun-05 | 0.15 | 0.09 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 227 | 0.36 U | | | pCi/g | 14-Jun-05 | 0.41 | 0.76 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 228 | 2.01 | | | pCi/g | 14-Jun-05 | 0.39 | 0.27 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 230 | 0.93 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.1 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 231 | 0.048 U | | | pCi/g | 14-Jun-05 | 0.064 | 0.085 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 232 | 1.53 | | | pCi/g | 14-Jun-05 | 0.29 | 0.06 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thorium 234 | 2.06 | | | pCi/g | 14-Jun-05 | 0.55 | 0.95 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Uranium 233/234 | 0.9 J | U | b | pCi/g | 14-Jun-05 | 0.23 | 0.1 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Uranium 235 | 0.048 U | | | pCi/g | 14-Jun-05 | 0.064 | 0.085 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Uranium 238 | 1 | | | pCi/g | 14-Jun-05 | 0.24 | 0.07 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Moisture (%) | 1.6 | | | percent | 14-Jun-05 | | |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Aluminum | 7240 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Arsenic | 2.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Barium | 152 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Beryllium | 0.35 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Calcium | 13500 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Chromium | 3.6 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Cobalt | 8.8 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Copper | 23.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Iron | 10500 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lead | 9.1 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Lithium | 9.6 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Magnesium | 9830 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Manganese | 503 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Mercury | 0.033 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Molybdenum | 0.39 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Nickel | 18.9 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Palladium | 0.27 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Phosphorus | 1620 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Potassium | 1770 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Silicon | 335 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Sodium | 175 | | | mg/kg | 14-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Strontium | 142 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Thallium | 1 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Tin | 0.59 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Titanium | 839 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Tungsten | 0.86 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Uranium | 1.2 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Vanadium | 38.4 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Zinc | 29.3 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308013 | Soil | BRC-BKG-05A-0-0.5 | Zirconium | 167 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Chloride | 1.8 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Fluoride | 2.1 | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Nitrate | 0.93 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Sulfate | 132 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | CEC | 18.4 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | pH (solid) | 8.7 | J | h | none | 14-Jun-05 | | |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Actinium 227 ^d | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Actinium 228 | 2.28 | | | pCi/g | 14-Jun-05 | 0.77 | 0.43 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.5 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Bismuth 211 ^f | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Bismuth 212 | 1.22 | | | pCi/g | 14-Jun-05 | 0.77 | 0.82 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Bismuth 214 | 0.92 | | | pCi/g | 14-Jun-05 | 0.25 | 0.44 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Cobalt 57 | -0.037 U | | | pCi/g | 14-Jun-05 | 0.037 | 0.061 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Cobalt 60 | -0.011 U | | | pCi/g | 14-Jun-05 | 0.06 | 0.11 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lead 210 | 0.8 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.5 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lead 211 ^g | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lead 212 | 1.93 | | | pCi/g | 14-Jun-05 | 0.29 | 0.14 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lead 214 | 1.08 | | | pCi/g | 14-Jun-05 | 0.25 | 0.18 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Polonium 210 ^h | 0.8 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.5 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Polonium 212 ⁱ | 0.78 | | | pCi/g | 14-Jun-05 | 0.49 | 0.53 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Polonium 214 ^j | 0.92 | | | pCi/g | 14-Jun-05 | 0.25 | 0.22 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Polonium 215 ^k | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Polonium 216 ^l | 1.93 | | | pCi/g | 14-Jun-05 | 0.29 | 0.14 |
| HDRGN1C4 | Soil | BRC-BKG-05A-4-6 | Polonium 218 ^m | 1.15 | | | pCi/g | 14-Jun-05 | 0.15 | 0.135 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Potassium 40 | 22 | | | pCi/g | 14-Jun-05 | 3.6 | 1.2 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Protactinium 234 | 0.05 U | | | pCi/g | 14-Jun-05 | 0.19 | 0.34 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Radium 223 ⁿ | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Radium 224 ^o | 1.93 | | | pCi/g | 14-Jun-05 | 0.29 | 0.14 |
| HDRGN1C4 | Soil | BRC-BKG-05A-4-6 | Radium 226 | 1.15 | | | pCi/g | 14-Jun-05 | 0.15 | 0.135 |
| HDRGN2C5 | Soil | BRC-BKG-05A-4-6 | Radium 228 | 1.5 J | U | k, b | pCi/g | 14-Jun-05 | 0.21 | 0.537 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thallium 207 ^p | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thallium 208 | 0.6 | | | pCi/g | 14-Jun-05 | 0.15 | 0.1 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 227 | 0.3 U | | | pCi/g | 14-Jun-05 | 0.52 | 0.95 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 228 | 2.03 | | | pCi/g | 14-Jun-05 | 0.36 | 0.15 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 230 | 1.08 | | | pCi/g | 14-Jun-05 | 0.24 | 0.07 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 231 | 0.083 J | U | b | pCi/g | 14-Jun-05 | 0.082 | 0.045 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 232 | 1.55 | | | pCi/g | 14-Jun-05 | 0.29 | 0.05 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thorium 234 | 2.3 | | | pCi/g | 14-Jun-05 | 1.1 | 1.4 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Uranium 233/234 | 0.83 J | U | b | pCi/g | 14-Jun-05 | 0.23 | 0.08 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Uranium 235 | 0.083 J | J | k | pCi/g | 14-Jun-05 | 0.082 | 0.045 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Uranium 238 | 1.16 | | | pCi/g | 14-Jun-05 | 0.27 | 0.06 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Moisture (%) | 7.4 | | | percent | 14-Jun-05 | | |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Aluminum | 10600 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Arsenic | 3.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Barium | 143 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Beryllium | 0.54 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Boron | 3.6 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Calcium | 16500 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Chromium | 12.1 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Cobalt | 11.4 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Copper | 20.5 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Iron | 16200 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lead | 6.4 | | | mg/kg | 14-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Lithium | 14.3 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Magnesium | 11200 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Manganese | 369 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Mercury | 0.034 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Molybdenum | 0.51 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Nickel | 22.2 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Niobium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Palladium | 0.3 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Phosphorus | 1810 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Potassium | 1750 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Silicon | 489 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Sodium | 338 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Strontium | 140 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Thallium | 1.8 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Tin | 0.55 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Titanium | 515 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Tungsten | 1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Uranium | 1 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Vanadium | 42.5 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Zinc | 40.2 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308014 | Soil | BRC-BKG-05A-4-6 | Zirconium | 179 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Chloride | 0.97 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Nitrate | U | UJ | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Sulfate | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | CEC | 15.4 | | | meq/100g | 17-Jun-05 | | |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | pH (solid) | 8.7 | J | h | none | 17-Jun-05 | | |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Actinium 227 ^d | 0.23 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|-------|
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Actinium 228 | 2.29 | | pCi/g | 17-Jun-05 | 0.72 | 0.37 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Bismuth 210 ^e | 1.7 U | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Bismuth 211 ^f | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Bismuth 212 | 1.54 | | pCi/g | 17-Jun-05 | 0.6 | 0.65 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Bismuth 214 | 0.79 | | pCi/g | 17-Jun-05 | 0.23 | 0.18 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Cobalt 57 | 0.002 U | | pCi/g | 17-Jun-05 | 0.029 | 0.05 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Cobalt 60 | -0.005 U | | pCi/g | 17-Jun-05 | 0.052 | 0.097 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lead 210 | 1.7 U | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lead 211 ^g | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lead 212 | 1.37 | | pCi/g | 17-Jun-05 | 0.24 | 0.17 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lead 214 | 0.96 | | pCi/g | 17-Jun-05 | 0.23 | 0.15 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 210 ^h | 1.7 U | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 212 ⁱ | 0.99 | | pCi/g | 17-Jun-05 | 0.39 | 0.42 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 214 ^j | 0.79 | | pCi/g | 17-Jun-05 | 0.23 | 0.18 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 215 ^k | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 216 ^l | 1.37 | | pCi/g | 17-Jun-05 | 0.24 | 0.17 |
| HD3DP1C4 | Soil | BRC-BKG-05AR-0-0.5 | Polonium 218 ^m | 1.36 | | pCi/g | 17-Jun-05 | 0.19 | 0.134 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Potassium 40 | 24 | | pCi/g | 17-Jun-05 | 3.4 | 0.8 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Protactinium 234 | 0.12 U | | pCi/g | 17-Jun-05 | 0.17 | 0.26 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Radium 223 ⁿ | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Radium 224 ^o | 1.37 | | pCi/g | 17-Jun-05 | 0.24 | 0.17 |
| HD3DP1C4 | Soil | BRC-BKG-05AR-0-0.5 | Radium 226 | 1.36 | | pCi/g | 17-Jun-05 | 0.19 | 0.134 |
| HD3DP1C5 | Soil | BRC-BKG-05AR-0-0.5 | Radium 228 | 2.65 | | pCi/g | 17-Jun-05 | 0.31 | 0.811 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thallium 207 ^p | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thallium 208 | 0.53 | | pCi/g | 17-Jun-05 | 0.14 | 0.09 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 227 | 0.23 U | | pCi/g | 17-Jun-05 | 0.43 | 0.77 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 228 | 1.71 | | pCi/g | 17-Jun-05 | 0.44 | 0.34 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 230 | 1 | | pCi/g | 17-Jun-05 | 0.28 | 0.14 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 231 | 0.049 U | | pCi/g | 17-Jun-05 | 0.053 | 0.055 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 232 | 1.75 | | pCi/g | 17-Jun-05 | 0.38 | 0.11 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thorium 234 | 1.77 | | pCi/g | 17-Jun-05 | 0.5 | 0.9 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Uranium 233/234 | 0.83 J | U | pCi/g | 17-Jun-05 | 0.2 | 0.04 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Uranium 235 | 0.049 U | | pCi/g | 17-Jun-05 | 0.053 | 0.055 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Uranium 238 | 0.89 J | J | k | pCi/g | 17-Jun-05 | 0.21 | 0.03 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Moisture (%) | 1.2 | | | percent | 17-Jun-05 | | |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Aluminum | 7500 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Antimony | 0.39 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Arsenic | 3.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Barium | 122 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Beryllium | 0.84 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Calcium | 14900 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Chromium | 10.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Cobalt | 8.8 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Copper | 18.2 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Iron | 14500 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lead | 9.1 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Lithium | 11.3 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Magnesium | 9190 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Manganese | 357 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Mercury | 0.021 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Molybdenum | 0.42 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Nickel | 17.5 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Niobium | 1.6 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Palladium | 0.26 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Phosphorus | 1580 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Potassium | 1940 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Selenium | 0.37 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Silicon | 711 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Sodium | 138 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Strontium | 113 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Thallium | 1.4 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Tin | 0.47 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Titanium | 535 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Tungsten | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Uranium | 0.73 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Vanadium | 35 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Zinc | 39 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233017 | Soil | BRC-BKG-05AR-0-0.5 | Zirconium | 127 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Chloride | U | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Nitrate | 0.87 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Sulfate | 2.2 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | CEC | 14.5 | | | meq/100g | 17-Jun-05 | | |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | pH (solid) | 8.9 | J | h | none | 17-Jun-05 | | |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Actinium 227 ^d | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Actinium 228 | 2.32 | | | pCi/g | 17-Jun-05 | 0.74 | 0.35 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Bismuth 210 ^e | 1.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Bismuth 211 ^f | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Bismuth 212 | 0.84 U | | | pCi/g | 17-Jun-05 | 0.55 | 1.1 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Bismuth 214 | 0.84 | | | pCi/g | 17-Jun-05 | 0.2 | 0.18 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Cobalt 57 | -0.021 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.053 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Cobalt 60 | -0.012 U | | | pCi/g | 17-Jun-05 | 0.049 | 0.091 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lead 210 | 1.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lead 211 ^g | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lead 212 | 1.64 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lead 214 | 0.86 | | | pCi/g | 17-Jun-05 | 0.21 | 0.15 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Polonium 210 ^h | 1.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Polonium 212 ⁱ | 0.54 U | | | pCi/g | 17-Jun-05 | 0.35 | 0.7 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Polonium 214 ^j | 0.84 | | | pCi/g | 17-Jun-05 | 0.2 | 0.18 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Polonium 215 ^k | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Polonium 216 ^l | 1.64 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3DX1C4 | Soil | BRC-BKG-05AR-4-6 | Polonium 218 ^m | 1.12 | | | pCi/g | 17-Jun-05 | 0.17 | 0.266 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Potassium 40 | 25.1 | | | pCi/g | 17-Jun-05 | 3.7 | 1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Protactinium 234 | -0.005 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.29 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Radium 223 ⁿ | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Radium 224 ^o | 1.64 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3DX1C4 | Soil | BRC-BKG-05AR-4-6 | Radium 226 | 1.12 | | | pCi/g | 17-Jun-05 | 0.17 | 0.266 |
| HD3DX1C5 | Soil | BRC-BKG-05AR-4-6 | Radium 228 | 2.4 | | | pCi/g | 17-Jun-05 | 0.25 | 0.577 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thallium 207 ^p | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thallium 208 | 0.63 | | | pCi/g | 17-Jun-05 | 0.14 | 0.08 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 227 | 0.13 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 228 | 2.15 | | | pCi/g | 17-Jun-05 | 0.41 | 0.27 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 230 | 1.19 | | | pCi/g | 17-Jun-05 | 0.26 | 0.1 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 231 | 0.053 J | U | b | pCi/g | 17-Jun-05 | 0.06 | 0.036 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 232 | 1.92 | | | pCi/g | 17-Jun-05 | 0.34 | 0.06 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thorium 234 | 1.76 | | | pCi/g | 17-Jun-05 | 0.53 | 0.99 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Uranium 233/234 | 1.02 | U | b | pCi/g | 17-Jun-05 | 0.23 | 0.03 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Uranium 235 | 0.053 J | J | k | pCi/g | 17-Jun-05 | 0.06 | 0.036 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Uranium 238 | 1.02 | | | pCi/g | 17-Jun-05 | 0.23 | 0.03 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Moisture (%) | 20.8 | | | percent | 17-Jun-05 | | |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Aluminum | 5660 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Arsenic | 3.1 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Barium | 77.2 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Beryllium | 0.69 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Calcium | 9440 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Chromium | 6.5 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Cobalt | 8.1 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Copper | 15.3 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Iron | 11900 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lead | 6.7 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Lithium | 8.7 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Magnesium | 7000 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Manganese | 308 N | | | mg/kg | 17-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Molybdenum | 0.35 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Nickel | 16.4 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Palladium | 0.19 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Phosphorus | 1820 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Potassium | 872 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Selenium | 0.37 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Silicon | 901 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Sodium | 417 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Strontium | 87.9 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Thallium | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Tin | 0.37 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Titanium | 388 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Tungsten | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Uranium | 0.8 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Vanadium | 28.6 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Zinc | 35.5 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233019 | Soil | BRC-BKG-05AR-4-6 | Zirconium | 144 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Chloride | 16.3 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Nitrate | 0.9 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Sulfate | 10.8 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | CEC | 15.7 | | | meq/100g | 17-Jun-05 | | |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Actinium 227 ^d | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Actinium 228 | 2.43 | | | pCi/g | 17-Jun-05 | 0.77 | 0.3 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Bismuth 210 ^e | 0.09 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Bismuth 211 ^f | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|-------|
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Bismuth 212 | 1.46 | | | pCi/g | 17-Jun-05 | 0.63 | 0.75 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Bismuth 214 | 1.09 | | | pCi/g | 17-Jun-05 | 0.23 | 0.16 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Cobalt 57 | 0.002 U | | | pCi/g | 17-Jun-05 | 0.029 | 0.049 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Cobalt 60 | 0.061 U | | | pCi/g | 17-Jun-05 | 0.059 | 0.13 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lead 210 | 0.09 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lead 211 ^g | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lead 212 | 1.82 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lead 214 | 0.96 | | | pCi/g | 17-Jun-05 | 0.22 | 0.15 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Polonium 210 ^h | 0.09 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Polonium 212 ⁱ | 0.93 | | | pCi/g | 17-Jun-05 | 0.41 | 0.48 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Polonium 214 ^j | 1.09 | | | pCi/g | 17-Jun-05 | 0.23 | 0.16 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Polonium 215 ^k | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Polonium 216 ^l | 1.82 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3EE1C5 | Soil | BRC-BKG-05AR-9-11 | Polonium 218 ^m | 1.28 | | | pCi/g | 17-Jun-05 | 0.17 | 0.152 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Potassium 40 | 25.1 | | | pCi/g | 17-Jun-05 | 3.6 | 0.8 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Protactinium 234 | -0.04 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.25 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Radium 223 ⁿ | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Radium 224 ^o | 1.82 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3EE1C5 | Soil | BRC-BKG-05AR-9-11 | Radium 226 | 1.28 | | | pCi/g | 17-Jun-05 | 0.17 | 0.152 |
| HD3EE1C6 | Soil | BRC-BKG-05AR-9-11 | Radium 228 | 2.14 | | | pCi/g | 17-Jun-05 | 0.25 | 0.631 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thallium 207 ^p | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thallium 208 | 0.67 | | | pCi/g | 17-Jun-05 | 0.14 | 0.08 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 227 | -0.03 U | | | pCi/g | 17-Jun-05 | 0.43 | 0.76 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 228 | 2.11 | | | pCi/g | 17-Jun-05 | 0.38 | 0.16 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 230 | 0.97 J | J | k | pCi/g | 17-Jun-05 | 0.23 | 0.08 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 231 | 0.037 J | U | b | pCi/g | 17-Jun-05 | 0.049 | 0.033 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 232 | 2.06 | | | pCi/g | 17-Jun-05 | 0.36 | 0.05 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thorium 234 | 0.75 U | | | pCi/g | 17-Jun-05 | 0.36 | 0.92 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Uranium 233/234 | 0.96 J | U | b | pCi/g | 17-Jun-05 | 0.21 | 0.03 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Uranium 235 | 0.037 J | J | k | pCi/g | 17-Jun-05 | 0.049 | 0.033 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Uranium 238 | 0.94 J | J | k | pCi/g | 17-Jun-05 | 0.21 | 0.03 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Moisture (%) | 5.3 | | | percent | 17-Jun-05 | | |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Aluminum | 6530 NE | J | j | mg/kg | 17-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Antimony | 0.12 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Arsenic | 3.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Barium | 118 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Beryllium | 0.89 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Calcium | 18800 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Chromium | 10.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Cobalt | 8.9 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Copper | 16.7 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Iron | 14700 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lead | 7.8 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Lithium | 11.7 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Magnesium | 8910 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Manganese | 400 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Mercury | 0.011 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Molybdenum | 0.42 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Nickel | 17.6 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Palladium | 0.25 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Phosphorus | 1690 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Platinum | 0.064 B | J | g | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Potassium | 918 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Silicon | 1120 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Sodium | 453 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Strontium | 124 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Thallium | 1.6 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Tin | 0.46 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Titanium | 436 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Tungsten | 0.84 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Uranium | 0.95 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Vanadium | 35.9 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Zinc | 51.7 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233020 | Soil | BRC-BKG-05AR-9-11 | Zirconium | 151 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Chloride | 0.51 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Nitrate | 1.3 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Sulfate | 2.8 B | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | CEC | 15.5 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | pH (solid) | 9 | J | h | none | 14-Jun-05 | | |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Actinium 227 ^d | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Actinium 228 | 1.81 | | | pCi/g | 14-Jun-05 | 0.68 | 0.37 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Bismuth 211 ^f | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Bismuth 212 | 1.07 | | | pCi/g | 14-Jun-05 | 0.53 | 0.79 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Bismuth 214 | 0.92 | | | pCi/g | 14-Jun-05 | 0.22 | 0.39 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Cobalt 57 | 0.007 U | | | pCi/g | 14-Jun-05 | 0.031 | 0.053 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Cobalt 60 | 0.011 U | | | pCi/g | 14-Jun-05 | 0.05 | 0.1 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lead 211 ^g | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lead 212 | 1.98 | | | pCi/g | 14-Jun-05 | 0.29 | 0.13 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lead 214 | 0.87 | | | pCi/g | 14-Jun-05 | 0.25 | 0.15 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Polonium 212 ⁱ | 0.69 | | | pCi/g | 14-Jun-05 | 0.34 | 0.51 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Polonium 214 ^j | 0.92 | | | pCi/g | 14-Jun-05 | 0.22 | 0.17 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Polonium 215 ^k | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Polonium 216 ^l | 1.98 | | | pCi/g | 14-Jun-05 | 0.29 | 0.13 |
| HDRGQ1C4 | Soil | BRC-BKG-05B-0-0.5 | Polonium 218 ^m | 0.879 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.136 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Potassium 40 | 27.5 | | | pCi/g | 14-Jun-05 | 4 | 1 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Protactinium 234 | -0.21 U | | | pCi/g | 14-Jun-05 | 0.16 | 0.25 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Radium 223 ⁿ | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Radium 224 ^o | 1.98 | | | pCi/g | 14-Jun-05 | 0.29 | 0.13 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HDRGQ1C4 | Soil | BRC-BKG-05B-0-0.5 | Radium 226 | 0.879 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.136 |
| HDRGQ2C5 | Soil | BRC-BKG-05B-0-0.5 | Radium 228 | 1.86 J | U | k, b | pCi/g | 14-Jun-05 | 0.21 | 0.443 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thallium 207 ^P | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thallium 208 | 0.72 | | | pCi/g | 14-Jun-05 | 0.16 | 0.09 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 227 | 0.008 U | | | pCi/g | 14-Jun-05 | 0.45 | 0.8 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 228 | 1.65 | | | pCi/g | 14-Jun-05 | 0.34 | 0.17 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 230 | 1.15 | | | pCi/g | 14-Jun-05 | 0.26 | 0.08 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 231 | 0.124 J | U | b | pCi/g | 14-Jun-05 | 0.094 | 0.042 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 232 | 1.57 | | | pCi/g | 14-Jun-05 | 0.31 | 0.05 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thorium 234 | 1.86 | | | pCi/g | 14-Jun-05 | 0.69 | 1.2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Uranium 233/234 | 0.88 J | U | b | pCi/g | 14-Jun-05 | 0.23 | 0.08 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Uranium 235 | 0.124 J | J | k | pCi/g | 14-Jun-05 | 0.094 | 0.042 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Uranium 238 | 1.08 | | | pCi/g | 14-Jun-05 | 0.26 | 0.07 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Moisture (%) | 1.9 | | | percent | 14-Jun-05 | | |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Aluminum | 7130 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Arsenic | 2.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Barium | 145 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Beryllium | 0.33 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Calcium | 14400 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Chromium | 4.8 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Cobalt | 8.7 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Copper | 22.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Iron | 10700 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lead | 8.1 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Lithium | 8.8 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Magnesium | 8470 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Manganese | 407 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Mercury | 0.025 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Molybdenum | 0.36 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Nickel | 17.4 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Niobium | 2.3 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Palladium | 0.28 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Phosphorus | 1590 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Potassium | 1530 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Silicon | 342 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Sodium | 155 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Strontium | 131 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Thallium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Tin | 0.55 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Titanium | 659 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Tungsten | 1.7 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Uranium | 0.89 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Vanadium | 33.5 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Zinc | 33.7 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308015 | Soil | BRC-BKG-05B-0-0.5 | Zirconium | 154 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Chloride | 0.79 B J | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Nitrate | 0.51 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Sulfate | 0.86 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | CEC | 17.3 | | | meq/100g | 17-Jun-05 | | |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | pH (solid) | 8.6 | J | h | none | 17-Jun-05 | | |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Actinium 227 ^d | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Actinium 228 | 2.27 | | | pCi/g | 17-Jun-05 | 0.73 | 0.34 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Bismuth 211 ^f | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Bismuth 212 | 1.07 U | | | pCi/g | 17-Jun-05 | 0.55 | 1.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Bismuth 214 | 0.81 | | | pCi/g | 17-Jun-05 | 0.25 | 0.42 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Cobalt 57 | 0.013 U | | | pCi/g | 17-Jun-05 | 0.03 | 0.054 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Cobalt 60 | 0.025 U | | | pCi/g | 17-Jun-05 | 0.059 | 0.12 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lead 211 ^g | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lead 212 | 1.61 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lead 214 | 0.88 | | | pCi/g | 17-Jun-05 | 0.22 | 0.16 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 212 ⁱ | 0.68 U | | | pCi/g | 17-Jun-05 | 0.36 | 0.75 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 214 ^j | 0.81 | | | pCi/g | 17-Jun-05 | 0.25 | 0.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 215 ^k | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 216 ^l | 1.61 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3E41C4 | Soil | BRC-BKG-05BR-0-0.5 | Polonium 218 ^m | 1.12 | | | pCi/g | 17-Jun-05 | 0.16 | 0.247 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Potassium 40 | 23.5 | | | pCi/g | 17-Jun-05 | 3.6 | 1.4 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Protactinium 234 | -0.27 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.26 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Radium 223 ⁿ | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Radium 224 ^o | 1.61 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| HD3E41C4 | Soil | BRC-BKG-05BR-0-0.5 | Radium 226 | 1.12 | | | pCi/g | 17-Jun-05 | 0.16 | 0.247 |
| HD3E41C5 | Soil | BRC-BKG-05BR-0-0.5 | Radium 228 | 2.06 | | | pCi/g | 17-Jun-05 | 0.22 | 0.416 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thallium 207 ^p | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thallium 208 | 0.56 | | | pCi/g | 17-Jun-05 | 0.15 | 0.1 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 227 | -0.05 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.72 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 228 | 1.55 | | | pCi/g | 17-Jun-05 | 0.27 | 0.05 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 230 | 0.73 J | J | k | pCi/g | 17-Jun-05 | 0.18 | 0.03 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 231 | 0.073 U | | | pCi/g | 17-Jun-05 | 0.081 | 0.098 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 232 | 1.52 | | | pCi/g | 17-Jun-05 | 0.27 | 0.03 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thorium 234 | 1.1 U | | | pCi/g | 17-Jun-05 | 0.68 | 1.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Uranium 233/234 | 0.83 J | U | b | pCi/g | 17-Jun-05 | 0.22 | 0.11 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Uranium 235 | 0.073 U | | | pCi/g | 17-Jun-05 | 0.081 | 0.098 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Uranium 238 | 0.94 J | J | k | pCi/g | 17-Jun-05 | 0.24 | 0.09 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Moisture (%) | 1.4 | | | percent | 17-Jun-05 | | |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Aluminum | 7820 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Antimony | 0.2 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Arsenic | 3.3 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Barium | 141 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Beryllium | 0.89 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Calcium | 16600 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Chromium | 11.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Cobalt | 9.5 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Copper | 18.6 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Iron | 15700 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lead | 7.9 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Lithium | 11.1 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Magnesium | 8970 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Manganese | 404 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Mercury | 0.016 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Molybdenum | 0.42 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Nickel | 18.8 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Palladium | 0.24 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Phosphorus | 1590 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Potassium | 1870 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Selenium | 0.54 | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Silicon | 844 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Sodium | 146 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Strontium | 119 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Thallium | 1.5 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Tin | 0.52 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Titanium | 624 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Tungsten | 0.73 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Uranium | 1.1 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Vanadium | 41.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Zinc | 37.7 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233021 | Soil | BRC-BKG-05BR-0-0.5 | Zirconium | 133 | | | mg/kg | 17-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Chloride | 1.6 B J | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Nitrate | 0.65 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Sulfate | 3.1 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | CEC | 15.9 | | | meq/100g | 17-Jun-05 | | |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | pH (solid) | 8.9 | J | h | none | 17-Jun-05 | | |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Actinium 227 ^d | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Actinium 228 | 2.17 | | | pCi/g | 17-Jun-05 | 0.74 | 0.35 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Bismuth 210 ^e | 0.36 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Bismuth 211 ^f | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Bismuth 212 | 1.37 | | | pCi/g | 17-Jun-05 | 0.56 | 1.1 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Bismuth 214 | 0.88 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Cobalt 57 | -0.045 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.047 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Cobalt 60 | 0.071 U | | | pCi/g | 17-Jun-05 | 0.058 | 0.13 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lead 210 | 0.36 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lead 211 ^g | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lead 212 | 1.77 | | | pCi/g | 17-Jun-05 | 0.26 | 0.11 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lead 214 | 0.88 | | | pCi/g | 17-Jun-05 | 0.22 | 0.15 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Polonium 210 ^h | 0.36 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Polonium 212 ⁱ | 0.88 | | | pCi/g | 17-Jun-05 | 0.36 | 0.72 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Polonium 214 ^j | 0.88 | | | pCi/g | 17-Jun-05 | 0.21 | 0.17 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Polonium 215 ^k | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Polonium 216 ^l | 1.77 | | | pCi/g | 17-Jun-05 | 0.26 | 0.11 |
| HD3GV1C5 | Soil | BRC-BKG-05BR-4-6 | Polonium 218 ^m | 1.22 | | | pCi/g | 17-Jun-05 | 0.18 | 0.226 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Potassium 40 | 23.4 | | | pCi/g | 17-Jun-05 | 3.4 | 0.9 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Protactinium 234 | -0.02 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.24 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Radium 223 ⁿ | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Radium 224 ^o | 1.77 | | | pCi/g | 17-Jun-05 | 0.26 | 0.11 |
| HD3GV1C5 | Soil | BRC-BKG-05BR-4-6 | Radium 226 | 1.22 | | | pCi/g | 17-Jun-05 | 0.18 | 0.226 |
| HD3GV1C6 | Soil | BRC-BKG-05BR-4-6 | Radium 228 | 2.31 | | | pCi/g | 17-Jun-05 | 0.25 | 0.508 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thallium 207 ^p | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thallium 208 | 0.6 | | | pCi/g | 17-Jun-05 | 0.13 | 0.08 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 227 | -0.13 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.71 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 228 | 2.06 | | | pCi/g | 17-Jun-05 | 0.35 | 0.07 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 230 | 1.42 | | | pCi/g | 17-Jun-05 | 0.28 | 0.03 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 231 | 0.062 U | | | pCi/g | 17-Jun-05 | 0.067 | 0.069 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 232 | 1.91 | | | pCi/g | 17-Jun-05 | 0.33 | 0.05 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thorium 234 | 1.58 | | | pCi/g | 17-Jun-05 | 0.46 | 0.81 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Uranium 233/234 | 0.95 J | U | b | pCi/g | 17-Jun-05 | 0.24 | 0.09 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Uranium 235 | 0.062 U | | | pCi/g | 17-Jun-05 | 0.067 | 0.069 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Uranium 238 | 0.97 J | J | k | pCi/g | 17-Jun-05 | 0.24 | 0.04 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Moisture (%) | 4.8 | | | percent | 17-Jun-05 | | |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Aluminum | 5740 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Antimony | 0.23 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Arsenic | 3.4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Barium | 96.7 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Beryllium | 0.76 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Boron | 3.5 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Calcium | 11400 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Chromium | 6.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Cobalt | 8.3 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Copper | 15.5 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Iron | 12300 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lead | 6.9 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Lithium | 8.5 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Magnesium | 7090 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Manganese | 397 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Mercury | 0.0084 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Molybdenum | 0.37 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Nickel | 16.4 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Niobium | 2.5 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Palladium | 0.16 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Phosphorus | 1730 | | | mg/kg | 17-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Potassium | 989 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Silicon | 774 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Sodium | 307 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Strontium | 75.5 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Thallium | 0.4 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Tin | 0.48 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Titanium | 432 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Tungsten | 0.64 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Uranium | 1 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Vanadium | 29.2 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Zinc | 33.1 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233022 | Soil | BRC-BKG-05BR-4-6 | Zirconium | 135 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Chloride | 21.7 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Nitrate | 1.5 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Sulfate | 8.6 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | CEC | 14.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Actinium 227 ^d | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Actinium 228 | 2.33 | | | pCi/g | 17-Jun-05 | 0.79 | 0.4 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Bismuth 211 ^f | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Bismuth 212 | 1.11 | | | pCi/g | 17-Jun-05 | 0.73 | 0.73 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Bismuth 214 | 1.07 | | | pCi/g | 17-Jun-05 | 0.27 | 0.46 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Cobalt 57 | -0.001 U | | | pCi/g | 17-Jun-05 | 0.033 | 0.057 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Cobalt 60 | 0.011 U | | | pCi/g | 17-Jun-05 | 0.06 | 0.12 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lead 210 | 0.3 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lead 211 ^g | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lead 212 | 2.11 | | | pCi/g | 17-Jun-05 | 0.31 | 0.14 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lead 214 | 0.97 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Polonium 210 ^h | 0.3 U | | | pCi/g | 17-Jun-05 | 1.4 | 2.5 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Polonium 212 ⁱ | 0.71 | | | pCi/g | 17-Jun-05 | 0.47 | 0.47 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Polonium 214 ^j | 1.07 | | | pCi/g | 17-Jun-05 | 0.27 | 0.22 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Polonium 215 ^k | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Polonium 216 ^l | 2.11 | | | pCi/g | 17-Jun-05 | 0.31 | 0.14 |
| HD3JL1C5 | Soil | BRC-BKG-05BR-9-11 | Polonium 218 ^m | 0.978 J | U | k, b | pCi/g | 17-Jun-05 | 0.15 | 0.176 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Potassium 40 | 27.2 | | | pCi/g | 17-Jun-05 | 4.2 | 1 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Protactinium 234 | -0.25 U | | | pCi/g | 17-Jun-05 | 0.18 | 0.28 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Radium 223 ⁿ | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Radium 224 ^o | 2.11 | | | pCi/g | 17-Jun-05 | 0.31 | 0.14 |
| HD3JL1C5 | Soil | BRC-BKG-05BR-9-11 | Radium 226 | 0.978 J | U | k, b | pCi/g | 17-Jun-05 | 0.15 | 0.176 |
| HD3JL1C6 | Soil | BRC-BKG-05BR-9-11 | Radium 228 | 2.51 | | | pCi/g | 17-Jun-05 | 0.24 | 0.412 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thallium 207 ^p | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thallium 208 | 0.68 | | | pCi/g | 17-Jun-05 | 0.17 | 0.1 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 227 | 0.02 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.82 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 228 | 1.91 | | | pCi/g | 17-Jun-05 | 0.33 | 0.09 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 230 | 0.98 J | J | k | pCi/g | 17-Jun-05 | 0.22 | 0.06 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 231 | 0.102 J | U | b | pCi/g | 17-Jun-05 | 0.095 | 0.01 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 232 | 1.77 | | | pCi/g | 17-Jun-05 | 0.31 | 0.03 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thorium 234 | 1.51 | | | pCi/g | 17-Jun-05 | 0.8 | 1.4 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Uranium 233/234 | 1.23 | J+ | b | pCi/g | 17-Jun-05 | 0.3 | 0.14 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Uranium 235 | 0.102 U | | | pCi/g | 17-Jun-05 | 0.095 | 0.1 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Uranium 238 | 1.36 | | | pCi/g | 17-Jun-05 | 0.31 | 0.1 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Moisture (%) | 3.4 | | | percent | 17-Jun-05 | | |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Aluminum | 7880 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Antimony | 0.21 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Arsenic | 3.9 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Barium | 122 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Beryllium | 0.79 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Boron | 3.4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Calcium | 18500 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Chromium | 9.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Cobalt | 10 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Copper | 19 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Iron | 12300 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lead | 6 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Lithium | 12.8 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Magnesium | 9700 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Manganese | 433 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Mercury | 0.01 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Molybdenum | 0.47 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Nickel | 22.1 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Palladium | 0.26 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Phosphorus | 1520 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Potassium | 1190 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Selenium | 0.29 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Silicon | 1100 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Sodium | 360 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Strontium | 117 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Thallium | 0.58 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Tin | 0.52 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Titanium | 509 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Tungsten | 0.51 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Uranium | 0.89 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Vanadium | 36.9 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Zinc | 34.8 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233023 | Soil | BRC-BKG-05BR-9-11 | Zirconium | 129 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Chloride | 1.8 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Nitrate | 2.6 | J | h | mg/kg | 14-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Sulfate | 4.4 B | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | CEC | 19.2 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | pH (solid) | 8.9 | J | h | none | 14-Jun-05 | | |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Actinium 227 ^d | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Actinium 228 | 2.01 | | | pCi/g | 14-Jun-05 | 0.75 | 0.47 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Bismuth 211 ^f | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Bismuth 212 | 1.45 | | | pCi/g | 14-Jun-05 | 0.63 | 1.3 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Bismuth 214 | 0.73 | | | pCi/g | 14-Jun-05 | 0.22 | 0.42 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Cobalt 57 | 0.009 U | | | pCi/g | 14-Jun-05 | 0.033 | 0.058 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Cobalt 60 | -0.052 U | | | pCi/g | 14-Jun-05 | 0.069 | 0.11 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lead 210 | 0.7 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lead 211 ^g | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lead 212 | 1.8 | | | pCi/g | 14-Jun-05 | 0.28 | 0.12 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lead 214 | 0.79 | | | pCi/g | 14-Jun-05 | 0.24 | 0.19 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Polonium 210 ^h | 0.7 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Polonium 212 ⁱ | 0.93 | | | pCi/g | 14-Jun-05 | 0.4 | 0.85 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Polonium 214 ^j | 0.73 | | | pCi/g | 14-Jun-05 | 0.21 | 0.2 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Polonium 215 ^k | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Polonium 216 ^l | 1.8 | | | pCi/g | 14-Jun-05 | 0.28 | 0.12 |
| HDRGR1C4 | Soil | BRC-BKG-05C-0-0.5 | Polonium 218 ^m | 1.05 | | | pCi/g | 14-Jun-05 | 0.14 | 0.107 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Potassium 40 | 25 | | | pCi/g | 14-Jun-05 | 3.9 | 1 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Protactinium 234 | -0.07 U | | | pCi/g | 14-Jun-05 | 0.17 | 0.29 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Radium 223 ⁿ | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Radium 224 ^o | 1.8 | | | pCi/g | 14-Jun-05 | 0.28 | 0.12 |
| HDRGR1C4 | Soil | BRC-BKG-05C-0-0.5 | Radium 226 | 1.05 | | | pCi/g | 14-Jun-05 | 0.14 | 0.107 |
| HDRGR1C5 | Soil | BRC-BKG-05C-0-0.5 | Radium 228 | 1.92 J | J | k | pCi/g | 14-Jun-05 | 0.27 | 0.846 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thallium 207 ^p | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thallium 208 | 0.6 | | | pCi/g | 14-Jun-05 | 0.15 | 0.1 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 227 | 0.06 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.79 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 228 | 1.99 | | | pCi/g | 14-Jun-05 | 0.43 | 0.18 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 230 | 0.93 J | J | k | pCi/g | 14-Jun-05 | 0.26 | 0.08 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 231 | 0.054 J | U | b | pCi/g | 14-Jun-05 | 0.072 | 0.048 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 232 | 1.84 | | | pCi/g | 14-Jun-05 | 0.39 | 0.07 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thorium 234 | 1.21 U | | | pCi/g | 14-Jun-05 | 0.73 | 1.4 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Uranium 233/234 | 1.16 | U | b | pCi/g | 14-Jun-05 | 0.29 | 0.07 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Uranium 235 | 0.054 J | J | k | pCi/g | 14-Jun-05 | 0.072 | 0.048 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Uranium 238 | 1.04 | | | pCi/g | 14-Jun-05 | 0.27 | 0.07 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Moisture (%) | 1.4 | | | percent | 14-Jun-05 | | |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Aluminum | 8730 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Arsenic | 2.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Barium | 154 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Beryllium | 0.37 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Boron | U | | | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Calcium | 15000 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Chromium | 4.7 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Cobalt | 9.3 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Copper | 21 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Iron | 10700 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lead | 8 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Lithium | 9.2 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Magnesium | 9600 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Manganese | 402 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Mercury | 0.021 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Molybdenum | 0.36 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Nickel | 19.8 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Palladium | 0.36 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Phosphorus | 1630 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Potassium | 1830 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Silicon | 375 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Sodium | 169 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Strontium | 166 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Thallium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Tin | 0.61 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Titanium | 673 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Tungsten | 1.3 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Uranium | 1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Vanadium | 35.6 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Zinc | 30.4 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308016 | Soil | BRC-BKG-05C-0-0.5 | Zirconium | 158 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Chloride | 0.84 B J | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Nitrate | 0.25 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Sulfate | U | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | CEC | 17.3 | | | meq/100g | 17-Jun-05 | | |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | pH (solid) | 8.6 | J | h | none | 17-Jun-05 | | |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Actinium 227 ^d | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Actinium 228 | 1.68 | | | pCi/g | 17-Jun-05 | 0.66 | 0.38 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Bismuth 211 ^f | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Bismuth 212 | 0.83 | | | pCi/g | 17-Jun-05 | 0.58 | 0.78 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Bismuth 214 | 0.85 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Cobalt 57 | 0.014 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.054 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Cobalt 60 | 0.003 U | | | pCi/g | 17-Jun-05 | 0.067 | 0.12 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lead 210 | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lead 211 ^g | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lead 212 | 1.76 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lead 214 | 0.97 | | | pCi/g | 17-Jun-05 | 0.21 | 0.16 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 210 ^h | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 212 ⁱ | 0.53 | | | pCi/g | 17-Jun-05 | 0.37 | 0.5 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 214 ^j | 0.85 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 215 ^k | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 216 ^l | 1.76 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| HD3JN1C4 | Soil | BRC-BKG-05CR-0-0.5 | Polonium 218 ^m | 0.977 J | U | k, b | pCi/g | 17-Jun-05 | 0.14 | 0.104 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Potassium 40 | 25 | | | pCi/g | 17-Jun-05 | 3.7 | 0.9 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Protactinium 234 | -0.07 U | | | pCi/g | 17-Jun-05 | 0.15 | 0.25 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Radium 223 ⁿ | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Radium 224 ^o | 1.76 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| HD3JN1C4 | Soil | BRC-BKG-05CR-0-0.5 | Radium 226 | 0.977 J | U | k, b | pCi/g | 17-Jun-05 | 0.14 | 0.104 |
| HD3JN1C5 | Soil | BRC-BKG-05CR-0-0.5 | Radium 228 | 1.93 J | U | k, b | pCi/g | 17-Jun-05 | 0.21 | 0.452 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thallium 207 ^p | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thallium 208 | 0.61 | | | pCi/g | 17-Jun-05 | 0.14 | 0.09 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 227 | -0.28 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.76 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 228 | 1.93 | | | pCi/g | 17-Jun-05 | 0.33 | 0.03 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 230 | 0.94 J | J | k | pCi/g | 17-Jun-05 | 0.21 | 0.05 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 231 | 0.08 U | | | pCi/g | 17-Jun-05 | 0.084 | 0.098 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 232 | 1.8 | | | pCi/g | 17-Jun-05 | 0.31 | 0.03 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thorium 234 | 1.73 | | | pCi/g | 17-Jun-05 | 0.69 | 1.1 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Uranium 233/234 | 1 J | U | b | pCi/g | 17-Jun-05 | 0.25 | 0.08 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Uranium 235 | 0.08 U | | | pCi/g | 17-Jun-05 | 0.084 | 0.098 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Uranium 238 | 0.96 J | J | k | pCi/g | 17-Jun-05 | 0.24 | 0.07 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Moisture (%) | 1.1 | | | percent | 17-Jun-05 | | |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Aluminum | 6620 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Antimony | 0.2 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Arsenic | 3 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Barium | 139 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Beryllium | 0.73 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Calcium | 17200 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Chromium | 6.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Cobalt | 8.8 | | | mg/kg | 17-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|--------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Copper | 18.7 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Iron | 11700 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lead | 7.6 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Lithium | 9.7 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Magnesium | 9750 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Manganese | 522 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Mercury | 0.016 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Molybdenum | 0.43 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Nickel | 17.4 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Niobium | 2.1 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Palladium | 0.24 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Phosphorus | 1710 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Potassium | 1580 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Silicon | 412 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Sodium | 140 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Strontium | 108 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Tin | 0.44 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Titanium | 458 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Tungsten | 1.4 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Uranium | 0.82 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Vanadium | 32.5 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Zinc | 34.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233024 | Soil | BRC-BKG-05CR-0-0.5 | Zirconium | 140 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Chloride | 3 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Nitrate | 0.96 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Sulfate | 7.2 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | CEC | 17.4 | | | meq/100g | 17-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | pH (solid) | 8.7 | J | h | none | 17-Jun-05 | | |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Actinium 227 ^d | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Actinium 228 | 2.12 | | | pCi/g | 17-Jun-05 | 0.81 | 0.39 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Bismuth 210 ^e | -0.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.2 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Bismuth 211 ^f | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Bismuth 212 | 0.93 | | | pCi/g | 17-Jun-05 | 0.7 | 0.9 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Bismuth 214 | 0.95 | | | pCi/g | 17-Jun-05 | 0.25 | 0.41 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Cobalt 57 | -0.002 U | | | pCi/g | 17-Jun-05 | 0.033 | 0.058 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Cobalt 60 | 0.015 U | | | pCi/g | 17-Jun-05 | 0.052 | 0.11 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lead 210 | -0.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.2 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lead 211 ^g | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lead 212 | 1.73 | | | pCi/g | 17-Jun-05 | 0.29 | 0.23 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lead 214 | 0.89 | | | pCi/g | 17-Jun-05 | 0.22 | 0.19 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Polonium 210 ^h | -0.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.2 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Polonium 212 ⁱ | 0.59 | | | pCi/g | 17-Jun-05 | 0.45 | 0.57 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Polonium 214 ^j | 0.95 | | | pCi/g | 17-Jun-05 | 0.25 | 0.18 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Polonium 215 ^k | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Polonium 216 ^l | 1.73 | | | pCi/g | 17-Jun-05 | 0.29 | 0.23 |
| HD3JP1C4 | Soil | BRC-BKG-05CR-4-6 | Polonium 218 ^m | 1.07 | | | pCi/g | 17-Jun-05 | 0.16 | 0.26 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Potassium 40 | 23.9 | | | pCi/g | 17-Jun-05 | 3.6 | 0.9 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Protactinium 234 | -0.31 U | | | pCi/g | 17-Jun-05 | 0.18 | 0.27 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Radium 223 ⁿ | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Radium 224 ^o | 1.73 | | | pCi/g | 17-Jun-05 | 0.29 | 0.23 |
| HD3JP1C4 | Soil | BRC-BKG-05CR-4-6 | Radium 226 | 1.07 | | | pCi/g | 17-Jun-05 | 0.16 | 0.26 |
| HD3JP1C5 | Soil | BRC-BKG-05CR-4-6 | Radium 228 | 2.41 | | | pCi/g | 17-Jun-05 | 0.24 | 0.406 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thallium 207 ^p | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thallium 208 | 0.66 | | | pCi/g | 17-Jun-05 | 0.15 | 0.11 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 227 | 0.21 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.85 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 228 | 2.09 | | | pCi/g | 17-Jun-05 | 0.33 | 0.05 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 230 | 1.32 | | | pCi/g | 17-Jun-05 | 0.25 | 0.03 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 231 | 0.027 U | | | pCi/g | 17-Jun-05 | 0.066 | 0.11 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 232 | 1.78 | | | pCi/g | 17-Jun-05 | 0.3 | 0.04 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thorium 234 | -0.53 U | | | pCi/g | 17-Jun-05 | 0.9 | 1.3 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Uranium 233/234 | 1.14 | U | b | pCi/g | 17-Jun-05 | 0.27 | 0.12 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Uranium 235 | 0.027 U | | | pCi/g | 17-Jun-05 | 0.066 | 0.11 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Uranium 238 | 1.51 | | | pCi/g | 17-Jun-05 | 0.32 | 0.08 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Moisture (%) | 5.8 | | | percent | 17-Jun-05 | | |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Aluminum | 5220 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Antimony | N U | | | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Arsenic | 4.4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Barium | 73 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Beryllium | 0.61 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Calcium | 10300 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Chromium | 6 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Cobalt | 7 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Copper | 13.8 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Iron | 8740 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lead | 5.3 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Lithium | 8.8 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Magnesium | 7710 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Manganese | 268 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Mercury | 0.01 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Molybdenum | 0.32 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Nickel | 14.8 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Palladium | 0.17 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Phosphorus | 1670 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Potassium | 877 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Silicon | 399 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Sodium | 316 | | | mg/kg | 17-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Strontium | 77.8 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Thallium | 0.5 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Tin | 0.4 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Titanium | 368 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Tungsten | 0.99 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Uranium | 0.72 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Vanadium | 21.8 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Zinc | 32.2 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233025 | Soil | BRC-BKG-05CR-4-6 | Zirconium | 152 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Chloride | 23 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Nitrate | 1 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Sulfate | 11.3 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | CEC | 8.7 | | | meq/100g | 17-Jun-05 | | |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Actinium 227 ^d | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Actinium 228 | 3.4 | | | pCi/g | 17-Jun-05 | 1.1 | 0.5 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Bismuth 211 ^f | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Bismuth 212 | 1.42 | | | pCi/g | 17-Jun-05 | 0.72 | 0.95 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Bismuth 214 | 1.16 | | | pCi/g | 17-Jun-05 | 0.27 | 0.21 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Cobalt 57 | -0.031 U | | | pCi/g | 17-Jun-05 | 0.036 | 0.056 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Cobalt 60 | 0.011 U | | | pCi/g | 17-Jun-05 | 0.066 | 0.13 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lead 210 | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lead 211 ^g | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lead 212 | 1.98 | | | pCi/g | 17-Jun-05 | 0.32 | 0.25 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lead 214 | 1.23 | | | pCi/g | 17-Jun-05 | 0.25 | 0.18 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Polonium 210 ^h | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Polonium 212 ⁱ | 0.91 | | | pCi/g | 17-Jun-05 | 0.46 | 0.61 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Polonium 214 ^j | 1.16 | | | pCi/g | 17-Jun-05 | 0.27 | 0.21 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Polonium 215 ^k | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Polonium 216 ^l | 1.98 | | | pCi/g | 17-Jun-05 | 0.32 | 0.25 |
| HD3J31C4 | Soil | BRC-BKG-05CR-9-11 | Polonium 218 ^m | 0.939 J | U | k, b | pCi/g | 17-Jun-05 | 0.13 | 0.128 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Potassium 40 | 28.1 | | | pCi/g | 17-Jun-05 | 4.1 | 0.9 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Protactinium 234 | -0.08 U | | | pCi/g | 17-Jun-05 | 0.18 | 0.31 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Radium 223 ⁿ | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Radium 224 ^o | 1.98 | | | pCi/g | 17-Jun-05 | 0.32 | 0.25 |
| HD3J31C4 | Soil | BRC-BKG-05CR-9-11 | Radium 226 | 0.939 J | U | k, b | pCi/g | 17-Jun-05 | 0.13 | 0.128 |
| HD3J31C5 | Soil | BRC-BKG-05CR-9-11 | Radium 228 | 2.17 | | | pCi/g | 17-Jun-05 | 0.23 | 0.425 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thallium 207 ^p | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thallium 208 | 0.72 | | | pCi/g | 17-Jun-05 | 0.17 | 0.11 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 227 | -0.02 U | | | pCi/g | 17-Jun-05 | 0.49 | 0.87 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 228 | 1.66 | | | pCi/g | 17-Jun-05 | 0.31 | 0.07 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 230 | 1.16 | | | pCi/g | 17-Jun-05 | 0.25 | 0.03 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 231 | 0.087 J | U | b | pCi/g | 17-Jun-05 | 0.078 | 0.081 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 232 | 1.79 | | | pCi/g | 17-Jun-05 | 0.32 | 0.03 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thorium 234 | 1.39 U | | | pCi/g | 17-Jun-05 | 0.77 | 1.4 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Uranium 233/234 | 1.04 | U | b | pCi/g | 17-Jun-05 | 0.24 | 0.1 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Uranium 235 | 0.087 J | J | k | pCi/g | 17-Jun-05 | 0.078 | 0.081 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Uranium 238 | 0.89 J | J | k | pCi/g | 17-Jun-05 | 0.22 | 0.06 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Moisture (%) | 3.4 | | | percent | 17-Jun-05 | | |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Aluminum | 7660 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Antimony | 0.29 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Arsenic | 3.4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Barium | 121 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Beryllium | 0.88 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Calcium | 18700 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Chromium | 12.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Cobalt | 9.7 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Copper | 19.9 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Iron | 14100 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lead | 7.7 | | | mg/kg | 17-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Lithium | 11.5 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Magnesium | 9440 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Manganese | 398 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Mercury | 0.011 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Molybdenum | 0.58 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Nickel | 20.6 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Palladium | 0.25 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Phosphorus | 1650 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Potassium | 1160 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Silicon | 648 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Sodium | 455 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Strontium | 114 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Tin | 0.52 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Titanium | 512 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Tungsten | 0.89 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Uranium | 0.84 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Vanadium | 38.9 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Zinc | 46 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233026 | Soil | BRC-BKG-05CR-9-11 | Zirconium | 152 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Chloride | 252 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Nitrate | 9 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Sulfate | 29.2 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | CEC | 14.2 | | | meq/100g | 15-Jun-05 | | |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | pH (solid) | 8.2 | | | none | 15-Jun-05 | | |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Actinium 227 ^d | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|--------|
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Actinium 228 | 1.78 | | | pCi/g | 15-Jun-05 | 0.65 | 0.42 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Bismuth 211 ^f | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Bismuth 212 | 0.7 U | | | pCi/g | 15-Jun-05 | 0.63 | 0.74 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Bismuth 214 | 1.21 | | | pCi/g | 15-Jun-05 | 0.27 | 0.47 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Cobalt 57 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.035 | 0.064 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Cobalt 60 | -0.017 U | | | pCi/g | 15-Jun-05 | 0.062 | 0.11 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lead 210 | 0.5 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lead 211 ^g | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lead 212 | 1.62 | | | pCi/g | 15-Jun-05 | 0.25 | 0.14 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lead 214 | 0.83 | | | pCi/g | 15-Jun-05 | 0.22 | 0.17 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Polonium 210 ^h | 0.5 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Polonium 212 ⁱ | 0.45 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.47 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Polonium 214 ^j | 1.21 | | | pCi/g | 15-Jun-05 | 0.27 | 0.19 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Polonium 215 ^k | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Polonium 216 ^l | 1.62 | | | pCi/g | 15-Jun-05 | 0.25 | 0.14 |
| HDWLW1F1 | Soil | BRC-BKG-06A-0-0.5 | Polonium 218 ^m | 1.06 | J | n | pCi/g | 15-Jun-05 | 0.14 | 0.0925 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Potassium 40 | 22.4 | | | pCi/g | 15-Jun-05 | 3.6 | 1 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Protactinium 234 | 0.004 U | | | pCi/g | 15-Jun-05 | 0.17 | 0.3 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Radium 223 ⁿ | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Radium 224 ^o | 1.62 | | | pCi/g | 15-Jun-05 | 0.25 | 0.14 |
| HDWLW1F1 | Soil | BRC-BKG-06A-0-0.5 | Radium 226 | 1.06 | J | n | pCi/g | 15-Jun-05 | 0.14 | 0.0925 |
| HDWLW1F2 | Soil | BRC-BKG-06A-0-0.5 | Radium 228 | 2.03 | | | pCi/g | 15-Jun-05 | 0.26 | 0.744 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thallium 207 ^p | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thallium 208 | 0.59 | | | pCi/g | 15-Jun-05 | 0.14 | 0.12 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 227 | -0.29 U | | | pCi/g | 15-Jun-05 | 0.51 | 0.84 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 228 | 1.67 | | | pCi/g | 15-Jun-05 | 0.31 | 0.09 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 230 | 1.23 | | | pCi/g | 15-Jun-05 | 0.26 | 0.05 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 231 | 0.038 U | | | pCi/g | 15-Jun-05 | 0.055 | 0.076 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 232 | 1.82 | | | pCi/g | 15-Jun-05 | 0.32 | 0.06 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thorium 234 | 1.5 | | | pCi/g | 15-Jun-05 | 0.69 | 1.2 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Uranium 233/234 | 0.96 J | | | pCi/g | 15-Jun-05 | 0.24 | 0.11 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Uranium 235 | 0.038 U | | | pCi/g | 15-Jun-05 | 0.055 | 0.076 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Uranium 238 | 0.92 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.08 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Moisture (%) | 1.1 | | | percent | 15-Jun-05 | | |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Aluminum | 11600 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Antimony | 0.28 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Arsenic | 5.4 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Barium | 150 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Beryllium | 0.69 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Boron | 7.5 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Calcium | 34200 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Chromium | 15 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Cobalt | 8.4 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Copper | 15.4 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Iron | 16600 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lead | 10.3 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Lithium | 20.4 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Magnesium | 11700 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Manganese | 387 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Mercury | 0.019 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Molybdenum | 0.43 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Nickel | 15.4 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Niobium | 2.5 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Palladium | 0.36 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Phosphorus | 1410 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Potassium | 2350 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Selenium | 0.37 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Silicon | 1300 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Sodium | 585 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Strontium | 159 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Thallium | 0.57 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Tin | 0.51 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Titanium | 478 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Tungsten | 1 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Uranium | 0.81 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Vanadium | 31.6 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Zinc | 51.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373001 | Soil | BRC-BKG-06A-0-0.5 | Zirconium | 117 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Chloride | 870 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Nitrate | 13.4 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Sulfate | 320 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | CEC | 16.6 | | | meq/100g | 15-Jun-05 | | |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | pH (solid) | 8.1 | | | none | 15-Jun-05 | | |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Actinium 227 ^d | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Actinium 228 | 1.71 | | | pCi/g | 15-Jun-05 | 0.59 | 0.39 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Bismuth 210 ^e | 0.18 U | | | pCi/g | 15-Jun-05 | 0.99 | 1.8 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Bismuth 211 ^f | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Bismuth 212 | 1.4 | | | pCi/g | 15-Jun-05 | 0.58 | 0.66 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Bismuth 214 | 0.73 | | | pCi/g | 15-Jun-05 | 0.23 | 0.35 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Cobalt 57 | -0.004 U | | | pCi/g | 15-Jun-05 | 0.026 | 0.044 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Cobalt 60 | 0.023 U | | | pCi/g | 15-Jun-05 | 0.048 | 0.1 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lead 210 | 0.18 U | | | pCi/g | 15-Jun-05 | 0.99 | 1.8 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lead 211 ^g | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lead 212 | 1.24 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lead 214 | 0.8 | | | pCi/g | 15-Jun-05 | 0.18 | 0.14 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Polonium 210 ^h | 0.18 U | | | pCi/g | 15-Jun-05 | 0.99 | 1.8 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Polonium 212 ⁱ | 0.89 | | | pCi/g | 15-Jun-05 | 0.37 | 0.42 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Polonium 214 ^j | 0.73 | | | pCi/g | 15-Jun-05 | 0.23 | 0.16 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Polonium 215 ^k | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Polonium 216 ^l | 1.24 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| HDWL31C4 | Soil | BRC-BKG-06A-4-6 | Polonium 218 ^m | 1.18 | J | n | pCi/g | 15-Jun-05 | 0.16 | 0.0577 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Potassium 40 | 23 | | | pCi/g | 15-Jun-05 | 3.3 | 0.8 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Protactinium 234 | -0.06 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.21 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Radium 223 ⁿ | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Radium 224 ^o | 1.24 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| HDWL31C4 | Soil | BRC-BKG-06A-4-6 | Radium 226 | 1.18 | J | n | pCi/g | 15-Jun-05 | 0.16 | 0.0577 |
| HDWL31C5 | Soil | BRC-BKG-06A-4-6 | Radium 228 | 1.69 J | J | k | pCi/g | 15-Jun-05 | 0.25 | 0.821 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thallium 207 ^p | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thallium 208 | 0.44 | | | pCi/g | 15-Jun-05 | 0.1 | 0.07 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 227 | -0.07 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.67 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 228 | 1.79 | | | pCi/g | 15-Jun-05 | 0.39 | 0.29 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 230 | 1.21 | | | pCi/g | 15-Jun-05 | 0.27 | 0.11 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 231 | 0.034 U | | | pCi/g | 15-Jun-05 | 0.059 | 0.087 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 232 | 1.7 | | | pCi/g | 15-Jun-05 | 0.33 | 0.07 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thorium 234 | -0.26 U | | | pCi/g | 15-Jun-05 | 0.69 | 1 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Uranium 233/234 | 1.07 | | | pCi/g | 15-Jun-05 | 0.25 | 0.11 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Uranium 235 | 0.034 U | | | pCi/g | 15-Jun-05 | 0.059 | 0.087 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Uranium 238 | 0.91 J | | | pCi/g | 15-Jun-05 | 0.23 | 0.08 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Moisture (%) | 2.4 | | | percent | 15-Jun-05 | | |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Aluminum | 11700 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Arsenic | 4.9 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Barium | 213 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Beryllium | 0.69 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Boron | 9.1 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Calcium | 38500 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Chromium | 11.2 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Cobalt | 10.2 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Copper | 17.1 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Iron | 17000 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lead | 9.2 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Lithium | 21.3 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Magnesium | 13600 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Manganese | 553 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Mercury | 0.02 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Molybdenum | 0.73 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Nickel | 15.6 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Niobium | 2.1 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Palladium | 0.72 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Phosphorus | 1590 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Platinum | 0.045 B | J | g | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Potassium | 1350 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Selenium | 0.27 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Silicon | 887 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Sodium | 1150 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Strontium | 321 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Tin | 0.52 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Titanium | 545 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Tungsten | 1.8 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Uranium | 1.2 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Vanadium | 42.9 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Zinc | 48.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373002 | Soil | BRC-BKG-06A-4-6 | Zirconium | 139 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Chloride | 337 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Nitrate | 2.3 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Sulfate | 44.2 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | CEC | 8.2 | | | meq/100g | 15-Jun-05 | | |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | pH (solid) | 8.7 | | | none | 15-Jun-05 | | |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Actinium 227 ^d | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Actinium 228 | 1.71 | | | pCi/g | 15-Jun-05 | 0.63 | 0.34 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Bismuth 210 ^e | 0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Bismuth 211 ^f | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|-------|
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Bismuth 212 | 0.96 U | | | pCi/g | 15-Jun-05 | 0.51 | 1.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Bismuth 214 | 1.18 | | | pCi/g | 15-Jun-05 | 0.24 | 0.46 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Cobalt 57 | 0.005 U | | | pCi/g | 15-Jun-05 | 0.031 | 0.054 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Cobalt 60 | 0.015 U | | | pCi/g | 15-Jun-05 | 0.046 | 0.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lead 210 | 0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lead 211 ^g | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lead 212 | 1.25 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lead 214 | 1.49 | | | pCi/g | 15-Jun-05 | 0.29 | 0.15 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Polonium 210 ^h | 0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Polonium 212 ⁱ | 0.61 U | | | pCi/g | 15-Jun-05 | 0.33 | 0.7 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Polonium 214 ^j | 1.18 | | | pCi/g | 15-Jun-05 | 0.24 | 0.17 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Polonium 215 ^k | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Polonium 216 ^l | 1.25 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| HDWL61C4 | Soil | BRC-BKG-06A-9-11 | Polonium 218 ^m | 1.53 | J | n | pCi/g | 15-Jun-05 | 0.19 | 0.128 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Potassium 40 | 23.2 | | | pCi/g | 15-Jun-05 | 3.5 | 0.9 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Protactinium 234 | -0.17 U | | | pCi/g | 15-Jun-05 | 0.17 | 0.27 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Radium 223 ⁿ | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Radium 224 ^o | 1.25 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| HDWL61C4 | Soil | BRC-BKG-06A-9-11 | Radium 226 | 1.53 | J | n | pCi/g | 15-Jun-05 | 0.19 | 0.128 |
| HDWL61C5 | Soil | BRC-BKG-06A-9-11 | Radium 228 | 1.74 J | J | k | pCi/g | 15-Jun-05 | 0.24 | 0.72 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thallium 207 ^p | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thallium 208 | 0.61 | | | pCi/g | 15-Jun-05 | 0.14 | 0.08 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 227 | -0.07 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.77 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 228 | 1.5 | | | pCi/g | 15-Jun-05 | 0.34 | 0.18 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 230 | 1.92 | | | pCi/g | 15-Jun-05 | 0.37 | 0.09 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 231 | 0.052 U | | | pCi/g | 15-Jun-05 | 0.07 | 0.093 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 232 | 1.59 | | | pCi/g | 15-Jun-05 | 0.33 | 0.06 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thorium 234 | 1.55 | | | pCi/g | 15-Jun-05 | 0.74 | 1.3 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Uranium 233/234 | 1.84 | | | pCi/g | 15-Jun-05 | 0.38 | 0.13 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Uranium 235 | 0.052 U | | | pCi/g | 15-Jun-05 | 0.07 | 0.093 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Uranium 238 | 1.59 | | | pCi/g | 15-Jun-05 | 0.35 | 0.08 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Moisture (%) | 2.5 | | | percent | 15-Jun-05 | | |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Aluminum | 10300 NE | J | j | mg/kg | 15-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Arsenic | 5.7 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Barium | 142 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Beryllium | 0.5 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Boron | 6.2 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Calcium | 49100 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Chromium | 10.3 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Cobalt | 8.8 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Copper | 17.2 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Iron | 14100 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lead | 5.3 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Lithium | 24.4 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Magnesium | 13500 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Manganese | 351 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Mercury | 0.018 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Molybdenum | 0.63 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Nickel | 15.2 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Palladium | 0.77 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Phosphorus | 1440 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Potassium | 879 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Silicon | 687 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Sodium | 1060 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Strontium | 379 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Tin | 0.39 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Titanium | 533 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Tungsten | 1.7 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Uranium | 1.4 | | | mg/kg | 15-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Vanadium | 45.6 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Zinc | 39.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373003 | Soil | BRC-BKG-06A-9-11 | Zirconium | 119 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Chloride | 3.4 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Fluoride | 1.1 | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Nitrate | U | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Sulfate | 23.3 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | CEC | 8.6 | | | meq/100g | 15-Jun-05 | | |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | pH (solid) | 9.2 | | | none | 15-Jun-05 | | |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Actinium 227 ^d | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Actinium 228 | 2.09 | | | pCi/g | 15-Jun-05 | 0.74 | 0.47 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Bismuth 210 ^e | 1.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Bismuth 211 ^f | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Bismuth 212 | 0.98 | | | pCi/g | 15-Jun-05 | 0.7 | 0.86 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Bismuth 214 | 0.87 | | | pCi/g | 15-Jun-05 | 0.25 | 0.39 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Cobalt 57 | 0.026 U | | | pCi/g | 15-Jun-05 | 0.029 | 0.052 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Cobalt 60 | 0.011 U | | | pCi/g | 15-Jun-05 | 0.061 | 0.12 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lead 210 | 1.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lead 211 ^g | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lead 212 | 1.46 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lead 214 | 0.98 | | | pCi/g | 15-Jun-05 | 0.23 | 0.17 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Polonium 210 ^h | 1.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Polonium 212 ⁱ | 0.63 | | | pCi/g | 15-Jun-05 | 0.45 | 0.55 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Polonium 214 ^j | 0.87 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Polonium 215 ^k | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Polonium 216 ^l | 1.46 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| HDWL71C4 | Soil | BRC-BKG-06B-0-0.5 | Polonium 218 ^m | 1.02 | | | pCi/g | 15-Jun-05 | 0.15 | 0.211 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Potassium 40 | 24.6 | | | pCi/g | 15-Jun-05 | 3.7 | 0.9 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Protactinium 234 | -0.15 U | | | pCi/g | 15-Jun-05 | 0.16 | 0.26 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Radium 223 ⁿ | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Radium 224 ^o | 1.46 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HDWL71C4 | Soil | BRC-BKG-06B-0-0.5 | Radium 226 | 1.02 | | | pCi/g | 15-Jun-05 | 0.15 | 0.211 |
| HDWL71C5 | Soil | BRC-BKG-06B-0-0.5 | Radium 228 | 1.85 J | J | k | pCi/g | 15-Jun-05 | 0.24 | 0.66 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thallium 207 ^P | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thallium 208 | 0.69 | | | pCi/g | 15-Jun-05 | 0.15 | 0.11 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 227 | 0.2 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.73 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 228 | 2.09 | | | pCi/g | 15-Jun-05 | 0.37 | 0.16 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 230 | 1.26 | | | pCi/g | 15-Jun-05 | 0.27 | 0.1 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 231 | 0.09 J | | | pCi/g | 15-Jun-05 | 0.073 | 0.035 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 232 | 2.08 | | | pCi/g | 15-Jun-05 | 0.36 | 0.07 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thorium 234 | 1.84 | | | pCi/g | 15-Jun-05 | 0.53 | 0.95 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Uranium 233/234 | 1.23 | | | pCi/g | 15-Jun-05 | 0.27 | 0.07 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Uranium 235 | 0.09 J | | | pCi/g | 15-Jun-05 | 0.073 | 0.035 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Uranium 238 | 0.94 J | | | pCi/g | 15-Jun-05 | 0.23 | 0.05 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Moisture (%) | 1 | | | percent | 15-Jun-05 | | |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Aluminum | 13800 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Antimony | 0.12 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Arsenic | 6.3 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Barium | 193 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Beryllium | 0.77 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Boron | 8.3 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Calcium | 31400 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Chromium | 14.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Cobalt | 10.1 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Copper | 19.2 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Iron | 17200 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lead | 10.5 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Lithium | 22 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Magnesium | 14600 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Manganese | 534 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Mercury | 0.0093 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Molybdenum | 0.64 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Nickel | 19.4 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Palladium | 0.38 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Phosphorus | 1460 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Potassium | 2740 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Selenium | 0.23 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Silicon | 1230 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Sodium | 551 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Strontium | 163 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Thallium | 0.6 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Tin | 0.61 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Titanium | 589 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Uranium | 1.1 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Vanadium | 42.1 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Zinc | 51.2 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373004 | Soil | BRC-BKG-06B-0-0.5 | Zirconium | 120 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Chloride | 758 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Nitrate | 6.6 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Sulfate | 361 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | CEC | 8.7 | | | meq/100g | 15-Jun-05 | | |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | pH (solid) | 8.4 | | | none | 15-Jun-05 | | |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Actinium 227 ^d | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Actinium 228 | 1.64 | | | pCi/g | 15-Jun-05 | 0.65 | 0.41 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Bismuth 210 ^e | -0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Bismuth 211 ^f | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Bismuth 212 | 0.85 U | | | pCi/g | 15-Jun-05 | 0.54 | 1.1 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Bismuth 214 | 0.96 | | | pCi/g | 15-Jun-05 | 0.23 | 0.41 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Cobalt 57 | -0.014 U | | | pCi/g | 15-Jun-05 | 0.031 | 0.052 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Cobalt 60 | -0.008 U | | | pCi/g | 15-Jun-05 | 0.059 | 0.11 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lead 210 | -0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lead 211 ^g | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lead 212 | 1.29 | | | pCi/g | 15-Jun-05 | 0.24 | 0.2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lead 214 | 0.8 | | | pCi/g | 15-Jun-05 | 0.26 | 0.19 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Polonium 210 ^h | -0.1 U | | | pCi/g | 15-Jun-05 | 1.2 | 2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Polonium 212 ⁱ | 0.55 U | | | pCi/g | 15-Jun-05 | 0.34 | 0.7 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Polonium 214 ^j | 0.96 | | | pCi/g | 15-Jun-05 | 0.23 | 0.17 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Polonium 215 ^k | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Polonium 216 ^l | 1.29 | | | pCi/g | 15-Jun-05 | 0.24 | 0.2 |
| HDWL91C4 | Soil | BRC-BKG-06B-4-6 | Polonium 218 ^m | 1.09 | J | n | pCi/g | 15-Jun-05 | 0.14 | 0.147 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Potassium 40 | 20.6 | | | pCi/g | 15-Jun-05 | 3.3 | 0.9 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Protactinium 234 | -0.06 U | | | pCi/g | 15-Jun-05 | 0.16 | 0.27 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Radium 223 ⁿ | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Radium 224 ^o | 1.29 | | | pCi/g | 15-Jun-05 | 0.24 | 0.2 |
| HDWL91C4 | Soil | BRC-BKG-06B-4-6 | Radium 226 | 1.09 | J | n | pCi/g | 15-Jun-05 | 0.14 | 0.147 |
| HDWL91C5 | Soil | BRC-BKG-06B-4-6 | Radium 228 | 2.02 | | | pCi/g | 15-Jun-05 | 0.25 | 0.704 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thallium 207 ^p | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thallium 208 | 0.43 | | | pCi/g | 15-Jun-05 | 0.13 | 0.09 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 227 | -0.02 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.72 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 228 | 1.62 | | | pCi/g | 15-Jun-05 | 0.32 | 0.15 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 230 | 1.18 | | | pCi/g | 15-Jun-05 | 0.25 | 0.06 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 231 | 0.055 J | | | pCi/g | 15-Jun-05 | 0.062 | 0.038 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 232 | 1.24 | | | pCi/g | 15-Jun-05 | 0.26 | 0.07 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thorium 234 | 1.54 | | | pCi/g | 15-Jun-05 | 0.78 | 1.1 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Uranium 233/234 | 1.21 | | | pCi/g | 15-Jun-05 | 0.28 | 0.09 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Uranium 235 | 0.055 J | | | pCi/g | 15-Jun-05 | 0.062 | 0.038 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Uranium 238 | 1.09 | | | pCi/g | 15-Jun-05 | 0.26 | 0.07 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Moisture (%) | 3.5 | | | percent | 15-Jun-05 | | |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Aluminum | 11600 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Antimony | 0.17 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Arsenic | 5.1 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Barium | 210 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Beryllium | 0.64 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Boron | 6.3 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Calcium | 49100 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Chromium | 9.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Cobalt | 10.3 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Copper | 19 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Iron | 15500 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lead | 6.9 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Lithium | 17.1 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Magnesium | 13600 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Manganese | 478 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Mercury | 0.023 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Molybdenum | 0.49 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Nickel | 17.2 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Palladium | 0.84 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Phosphorus | 1550 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Potassium | 1310 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Selenium | 0.35 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Silicon | 792 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Sodium | 1320 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Strontium | 347 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Tin | 0.46 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Titanium | 651 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Uranium | 1.3 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Vanadium | 48 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Zinc | 41.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373005 | Soil | BRC-BKG-06B-4-6 | Zirconium | 135 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Chloride | 209 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Nitrate | 0.85 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Sulfate | 32.4 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | CEC | 14.6 | | | meq/100g | 15-Jun-05 | | |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | pH (solid) | 8.7 | | | none | 15-Jun-05 | | |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Actinium 227 ^d | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Actinium 228 | 1.69 | | | pCi/g | 15-Jun-05 | 0.65 | 0.37 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Bismuth 211 ^f | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Bismuth 212 | 0.6 U | | | pCi/g | 15-Jun-05 | 0.47 | 0.96 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Bismuth 214 | 0.9 | | | pCi/g | 15-Jun-05 | 0.24 | 0.17 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Cobalt 57 | 0.017 U | | | pCi/g | 15-Jun-05 | 0.031 | 0.056 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Cobalt 60 | 0.043 U | | | pCi/g | 15-Jun-05 | 0.047 | 0.11 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lead 210 | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lead 211 ^g | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lead 212 | 1.4 | | | pCi/g | 15-Jun-05 | 0.22 | 0.11 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lead 214 | 1 | | | pCi/g | 15-Jun-05 | 0.23 | 0.14 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Polonium 210 ^h | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Polonium 212 ⁱ | 0.39 U | | | pCi/g | 15-Jun-05 | 0.3 | 0.61 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Polonium 214 ^j | 0.9 | | | pCi/g | 15-Jun-05 | 0.24 | 0.17 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Polonium 215 ^k | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Polonium 216 ^l | 1.4 | | | pCi/g | 15-Jun-05 | 0.22 | 0.11 |
| HDWMA1C4 | Soil | BRC-BKG-06B-9-11 | Polonium 218 ^m | 0.984 J | J | k | pCi/g | 15-Jun-05 | 0.12 | 0.0952 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Potassium 40 | 22.4 | | | pCi/g | 15-Jun-05 | 3.4 | 1.1 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Protactinium 234 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.16 | 0.27 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Radium 223 ⁿ | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Radium 224 ^o | 1.4 | | | pCi/g | 15-Jun-05 | 0.22 | 0.11 |
| HDWMA1C4 | Soil | BRC-BKG-06B-9-11 | Radium 226 | 0.984 J | J | k | pCi/g | 15-Jun-05 | 0.12 | 0.0952 |
| HDWMA1C5 | Soil | BRC-BKG-06B-9-11 | Radium 228 | 1.86 J | J | k | pCi/g | 15-Jun-05 | 0.24 | 0.577 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thallium 207 ^p | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thallium 208 | 0.37 | | | pCi/g | 15-Jun-05 | 0.11 | 0.1 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 227 | 0.11 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.82 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 228 | 1.64 | | | pCi/g | 15-Jun-05 | 0.32 | 0.14 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 230 | 1.45 | | | pCi/g | 15-Jun-05 | 0.29 | 0.08 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 231 | 0.092 J | | | pCi/g | 15-Jun-05 | 0.075 | 0.036 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 232 | 1.33 | | | pCi/g | 15-Jun-05 | 0.27 | 0.06 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thorium 234 | 0.43 U | | | pCi/g | 15-Jun-05 | 0.65 | 1.1 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Uranium 233/234 | 1.37 | | | pCi/g | 15-Jun-05 | 0.29 | 0.06 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Uranium 235 | 0.092 J | | | pCi/g | 15-Jun-05 | 0.075 | 0.036 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Uranium 238 | 1.47 | | | pCi/g | 15-Jun-05 | 0.3 | 0.06 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Moisture (%) | 3.5 | | | percent | 15-Jun-05 | | |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Aluminum | 10800 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Arsenic | 4.7 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Barium | 202 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Beryllium | 0.63 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Boron | 4.3 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Calcium | 45100 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Chromium | 9.4 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Cobalt | 9.9 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Copper | 16.1 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Iron | 15300 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lead | 6.7 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Lithium | 18.5 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Magnesium | 12700 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Manganese | 446 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Mercury | 0.014 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Molybdenum | 0.38 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Nickel | 15.2 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Palladium | 0.88 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Phosphorus | 1450 | | | mg/kg | 15-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Potassium | 898 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Silicon | 620 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Sodium | 980 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Strontium | 411 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Thallium | 0.36 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Tin | 0.39 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Titanium | 481 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Tungsten | 0.87 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Uranium | 1.2 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Vanadium | 47.3 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Zinc | 41.9 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373006 | Soil | BRC-BKG-06B-9-11 | Zirconium | 123 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Chloride | 1.3 B | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Fluoride | 0.37 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Nitrate | 0.14 B | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Sulfate | 3.4 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | CEC | 10.5 | | | meq/100g | 15-Jun-05 | | |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | pH (solid) | 9 | | | none | 15-Jun-05 | | |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Actinium 227 ^d | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Actinium 228 | 1.59 | | | pCi/g | 15-Jun-05 | 0.58 | 0.31 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Bismuth 210 ^e | 1.19 U | | | pCi/g | 15-Jun-05 | 0.98 | 1.9 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Bismuth 211 ^f | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Bismuth 212 | 1.09 | | | pCi/g | 15-Jun-05 | 0.45 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Bismuth 214 | 0.63 | | | pCi/g | 15-Jun-05 | 0.2 | 0.36 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Cobalt 57 | -0.002 U | | | pCi/g | 15-Jun-05 | 0.027 | 0.046 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Cobalt 60 | -0.053 U | | | pCi/g | 15-Jun-05 | 0.06 | 0.097 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lead 210 | 1.19 U | | | pCi/g | 15-Jun-05 | 0.98 | 1.9 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lead 211 ^g | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lead 212 | 1.42 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lead 214 | 0.84 | | | pCi/g | 15-Jun-05 | 0.19 | 0.16 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Polonium 210 ^h | 1.19 U | | | pCi/g | 15-Jun-05 | 0.98 | 1.9 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Polonium 212 ⁱ | 0.7 | | | pCi/g | 15-Jun-05 | 0.29 | 0.44 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Polonium 214 ^j | 0.63 | | | pCi/g | 15-Jun-05 | 0.2 | 0.2 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Polonium 215 ^k | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Polonium 216 ^l | 1.42 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| HDWMC1C4 | Soil | BRC-BKG-06C-0-0.5 | Polonium 218 ^m | 0.693 J | J | k | pCi/g | 15-Jun-05 | 0.1 | 0.127 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Potassium 40 | 21.4 | | | pCi/g | 15-Jun-05 | 3.1 | 5.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Protactinium 234 | -0.07 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.24 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Radium 223 ⁿ | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Radium 224 ^o | 1.42 | | | pCi/g | 15-Jun-05 | 0.24 | 0.16 |
| HDWMC1C4 | Soil | BRC-BKG-06C-0-0.5 | Radium 226 | 0.693 J | J | k | pCi/g | 15-Jun-05 | 0.1 | 0.127 |
| HDWMC1C5 | Soil | BRC-BKG-06C-0-0.5 | Radium 228 | 1.97 J | J | k | pCi/g | 15-Jun-05 | 0.24 | 0.556 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thallium 207 ^p | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thallium 208 | 0.5 | | | pCi/g | 15-Jun-05 | 0.12 | 0.09 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 227 | -0.27 U | | | pCi/g | 15-Jun-05 | 0.41 | 0.69 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 228 | 1.96 | | | pCi/g | 15-Jun-05 | 0.37 | 0.15 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 230 | 1.33 | | | pCi/g | 15-Jun-05 | 0.29 | 0.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 231 | 0 U | | | pCi/g | 15-Jun-05 | 0 | 0.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 232 | 2 | | | pCi/g | 15-Jun-05 | 0.36 | 0.05 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thorium 234 | 1.12 | | | pCi/g | 15-Jun-05 | 0.92 | 1.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Uranium 233/234 | 1.13 | | | pCi/g | 15-Jun-05 | 0.3 | 0.15 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Uranium 235 | 0 U | | | pCi/g | 15-Jun-05 | 0 | 0.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Uranium 238 | 0.91 J | | | pCi/g | 15-Jun-05 | 0.26 | 0.1 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Moisture (%) | 1.1 | | | percent | 15-Jun-05 | | |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Aluminum | 12400 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Antimony | 0.25 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Arsenic | 5.6 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Barium | 218 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Beryllium | 0.76 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Boron | 6.1 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Calcium | 33300 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Chromium | 13.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Cobalt | 9.5 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Copper | 19.1 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Iron | 17900 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lead | 10.9 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Lithium | 20.5 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Magnesium | 13400 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Manganese | 562 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Mercury | 0.012 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Molybdenum | 0.57 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Nickel | 16.6 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Palladium | 0.48 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Phosphorus | 1550 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Potassium | 2400 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Silicon | 1210 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Sodium | 337 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Strontium | 200 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Tin | 0.55 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Titanium | 540 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Tungsten | 0.89 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Uranium | 1 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Vanadium | 40.4 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Zinc | 52 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373007 | Soil | BRC-BKG-06C-0-0.5 | Zirconium | 123 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Chloride | 236 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Fluoride | 0.31 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Nitrate | 0.49 | | | mg/kg | 15-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Sulfate | 102 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | CEC | 6.2 | | | meq/100g | 15-Jun-05 | | |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | pH (solid) | 8.7 | | | none | 15-Jun-05 | | |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Actinium 227 ^d | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Actinium 228 | 1.7 | | | pCi/g | 15-Jun-05 | 0.63 | 0.38 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Bismuth 211 ^f | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Bismuth 212 | 0.54 U | | | pCi/g | 15-Jun-05 | 0.56 | 0.82 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Bismuth 214 | 0.74 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Cobalt 57 | 0.016 U | | | pCi/g | 15-Jun-05 | 0.03 | 0.055 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Cobalt 60 | 0.013 U | | | pCi/g | 15-Jun-05 | 0.05 | 0.11 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lead 210 | 0.3 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lead 211 ^g | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lead 212 | 1.08 | | | pCi/g | 15-Jun-05 | 0.23 | 0.17 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lead 214 | 0.88 | | | pCi/g | 15-Jun-05 | 0.21 | 0.15 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Polonium 210 ^h | 0.3 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Polonium 212 ⁱ | 0.35 U | | | pCi/g | 15-Jun-05 | 0.36 | 0.52 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Polonium 214 ^j | 0.74 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Polonium 215 ^k | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Polonium 216 ^l | 1.08 | | | pCi/g | 15-Jun-05 | 0.23 | 0.17 |
| HDWMD1C4 | Soil | BRC-BKG-06C-4-6 | Polonium 218 ^m | 0.807 J | J | k, n | pCi/g | 15-Jun-05 | 0.11 | 0.0558 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Potassium 40 | 22.2 | | | pCi/g | 15-Jun-05 | 3.5 | 0.9 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Protactinium 234 | -0.1 U | | | pCi/g | 15-Jun-05 | 0.16 | 0.26 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Radium 223 ⁿ | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Radium 224 ^o | 1.08 | | | pCi/g | 15-Jun-05 | 0.23 | 0.17 |
| HDWMD1C4 | Soil | BRC-BKG-06C-4-6 | Radium 226 | 0.807 J | J | k, n | pCi/g | 15-Jun-05 | 0.11 | 0.0558 |
| HDWMD1C5 | Soil | BRC-BKG-06C-4-6 | Radium 228 | 1.15 J | J | k | pCi/g | 15-Jun-05 | 0.19 | 0.552 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thallium 207 ^p | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thallium 208 | 0.48 | | | pCi/g | 15-Jun-05 | 0.12 | 0.09 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 227 | -0.32 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.7 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 228 | 1.41 | | | pCi/g | 15-Jun-05 | 0.3 | 0.14 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 230 | 1.5 | | | pCi/g | 15-Jun-05 | 0.3 | 0.07 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 231 | 0.048 U | | | pCi/g | 15-Jun-05 | 0.062 | 0.081 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 232 | 1.3 | | | pCi/g | 15-Jun-05 | 0.28 | 0.05 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thorium 234 | 0.84 U | | | pCi/g | 15-Jun-05 | 0.67 | 1.2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Uranium 233/234 | 1.24 | | | pCi/g | 15-Jun-05 | 0.27 | 0.1 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Uranium 235 | 0.048 U | | | pCi/g | 15-Jun-05 | 0.062 | 0.081 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Uranium 238 | 1.23 | | | pCi/g | 15-Jun-05 | 0.27 | 0.09 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Moisture (%) | 3.8 | | | percent | 15-Jun-05 | | |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Aluminum | 10300 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Arsenic | 5.5 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Barium | 204 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Beryllium | 0.62 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Boron | 5.4 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Calcium | 65900 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Chromium | 9.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Cobalt | 9.7 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Copper | 18.8 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Iron | 16100 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lead | 7.2 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Lithium | 17.3 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Magnesium | 12300 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Manganese | 559 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Mercury | 0.012 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Molybdenum | 0.52 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Nickel | 16.3 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Palladium | 0.68 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Phosphorus | 1490 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Potassium | 1160 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Silicon | 742 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Sodium | 1070 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Strontium | 320 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Tin | 0.44 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Titanium | 590 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Tungsten | 0.88 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Uranium | 1.3 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Vanadium | 47.6 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Zinc | 39.7 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373008 | Soil | BRC-BKG-06C-4-6 | Zirconium | 134 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Chloride | 17.7 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Fluoride | 0.16 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Nitrate | 0.13 B | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Sulfate | 14.8 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | CEC | 16.4 | | | meq/100g | 15-Jun-05 | | |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | pH (solid) | 9.3 | | | none | 15-Jun-05 | | |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Actinium 227 ^d | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Actinium 228 | 1.18 | | | pCi/g | 15-Jun-05 | 0.53 | 0.41 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Bismuth 211 ^f | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Bismuth 212 | 1.1 | | | pCi/g | 15-Jun-05 | 0.57 | 0.79 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Bismuth 214 | 1.19 | | | pCi/g | 15-Jun-05 | 0.26 | 0.44 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Cobalt 57 | -0.01 U | | | pCi/g | 15-Jun-05 | 0.029 | 0.051 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Cobalt 60 | -0.009 U | | | pCi/g | 15-Jun-05 | 0.05 | 0.096 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lead 210 | 0.6 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lead 211 ^g | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lead 212 | 1.2 | | | pCi/g | 15-Jun-05 | 0.19 | 0.14 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lead 214 | 0.82 | | | pCi/g | 15-Jun-05 | 0.21 | 0.16 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Polonium 210 ^h | 0.6 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Polonium 212 ⁱ | 0.7 | | | pCi/g | 15-Jun-05 | 0.37 | 0.51 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Polonium 214 ^j | 1.19 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Polonium 215 ^k | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Polonium 216 ^l | 1.2 | | | pCi/g | 15-Jun-05 | 0.19 | 0.14 |
| HDWME1C4 | Soil | BRC-BKG-06C-8-12 | Polonium 218 ^m | 1.34 | | | pCi/g | 15-Jun-05 | 0.16 | 0.126 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Potassium 40 | 23.4 | | | pCi/g | 15-Jun-05 | 3.5 | 0.9 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Protactinium 234 | -0.08 U | | | pCi/g | 15-Jun-05 | 0.15 | 0.26 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Radium 223 ⁿ | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Radium 224 ^o | 1.2 | | | pCi/g | 15-Jun-05 | 0.19 | 0.14 |
| HDWME1C4 | Soil | BRC-BKG-06C-8-12 | Radium 226 | 1.34 | | | pCi/g | 15-Jun-05 | 0.16 | 0.126 |
| HDWME1C5 | Soil | BRC-BKG-06C-8-12 | Radium 228 | 2.02 | | | pCi/g | 15-Jun-05 | 0.26 | 0.601 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thallium 207 ^p | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thallium 208 | 0.48 | | | pCi/g | 15-Jun-05 | 0.13 | 0.07 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 227 | -0.37 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.73 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 228 | 1.5 | | | pCi/g | 15-Jun-05 | 0.35 | 0.18 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 230 | 1.61 | | | pCi/g | 15-Jun-05 | 0.35 | 0.1 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 231 | 0.107 J | | | pCi/g | 15-Jun-05 | 0.079 | 0.058 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 232 | 1.28 | | | pCi/g | 15-Jun-05 | 0.3 | 0.09 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thorium 234 | 1.52 | | | pCi/g | 15-Jun-05 | 0.51 | 1 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Uranium 233/234 | 1.21 | | | pCi/g | 15-Jun-05 | 0.27 | 0.08 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Uranium 235 | 0.107 J | | | pCi/g | 15-Jun-05 | 0.079 | 0.058 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Uranium 238 | 1.59 | | | pCi/g | 15-Jun-05 | 0.32 | 0.03 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Moisture (%) | 3.5 | | | percent | 15-Jun-05 | | |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Aluminum | 11600 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Arsenic | 4.4 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Barium | 169 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Beryllium | 0.62 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Boron | 4 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Calcium | 47000 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Chromium | 8.6 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Cobalt | 10.2 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Copper | 19.1 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Iron | 15600 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lead | 5.6 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Lithium | 19.5 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Magnesium | 13000 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Manganese | 432 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Mercury | 0.011 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Molybdenum | 0.38 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Nickel | 17.9 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Palladium | 0.88 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Phosphorus | 1640 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Potassium | 792 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Silicon | 712 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Sodium | 852 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Strontium | 394 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Thallium | U | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Tin | 0.38 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Titanium | 503 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Tungsten | 0.67 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Uranium | 1.3 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Vanadium | 46.2 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Zinc | 40 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373009 | Soil | BRC-BKG-06C-8-12 | Zirconium | 124 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Chloride | 219 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Fluoride | 0.61 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Nitrate | 53.4 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Sulfate | 570 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | CEC | 8.9 | | | meq/100g | 16-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | pH (solid) | 8.1 | J | h | none | 16-Jun-05 | | |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Actinium 227 ^d | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Actinium 228 | 1.77 | | | pCi/g | 16-Jun-05 | 0.6 | 0.45 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Bismuth 211 ^f | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Bismuth 212 | 1.13 U | | | pCi/g | 16-Jun-05 | 0.56 | 1.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Bismuth 214 | 1.16 | | | pCi/g | 16-Jun-05 | 0.26 | 0.17 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Cobalt 57 | 0.029 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.055 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Cobalt 60 | -0.028 U | | | pCi/g | 16-Jun-05 | 0.064 | 0.11 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lead 210 | 0.6 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lead 211 ^g | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lead 212 | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lead 214 | 1.09 | | | pCi/g | 16-Jun-05 | 0.23 | 0.16 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Polonium 210 ^h | 0.6 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Polonium 212 ⁱ | 0.73 U | | | pCi/g | 16-Jun-05 | 0.36 | 0.73 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Polonium 214 ^j | 1.16 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Polonium 215 ^k | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Polonium 216 ^l | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHA1C4 | Soil | BRC-BKG-07A-0-0.5 | Polonium 218 ^m | 1.27 | | | pCi/g | 16-Jun-05 | 0.15 | 0.143 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Potassium 40 | 24.1 | | | pCi/g | 16-Jun-05 | 3.5 | 5.6 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Protactinium 234 | -0.14 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.26 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Radium 223 ⁿ | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Radium 224 ^o | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.13 |
| HDXHA1C4 | Soil | BRC-BKG-07A-0-0.5 | Radium 226 | 1.27 | | | pCi/g | 16-Jun-05 | 0.15 | 0.143 |
| HDXHA1C5 | Soil | BRC-BKG-07A-0-0.5 | Radium 228 | 1.41 J | J | k | pCi/g | 16-Jun-05 | 0.2 | 0.557 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thallium 207 ^p | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thallium 208 | 0.57 | | | pCi/g | 16-Jun-05 | 0.15 | 0.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 227 | -0.13 U | | | pCi/g | 16-Jun-05 | 0.45 | 0.78 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 228 | 1.83 | | | pCi/g | 16-Jun-05 | 0.39 | 0.27 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 230 | 1.36 | | | pCi/g | 16-Jun-05 | 0.29 | 0.11 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 231 | 0.059 U | | | pCi/g | 16-Jun-05 | 0.076 | 0.099 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 232 | 1.89 | | | pCi/g | 16-Jun-05 | 0.35 | 0.09 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thorium 234 | 1.85 | | | pCi/g | 16-Jun-05 | 0.54 | 0.87 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Uranium 233/234 | 1.02 | U | b | pCi/g | 16-Jun-05 | 0.25 | 0.11 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Uranium 235 | 0.059 U | | | pCi/g | 16-Jun-05 | 0.076 | 0.099 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Uranium 238 | 0.92 J | J | k | pCi/g | 16-Jun-05 | 0.23 | 0.1 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Moisture (%) | 1.4 | | | percent | 16-Jun-05 | | |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Aluminum | 13100 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Antimony | 0.29 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Arsenic | 7.2 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Barium | 219 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Beryllium | 0.81 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Boron | 11.6 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Calcium | 43200 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Chromium | 15.5 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Cobalt | 9.6 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Copper | 20.4 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Iron | 16700 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lead | 10.1 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Lithium | 23.9 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Magnesium | 14400 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Manganese | 506 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Mercury | 0.0091 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Molybdenum | 0.84 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Nickel | 20.2 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Niobium | 1.8 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Palladium | 0.42 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Phosphorus | 1340 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Potassium | 3650 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Selenium | 0.34 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Silicon | 4150 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Sodium | 589 | | | mg/kg | 16-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Strontium | 190 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Thallium | 0.2 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Tin | 0.63 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Titanium | 481 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Tungsten | 1.9 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Uranium | 1.3 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Vanadium | 41.9 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Zinc | 121 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132006 | Soil | BRC-BKG-07A-0-0.5 | Zirconium | 118 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Chloride | 1060 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Fluoride | 0.55 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Nitrate | 34 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Sulfate | 182 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | CEC | 14.8 | | | meq/100g | 16-Jun-05 | | |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | pH (solid) | 8.1 | J | h | none | 16-Jun-05 | | |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Actinium 227 ^d | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Actinium 228 | 1.55 | | | pCi/g | 16-Jun-05 | 0.57 | 0.32 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Bismuth 211 ^f | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Bismuth 212 | 1.21 U | | | pCi/g | 16-Jun-05 | 0.59 | 1.2 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Bismuth 214 | 1.25 | | | pCi/g | 16-Jun-05 | 0.29 | 0.17 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Cobalt 57 | 0.001 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.055 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Cobalt 60 | 0.04 U | | | pCi/g | 16-Jun-05 | 0.055 | 0.12 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lead 210 | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lead 211 ^g | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lead 212 | 1.22 | | | pCi/g | 16-Jun-05 | 0.22 | 0.17 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lead 214 | 1.31 | | | pCi/g | 16-Jun-05 | 0.26 | 0.16 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Polonium 210 ^h | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Polonium 212 ⁱ | 0.78 U | | | pCi/g | 16-Jun-05 | 0.37 | 0.79 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Polonium 214 ^j | 1.25 | | | pCi/g | 16-Jun-05 | 0.29 | 0.17 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Polonium 215 ^k | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Polonium 216 ^l | 1.22 | | | pCi/g | 16-Jun-05 | 0.22 | 0.17 |
| HDXHD1C4 | Soil | BRC-BKG-07A-4-6 | Polonium 218 ^m | 1.38 | | | pCi/g | 16-Jun-05 | 0.16 | 0.0941 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Potassium 40 | 17.8 | | | pCi/g | 16-Jun-05 | 3.1 | 0.9 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Protactinium 234 | -0.08 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.27 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Radium 223 ⁿ | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Radium 224 ^o | 1.22 | | | pCi/g | 16-Jun-05 | 0.22 | 0.17 |
| HDXHD1C4 | Soil | BRC-BKG-07A-4-6 | Radium 226 | 1.38 | | | pCi/g | 16-Jun-05 | 0.16 | 0.0941 |
| HDXHD1C5 | Soil | BRC-BKG-07A-4-6 | Radium 228 | 1.3 J | J | k | pCi/g | 16-Jun-05 | 0.21 | 0.624 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thallium 207 ^p | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thallium 208 | 0.45 | | | pCi/g | 16-Jun-05 | 0.13 | 0.1 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 227 | 0.12 U | | | pCi/g | 16-Jun-05 | 0.46 | 0.84 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 228 | 1.34 | | | pCi/g | 16-Jun-05 | 0.36 | 0.3 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 230 | 1.73 | | | pCi/g | 16-Jun-05 | 0.34 | 0.11 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 231 | 0.093 J | U | b | pCi/g | 16-Jun-05 | 0.08 | 0.068 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 232 | 1.22 | | | pCi/g | 16-Jun-05 | 0.27 | 0.07 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thorium 234 | 0.75 U | | | pCi/g | 16-Jun-05 | 0.7 | 1.3 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Uranium 233/234 | 1.27 | | | pCi/g | 16-Jun-05 | 0.29 | 0.08 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Uranium 235 | 0.093 J | J | k | pCi/g | 16-Jun-05 | 0.08 | 0.068 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Uranium 238 | 1.66 | | | pCi/g | 16-Jun-05 | 0.33 | 0.03 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Moisture (%) | 3.7 | | | percent | 16-Jun-05 | | |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Aluminum | 7190 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Arsenic | 5.2 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Barium | 226 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Beryllium | 0.48 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Boron | 4.6 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Calcium | 82800 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Chromium | 6.7 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Cobalt | 6.4 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Copper | 13.1 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Iron | 10200 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lead | 5.9 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Lithium | 13.6 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Magnesium | 9370 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Manganese | 291 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Mercury | 0.022 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Molybdenum | 0.37 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Nickel | 11 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Palladium | 0.47 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Phosphorus | 1020 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Potassium | 1120 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Silicon | 850 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Sodium | 502 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Strontium | 244 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Thallium | U | | | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Tin | 0.48 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Titanium | 299 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Tungsten | 1.4 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Uranium | 1.2 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Vanadium | 32.6 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Zinc | 31.2 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132007 | Soil | BRC-BKG-07A-4-6 | Zirconium | 108 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Chloride | 73.6 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Fluoride | 0.79 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Nitrate | 6.2 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Sulfate | 48.5 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | CEC | 16 | | | meq/100g | 16-Jun-05 | | |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | pH (solid) | 8.8 | J | h | none | 16-Jun-05 | | |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Actinium 227 ^d | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Actinium 228 | 1.61 | | | pCi/g | 16-Jun-05 | 0.57 | 0.34 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Bismuth 211 ^f | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Bismuth 212 | 1.12 | | | pCi/g | 16-Jun-05 | 0.5 | 1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Bismuth 214 | 1.19 | | | pCi/g | 16-Jun-05 | 0.27 | 0.17 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Cobalt 57 | 0.015 U | | | pCi/g | 16-Jun-05 | 0.029 | 0.05 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Cobalt 60 | -0.019 U | | | pCi/g | 16-Jun-05 | 0.059 | 0.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lead 210 | 0.8 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lead 211 ^g | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lead 212 | 1.21 | | | pCi/g | 16-Jun-05 | 0.19 | 0.14 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lead 214 | 1.2 | | | pCi/g | 16-Jun-05 | 0.23 | 0.14 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Polonium 210 ^h | 0.8 U | | | pCi/g | 16-Jun-05 | 1.1 | 2.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Polonium 212 ⁱ | 0.72 | | | pCi/g | 16-Jun-05 | 0.32 | 0.65 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Polonium 214 ^j | 1.19 | | | pCi/g | 16-Jun-05 | 0.27 | 0.17 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Polonium 215 ^k | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Polonium 216 ^l | 1.21 | | | pCi/g | 16-Jun-05 | 0.19 | 0.14 |
| HDXHE1C4 | Soil | BRC-BKG-07A-9-11 | Polonium 218 ^m | 1.79 | | | pCi/g | 16-Jun-05 | 0.2 | 0.119 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Potassium 40 | 24.3 | | | pCi/g | 16-Jun-05 | 3.5 | 0.8 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Protactinium 234 | 0.01 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.25 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Radium 223 ⁿ | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Radium 224 ^o | 1.21 | | | pCi/g | 16-Jun-05 | 0.19 | 0.14 |
| HDXHE1C4 | Soil | BRC-BKG-07A-9-11 | Radium 226 | 1.79 | | | pCi/g | 16-Jun-05 | 0.2 | 0.119 |
| HDXHE1C5 | Soil | BRC-BKG-07A-9-11 | Radium 228 | 2.08 | | | pCi/g | 16-Jun-05 | 0.25 | 0.678 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thallium 207 ^p | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thallium 208 | 0.4 | | | pCi/g | 16-Jun-05 | 0.11 | 0.09 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 227 | -0.11 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.71 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 228 | 1.16 | | | pCi/g | 16-Jun-05 | 0.26 | 0.15 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 230 | 1.81 | | | pCi/g | 16-Jun-05 | 0.32 | 0.07 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 231 | 0.126 J | J+ | b | pCi/g | 16-Jun-05 | 0.089 | 0.038 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 232 | 1.26 | | | pCi/g | 16-Jun-05 | 0.26 | 0.05 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thorium 234 | 1.19 | | | pCi/g | 16-Jun-05 | 0.62 | 1.1 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Uranium 233/234 | 1.94 | | | pCi/g | 16-Jun-05 | 0.35 | 0.06 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Uranium 235 | 0.126 J | J | k | pCi/g | 16-Jun-05 | 0.089 | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|--------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Uranium 238 | 1.86 | | | pCi/g | 16-Jun-05 | 0.34 | 0.03 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Moisture (%) | 3.9 | | | percent | 16-Jun-05 | | |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Aluminum | 9210 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Arsenic | 4.1 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Barium | 231 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Beryllium | 0.52 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Boron | 3.7 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Calcium | 42500 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Chromium | 9.2 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Cobalt | 9 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Copper | 13.3 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Iron | 13500 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lead | 6 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Lithium | 16.5 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Magnesium | 11000 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Manganese | 452 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Mercury | 0.057 | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Molybdenum | 0.68 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Nickel | 13 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Palladium | 0.58 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Phosphorus | 1150 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Potassium | 625 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Silicon | 644 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Sodium | 502 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Strontium | 277 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Thallium | 0.39 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Tin | 0.33 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Titanium | 330 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Tungsten | 1.3 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Uranium | 0.93 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Vanadium | 44.9 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Zinc | 38.2 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132008 | Soil | BRC-BKG-07A-9-11 | Zirconium | 94.9 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Chloride | 1.7 B J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Nitrate | 0.28 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Sulfate | 2.9 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | CEC | 6.7 | | | meq/100g | 15-Jun-05 | | |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | pH (solid) | 8.8 | | | none | 15-Jun-05 | | |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Actinium 227 ^d | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Actinium 228 | 1.42 | | | pCi/g | 15-Jun-05 | 0.57 | 0.38 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Bismuth 211 ^f | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Bismuth 212 | 0.86 | | | pCi/g | 15-Jun-05 | 0.69 | 0.73 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Bismuth 214 | 0.92 | | | pCi/g | 15-Jun-05 | 0.23 | 0.37 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Cobalt 57 | -0.014 U | | | pCi/g | 15-Jun-05 | 0.029 | 0.048 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Cobalt 60 | 0.011 U | | | pCi/g | 15-Jun-05 | 0.062 | 0.12 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lead 210 | 0.8 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lead 211 ^g | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lead 212 | 1.54 | | | pCi/g | 15-Jun-05 | 0.23 | 0.12 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lead 214 | 1.17 | | | pCi/g | 15-Jun-05 | 0.24 | 0.14 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Polonium 210 ^h | 0.8 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Polonium 212 ⁱ | 0.55 | | | pCi/g | 15-Jun-05 | 0.44 | 0.47 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Polonium 214 ^j | 0.92 | | | pCi/g | 15-Jun-05 | 0.23 | 0.18 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Polonium 215 ^k | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Polonium 216 ^l | 1.54 | | | pCi/g | 15-Jun-05 | 0.23 | 0.12 |
| HDWM71C7 | Soil | BRC-BKG-07B-0-0.5 | Polonium 218 ^m | 0.968 J | J | k | pCi/g | 15-Jun-05 | 0.15 | 0.186 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Potassium 40 | 27.9 | | | pCi/g | 15-Jun-05 | 4 | 1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Protactinium 234 | -0.04 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.25 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Radium 223 ⁿ | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Radium 224 ^o | 1.54 | | | pCi/g | 15-Jun-05 | 0.23 | 0.12 |
| HDWM71C7 | Soil | BRC-BKG-07B-0-0.5 | Radium 226 | 0.968 J | J | k | pCi/g | 15-Jun-05 | 0.15 | 0.186 |
| HDWM71C8 | Soil | BRC-BKG-07B-0-0.5 | Radium 228 | 1.67 J | J | k | pCi/g | 15-Jun-05 | 0.2 | 0.415 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thallium 207 ^p | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thallium 208 | 0.58 | | | pCi/g | 15-Jun-05 | 0.14 | 0.08 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 227 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.43 | 0.76 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 228 | 1.82 | | | pCi/g | 15-Jun-05 | 0.32 | 0.12 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 230 | 1.15 | | | pCi/g | 15-Jun-05 | 0.24 | 0.06 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 231 | 0.068 U | | | pCi/g | 15-Jun-05 | 0.075 | 0.091 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 232 | 1.45 | | | pCi/g | 15-Jun-05 | 0.27 | 0.04 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thorium 234 | 1.43 | | | pCi/g | 15-Jun-05 | 0.74 | 1 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Uranium 233/234 | 0.96 J | | | pCi/g | 15-Jun-05 | 0.23 | 0.1 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Uranium 235 | 0.068 U | | | pCi/g | 15-Jun-05 | 0.075 | 0.091 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Uranium 238 | 0.89 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.09 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Moisture (%) | 0.94 | | | percent | 15-Jun-05 | | |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Aluminum | 12200 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Antimony | 0.27 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Arsenic | 5.2 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Barium | 230 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Beryllium | 0.74 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Boron | 5.8 | J+ | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Calcium | 16600 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Chromium | 14.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Cobalt | 9.4 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Copper | 16.6 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Iron | 16900 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lead | 10.9 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Lithium | 18.6 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Magnesium | 11400 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Manganese | 498 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Mercury | 0.02 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Molybdenum | 0.53 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Nickel | 16.4 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Palladium | 0.25 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Phosphorus | 1340 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Potassium | 2760 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Selenium | 0.6 | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Silicon | 1240 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Sodium | 134 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Strontium | 105 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Thallium | 1.1 | | | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Tin | 0.54 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Titanium | 550 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Tungsten | 0.49 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Uranium | 0.76 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Vanadium | 36.1 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Zinc | 52.1 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373020 | Soil | BRC-BKG-07B-0-0.5 | Zirconium | 112 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Chloride | 2.5 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Fluoride | 0.79 B | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Nitrate | 0.14 B | | | mg/kg | 16-Jun-05 | | 0.1 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Nitrite | U | | | mg/kg | 16-Jun-05 | | 0.061 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Sulfate | 9 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | CEC | 7.4 | | | meq/100g | 16-Jun-05 | | |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | pH (solid) | 8.8 | | | none | 16-Jun-05 | | |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Actinium 227 ^d | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Actinium 228 | 1.76 | | | pCi/g | 16-Jun-05 | 0.59 | 0.32 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Bismuth 211 ^f | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|-------|
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Bismuth 212 | 0.82 | | | pCi/g | 16-Jun-05 | 0.45 | 0.72 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Bismuth 214 | 1.02 | | | pCi/g | 16-Jun-05 | 0.26 | 0.17 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Cobalt 57 | -0.014 U | | | pCi/g | 16-Jun-05 | 0.032 | 0.054 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Cobalt 60 | -0.009 U | | | pCi/g | 16-Jun-05 | 0.061 | 0.11 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lead 210 | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lead 211 ^g | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lead 212 | 1.52 | | | pCi/g | 16-Jun-05 | 0.25 | 0.16 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lead 214 | 0.8 | | | pCi/g | 16-Jun-05 | 0.23 | 0.18 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Polonium 210 ^h | 0.6 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Polonium 212 ⁱ | 0.52 | | | pCi/g | 16-Jun-05 | 0.29 | 0.46 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Polonium 214 ^j | 1.02 | | | pCi/g | 16-Jun-05 | 0.25 | 0.17 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Polonium 215 ^k | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Polonium 216 ^l | 1.52 | | | pCi/g | 16-Jun-05 | 0.25 | 0.16 |
| HDWNE1FJ | Soil | BRC-BKG-07B-4-6 | Polonium 218 ^m | 0.773 J | J | k | pCi/g | 16-Jun-05 | 0.12 | 0.128 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Potassium 40 | 28.2 | | | pCi/g | 16-Jun-05 | 4.1 | 0.8 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Protactinium 234 | 0.06 U | | | pCi/g | 16-Jun-05 | 0.17 | 0.26 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Radium 223 ⁿ | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Radium 224 ^o | 1.52 | | | pCi/g | 16-Jun-05 | 0.25 | 0.16 |
| HDWNE1FJ | Soil | BRC-BKG-07B-4-6 | Radium 226 | 0.773 J | J | k | pCi/g | 16-Jun-05 | 0.12 | 0.128 |
| HDWNE1FK | Soil | BRC-BKG-07B-4-6 | Radium 228 | 1.49 J | J | k | pCi/g | 16-Jun-05 | 0.2 | 0.492 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thallium 207 ^p | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thallium 208 | 0.57 | | | pCi/g | 16-Jun-05 | 0.14 | 0.09 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 227 | -0.05 U | | | pCi/g | 16-Jun-05 | 0.38 | 0.68 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 228 | 1.61 | | | pCi/g | 16-Jun-05 | 0.33 | 0.11 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 230 | 1.49 | | | pCi/g | 16-Jun-05 | 0.31 | 0.06 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 231 | 0.047 U | | | pCi/g | 16-Jun-05 | 0.069 | 0.095 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 232 | 1.31 | | | pCi/g | 16-Jun-05 | 0.29 | 0.07 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thorium 234 | 1.35 | | | pCi/g | 16-Jun-05 | 0.72 | 1.2 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Uranium 233/234 | 1.15 | | | pCi/g | 16-Jun-05 | 0.27 | 0.12 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Uranium 235 | 0.047 U | | | pCi/g | 16-Jun-05 | 0.069 | 0.095 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Uranium 238 | 1.16 | | | pCi/g | 16-Jun-05 | 0.27 | 0.09 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Moisture (%) | 2.6 | | | percent | 16-Jun-05 | | |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Aluminum | 8400 NE | J | j | mg/kg | 16-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Arsenic | 6.1 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Barium | 311 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Beryllium | 0.71 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Boron | 4.6 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Calcium | 30000 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Chromium | 10.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Cobalt | 8.6 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Copper | 15 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Iron | 16500 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lead | 10.9 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Lithium | 15.3 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Magnesium | 8240 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Manganese | 683 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Molybdenum | 0.51 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Nickel | 13 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Niobium | 2 BN | UJ- | b, e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Palladium | 0.32 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Phosphorus | 1500 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Potassium | 1390 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Silicon | 949 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Sodium | 179 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Strontium | 156 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Thallium | 0.74 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Tin | 0.42 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Titanium | 393 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Tungsten | 2 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Uranium | 0.91 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Vanadium | 41.1 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Zinc | 51.3 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F170373021 | Soil | BRC-BKG-07B-4-6 | Zirconium | 132 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Chloride | 263 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Fluoride | 0.46 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Nitrate | 0.99 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Sulfate | 14.1 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | CEC | 18.6 | | | meq/100g | 15-Jun-05 | | |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | pH (solid) | 8.4 | | | none | 15-Jun-05 | | |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Actinium 227 ^d | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Actinium 228 | 1.24 | | | pCi/g | 15-Jun-05 | 0.6 | 0.36 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Bismuth 210 ^e | 1.1 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Bismuth 211 ^f | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Bismuth 212 | 0.58 U | | | pCi/g | 15-Jun-05 | 0.59 | 0.66 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Bismuth 214 | 0.96 | | | pCi/g | 15-Jun-05 | 0.22 | 0.15 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Cobalt 57 | 0.005 U | | | pCi/g | 15-Jun-05 | 0.026 | 0.045 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Cobalt 60 | -0.042 U | | | pCi/g | 15-Jun-05 | 0.05 | 0.08 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lead 210 | 1.1 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lead 211 ^g | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lead 212 | 1.36 | | | pCi/g | 15-Jun-05 | 0.2 | 0.11 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lead 214 | 1.16 | | | pCi/g | 15-Jun-05 | 0.23 | 0.14 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Polonium 210 ^h | 1.1 U | | | pCi/g | 15-Jun-05 | 1.1 | 2 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Polonium 212 ⁱ | 0.37 U | | | pCi/g | 15-Jun-05 | 0.38 | 0.42 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Polonium 214 ^j | 0.96 | | | pCi/g | 15-Jun-05 | 0.22 | 0.15 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Polonium 215 ^k | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Polonium 216 ^l | 1.36 | | | pCi/g | 15-Jun-05 | 0.2 | 0.11 |
| HDWNH1C4 | Soil | BRC-BKG-07B-9-11 | Polonium 218 ^m | 1.7 | | | pCi/g | 15-Jun-05 | 0.22 | 0.137 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Potassium 40 | 21.8 | | | pCi/g | 15-Jun-05 | 3.4 | 0.8 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Protactinium 234 | -0.07 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.24 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Radium 223 ⁿ | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Radium 224 ^o | 1.36 | | | pCi/g | 15-Jun-05 | 0.2 | 0.11 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| HDWNH1C4 | Soil | BRC-BKG-07B-9-11 | Radium 226 | 1.7 | | | pCi/g | 15-Jun-05 | 0.22 | 0.137 |
| HDWNH1C5 | Soil | BRC-BKG-07B-9-11 | Radium 228 | 1.42 J | J | k | pCi/g | 15-Jun-05 | 0.2 | 0.492 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thallium 207 ^P | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thallium 208 | 0.41 | | | pCi/g | 15-Jun-05 | 0.11 | 0.09 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 227 | -0.24 U | | | pCi/g | 15-Jun-05 | 0.4 | 0.67 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 228 | 1.42 | | | pCi/g | 15-Jun-05 | 0.32 | 0.24 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 230 | 1.67 | | | pCi/g | 15-Jun-05 | 0.31 | 0.09 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 231 | 0.058 U | | | pCi/g | 15-Jun-05 | 0.084 | 0.12 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 232 | 1.34 | | | pCi/g | 15-Jun-05 | 0.27 | 0.08 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thorium 234 | 2.29 | | | pCi/g | 15-Jun-05 | 0.81 | 0.99 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Uranium 233/234 | 1.9 | | | pCi/g | 15-Jun-05 | 0.4 | 0.09 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Uranium 235 | 0.058 U | | | pCi/g | 15-Jun-05 | 0.084 | 0.12 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Uranium 238 | 2.01 | | | pCi/g | 15-Jun-05 | 0.41 | 0.09 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Moisture (%) | 3.8 | | | percent | 15-Jun-05 | | |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Aluminum | 9880 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Arsenic | 3.3 E | J | j | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Barium | 340 N | | | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Beryllium | 0.48 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Boron | 4.4 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Cadmium | U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Calcium | 22800 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Chromium | 8.1 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Cobalt | 10.2 | | | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Copper | 15.2 | | | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Iron | 13500 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lead | 6.8 E | J | j | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Lithium | 15.8 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Magnesium | 10900 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Manganese | 462 N | | | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Mercury | 0.015 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Molybdenum | 0.39 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Nickel | 15.5 | | | mg/kg | 15-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Palladium | 0.86 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Phosphorus | 1370 N | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Platinum | 0.064 B | J | g | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Potassium | 769 | | | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Silicon | 538 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Silver | U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Sodium | 669 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Strontium | 496 | | | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Thallium | 0.76 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Tin | 0.36 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Titanium | 312 | | | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Uranium | 0.93 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Vanadium | 45.1 NE | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Zinc | 38.9 | | | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373022 | Soil | BRC-BKG-07B-9-11 | Zirconium | 103 NE | J- | j, e | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Chloride | 17.6 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Fluoride | 0.52 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Nitrate | 0.47 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Sulfate | 115 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | CEC | 8.3 | | | meq/100g | 16-Jun-05 | | |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | pH (solid) | 9 | J | h | none | 16-Jun-05 | | |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Actinium 227 ^d | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Actinium 228 | 1.55 | | | pCi/g | 16-Jun-05 | 0.61 | 0.41 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Bismuth 210 ^e | 1.5 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Bismuth 211 ^f | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Bismuth 212 | 0.9 U | | | pCi/g | 16-Jun-05 | 0.53 | 1 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Bismuth 214 | 0.92 | | | pCi/g | 16-Jun-05 | 0.23 | 0.37 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Cobalt 57 | 0.013 U | | | pCi/g | 16-Jun-05 | 0.031 | 0.054 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Cobalt 60 | 0.034 U | | | pCi/g | 16-Jun-05 | 0.074 | 0.14 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lead 210 | 1.5 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lead 211 ^g | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lead 212 | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.12 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lead 214 | 0.93 | | | pCi/g | 16-Jun-05 | 0.21 | 0.15 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Polonium 210 ^h | 1.5 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.3 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Polonium 212 ⁱ | 0.58 U | | | pCi/g | 16-Jun-05 | 0.34 | 0.67 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Polonium 214 ^j | 0.92 | | | pCi/g | 16-Jun-05 | 0.23 | 0.16 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Polonium 215 ^k | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Polonium 216 ^l | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.12 |
| HDXHF1C5 | Soil | BRC-BKG-07C-0-0.5 | Polonium 218 ^m | 1.22 | J | n | pCi/g | 16-Jun-05 | 0.17 | 0.156 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Potassium 40 | 27.7 | | | pCi/g | 16-Jun-05 | 4 | 1 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Protactinium 234 | -0.16 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.26 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Radium 223 ⁿ | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Radium 224 ^o | 1.74 | | | pCi/g | 16-Jun-05 | 0.26 | 0.12 |
| HDXHF1C5 | Soil | BRC-BKG-07C-0-0.5 | Radium 226 | 1.22 | J | n | pCi/g | 16-Jun-05 | 0.17 | 0.156 |
| HDXHF1C6 | Soil | BRC-BKG-07C-0-0.5 | Radium 228 | 2.66 | | | pCi/g | 16-Jun-05 | 0.26 | 0.593 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thallium 207 ^p | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thallium 208 | 0.69 | | | pCi/g | 16-Jun-05 | 0.15 | 0.09 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 227 | -0.18 U | | | pCi/g | 16-Jun-05 | 0.42 | 0.72 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 228 | 1.88 | | | pCi/g | 16-Jun-05 | 0.38 | 0.18 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 230 | 1.24 | | | pCi/g | 16-Jun-05 | 0.29 | 0.11 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 231 | 0.066 U | | | pCi/g | 16-Jun-05 | 0.066 | 0.07 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 232 | 1.97 | | | pCi/g | 16-Jun-05 | 0.37 | 0.09 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thorium 234 | 1.31 | | | pCi/g | 16-Jun-05 | 0.48 | 1 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Uranium 233/234 | 1.02 | U | b | pCi/g | 16-Jun-05 | 0.24 | 0.03 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Uranium 235 | 0.066 U | | | pCi/g | 16-Jun-05 | 0.066 | 0.07 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Uranium 238 | 1.17 | | | pCi/g | 16-Jun-05 | 0.26 | 0.03 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Moisture (%) | 1 | | | percent | 16-Jun-05 | | |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Aluminum | 11200 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Antimony | 0.36 BN | J- | e, g | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Arsenic | 6.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Barium | 215 N | | | mg/kg | 16-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Beryllium | 0.82 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Boron | 7.8 | J+ | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Calcium | 26500 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Chromium | 16.7 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Cobalt | 8.4 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Copper | 17.2 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Iron | 17400 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lead | 12.2 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Lithium | 22.2 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Magnesium | 11600 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Manganese | 469 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Mercury | 0.014 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Molybdenum | 0.79 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Nickel | 17.1 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Palladium | 0.24 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Phosphorus | 1280 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Potassium | 2720 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Selenium | 0.31 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Silicon | 1030 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Sodium | 693 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Strontium | 129 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Thallium | 0.74 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Tin | 0.54 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Titanium | 467 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Tungsten | 1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Uranium | 0.85 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Vanadium | 36.7 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Zinc | 55.2 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132009 | Soil | BRC-BKG-07C-0-0.5 | Zirconium | 120 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Chloride | 772 J | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Fluoride | 0.77 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Nitrate | 4.7 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Sulfate | 164 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | CEC | 17 | | | meq/100g | 16-Jun-05 | | |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | pH (solid) | 8 | J | h | none | 16-Jun-05 | | |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Actinium 227 ^d | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Actinium 228 | 1.68 | | | pCi/g | 16-Jun-05 | 0.62 | 0.36 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Bismuth 211 ^f | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Bismuth 212 | 0.9 U | | | pCi/g | 16-Jun-05 | 0.52 | 1.1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Bismuth 214 | 1.48 | | | pCi/g | 16-Jun-05 | 0.29 | 0.19 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Cobalt 57 | -0.004 U | | | pCi/g | 16-Jun-05 | 0.034 | 0.06 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Cobalt 60 | -0.003 U | | | pCi/g | 16-Jun-05 | 0.062 | 0.12 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lead 210 | 0.2 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lead 211 ^g | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lead 212 | 1.3 | | | pCi/g | 16-Jun-05 | 0.21 | 0.15 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lead 214 | 1.72 | | | pCi/g | 16-Jun-05 | 0.3 | 0.17 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Polonium 210 ^h | 0.2 U | | | pCi/g | 16-Jun-05 | 1.2 | 2.2 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Polonium 212 ⁱ | 0.58 U | | | pCi/g | 16-Jun-05 | 0.34 | 0.69 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Polonium 214 ^j | 1.48 | | | pCi/g | 16-Jun-05 | 0.28 | 0.19 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Polonium 215 ^k | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Polonium 216 ^l | 1.3 | | | pCi/g | 16-Jun-05 | 0.21 | 0.15 |
| HDXHH1C4 | Soil | BRC-BKG-07C-4-6 | Polonium 218 ^m | 1.82 | J | n | pCi/g | 16-Jun-05 | 0.22 | 0.145 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Potassium 40 | 24.1 | | | pCi/g | 16-Jun-05 | 3.7 | 1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Protactinium 234 | -0.11 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.27 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Radium 223 ⁿ | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Radium 224 ^o | 1.3 | | | pCi/g | 16-Jun-05 | 0.21 | 0.15 |
| HDXHH1C4 | Soil | BRC-BKG-07C-4-6 | Radium 226 | 1.82 | J | n | pCi/g | 16-Jun-05 | 0.22 | 0.145 |
| HDXHH1C5 | Soil | BRC-BKG-07C-4-6 | Radium 228 | 2.21 | | | pCi/g | 16-Jun-05 | 0.24 | 0.606 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thallium 207 ^p | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thallium 208 | 0.48 | | | pCi/g | 16-Jun-05 | 0.12 | 0.1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 227 | -0.11 U | | | pCi/g | 16-Jun-05 | 0.47 | 0.8 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 228 | 1.5 | | | pCi/g | 16-Jun-05 | 0.37 | 0.21 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 230 | 2.44 | | | pCi/g | 16-Jun-05 | 0.46 | 0.08 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 231 | 0.089 J | U | b | pCi/g | 16-Jun-05 | 0.073 | 0.066 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 232 | 1.26 | | | pCi/g | 16-Jun-05 | 0.31 | 0.1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thorium 234 | 1.73 | | | pCi/g | 16-Jun-05 | 0.58 | 1 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Uranium 233/234 | 1.99 | | | pCi/g | 16-Jun-05 | 0.34 | 0.05 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Uranium 235 | 0.089 J | J | k | pCi/g | 16-Jun-05 | 0.073 | 0.066 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Uranium 238 | 1.95 | | | pCi/g | 16-Jun-05 | 0.34 | 0.06 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Moisture (%) | 3.7 | | | percent | 16-Jun-05 | | |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Aluminum | 7890 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Arsenic | 5.6 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Barium | 277 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Beryllium | 0.59 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Boron | 4.8 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Calcium | 71900 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Chromium | 9.8 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Cobalt | 7.1 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Copper | 13.6 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Iron | 13100 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lead | 7.3 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Lithium | 18.8 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Magnesium | 10600 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Manganese | 366 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Mercury | 0.013 B | J | g | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Molybdenum | 0.42 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Nickel | 12.1 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Palladium | 0.5 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Phosphorus | 1300 N | | | mg/kg | 16-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Potassium | 1080 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Selenium | 0.31 B | J | g | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Silicon | 1360 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Sodium | 720 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Strontium | 253 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Thallium | U | | | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Tin | 0.43 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Titanium | 366 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Tungsten | 0.99 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Uranium | 1.1 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Vanadium | 33.8 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Zinc | 39.1 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132010 | Soil | BRC-BKG-07C-4-6 | Zirconium | 113 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Chloride | 141 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Fluoride | 0.75 B | U | b | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Nitrate | 1.5 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Sulfate | 27.3 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | CEC | 18.9 | | | meq/100g | 16-Jun-05 | | |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | pH (solid) | 8.7 | J | h | none | 16-Jun-05 | | |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Actinium 227 ^d | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Actinium 228 | 1.39 | | | pCi/g | 16-Jun-05 | 0.54 | 0.39 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Bismuth 211 ^f | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Bismuth 212 | 1.28 | | | pCi/g | 16-Jun-05 | 0.47 | 1 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Bismuth 214 | 1.14 | | | pCi/g | 16-Jun-05 | 0.25 | 0.42 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Cobalt 57 | -0.002 U | | | pCi/g | 16-Jun-05 | 0.028 | 0.048 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Cobalt 60 | 0.044 U | | | pCi/g | 16-Jun-05 | 0.046 | 0.1 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lead 210 | 0.8 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lead 211 ^g | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lead 212 | 1.4 | | | pCi/g | 16-Jun-05 | 0.22 | 0.13 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lead 214 | 1.24 | | | pCi/g | 16-Jun-05 | 0.26 | 0.16 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Polonium 210 ^h | 0.8 U | | | pCi/g | 16-Jun-05 | 1 | 1.9 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Polonium 212 ⁱ | 0.82 | | | pCi/g | 16-Jun-05 | 0.3 | 0.65 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Polonium 214 ^j | 1.14 | | | pCi/g | 16-Jun-05 | 0.25 | 0.16 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Polonium 215 ^k | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Polonium 216 ^l | 1.4 | | | pCi/g | 16-Jun-05 | 0.22 | 0.13 |
| HDXHJ1C4 | Soil | BRC-BKG-07C-9-11 | Polonium 218 ^m | 1.91 | J | n | pCi/g | 16-Jun-05 | 0.23 | 0.0924 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Potassium 40 | 21.8 | | | pCi/g | 16-Jun-05 | 3.2 | 5.1 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Protactinium 234 | 0.12 U | | | pCi/g | 16-Jun-05 | 0.16 | 0.25 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Radium 223 ⁿ | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Radium 224 ^o | 1.4 | | | pCi/g | 16-Jun-05 | 0.22 | 0.13 |
| HDXHJ1C4 | Soil | BRC-BKG-07C-9-11 | Radium 226 | 1.91 | J | n | pCi/g | 16-Jun-05 | 0.23 | 0.0924 |
| HDXHJ1C5 | Soil | BRC-BKG-07C-9-11 | Radium 228 | 1.34 J | J | k | pCi/g | 16-Jun-05 | 0.2 | 0.62 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thallium 207 ^p | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thallium 208 | 0.53 | | | pCi/g | 16-Jun-05 | 0.12 | 0.08 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 227 | -0.12 U | | | pCi/g | 16-Jun-05 | 0.4 | 0.69 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 228 | 1.22 | | | pCi/g | 16-Jun-05 | 0.33 | 0.19 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 230 | 2.15 | | | pCi/g | 16-Jun-05 | 0.43 | 0.11 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 231 | 0.21 J | J+ | b | pCi/g | 16-Jun-05 | 0.11 | 0.03 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 232 | 1.23 | | | pCi/g | 16-Jun-05 | 0.31 | 0.08 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thorium 234 | 1.85 | | | pCi/g | 16-Jun-05 | 0.7 | 1.2 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Uranium 233/234 | 2.06 | | | pCi/g | 16-Jun-05 | 0.34 | 0.04 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Uranium 235 | 0.21 J | J | k | pCi/g | 16-Jun-05 | 0.11 | 0.03 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Uranium 238 | 2.37 | | | pCi/g | 16-Jun-05 | 0.37 | 0.03 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Moisture (%) | 3.2 | | | percent | 16-Jun-05 | | |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Aluminum | 10300 NE | J | j | mg/kg | 16-Jun-05 | | 2 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Antimony | N U | UJ- | e | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Arsenic | 5.4 E | J | j | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Barium | 309 N | | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Beryllium | 0.58 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Boron | 3.9 B | U | b | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Cadmium | U | | | mg/kg | 16-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Calcium | 44600 NE | J | j | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Chromium | 9 | | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Cobalt | 10.2 | | | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Copper | 17 | | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Iron | 14900 N | | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lead | 6.3 E | J | j | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Lithium | 26.2 | | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Magnesium | 13500 E | J | j | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Manganese | 529 N | | | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Mercury | U | | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Molybdenum | 0.47 B | J | g | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Nickel | 14.1 | | | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Niobium | N U | UJ- | e | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Palladium | 0.91 | | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Phosphorus | 1320 N | | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Platinum | U | | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Potassium | 649 | | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Selenium | U | | | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Silicon | 854 N | | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Silver | U | | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Sodium | 662 | | | mg/kg | 16-Jun-05 | | 7.567 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Strontium | 510 | | | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Thallium | U | | | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Tin | 0.39 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Titanium | 386 | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Uranium | 1.2 | | | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Vanadium | 51.8 NE | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Zinc | 40.3 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132011 | Soil | BRC-BKG-07C-9-11 | Zirconium | 107 NE | J- | j, e | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Chloride | 7 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Nitrate | 1.5 | | | mg/kg | 15-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Sulfate | 4.5 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | CEC | 13 | | | meq/100g | 15-Jun-05 | | |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | pH (solid) | 9 | | | none | 15-Jun-05 | | |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Actinium 227 ^d | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Actinium 228 | 2.05 | | | pCi/g | 15-Jun-05 | 0.73 | 0.31 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Bismuth 211 ^f | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Bismuth 212 | 1.04 | | | pCi/g | 15-Jun-05 | 0.74 | 0.79 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Bismuth 214 | 0.96 | | | pCi/g | 15-Jun-05 | 0.24 | 0.44 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Cobalt 57 | 0.022 U | | | pCi/g | 15-Jun-05 | 0.034 | 0.062 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Cobalt 60 | 0.008 U | | | pCi/g | 15-Jun-05 | 0.06 | 0.12 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lead 211 ^g | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lead 212 | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.18 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lead 214 | 0.93 | | | pCi/g | 15-Jun-05 | 0.24 | 0.19 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 15-Jun-05 | 1.3 | 2.3 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Polonium 212 ⁱ | 0.67 | | | pCi/g | 15-Jun-05 | 0.47 | 0.51 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Polonium 214 ^j | 0.96 | | | pCi/g | 15-Jun-05 | 0.24 | 0.17 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Polonium 215 ^k | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Polonium 216 ^l | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.18 |
| HDWMK1C4 | Soil | BRC-BKG-08A-0-0.5 | Polonium 218 ^m | 0.89 J | J | k | pCi/g | 15-Jun-05 | 0.11 | 0.0838 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Potassium 40 | 27 | | | pCi/g | 15-Jun-05 | 4 | 0.7 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Protactinium 234 | -0.34 U | | | pCi/g | 15-Jun-05 | 0.18 | 0.26 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Radium 223 ⁿ | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Radium 224 ^o | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.18 |
| HDWMK1C4 | Soil | BRC-BKG-08A-0-0.5 | Radium 226 | 0.89 J | J | k | pCi/g | 15-Jun-05 | 0.11 | 0.0838 |
| HDWMK1C5 | Soil | BRC-BKG-08A-0-0.5 | Radium 228 | 2.1 | | | pCi/g | 15-Jun-05 | 0.24 | 0.522 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thallium 207 ^p | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thallium 208 | 0.61 | | | pCi/g | 15-Jun-05 | 0.15 | 0.1 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 227 | 0.13 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.8 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 228 | 1.85 | | | pCi/g | 15-Jun-05 | 0.33 | 0.03 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 230 | 1.16 | | | pCi/g | 15-Jun-05 | 0.25 | 0.05 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 231 | 0.054 J | | | pCi/g | 15-Jun-05 | 0.053 | 0.029 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 232 | 1.82 | | | pCi/g | 15-Jun-05 | 0.32 | 0.05 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thorium 234 | 1.43 | | | pCi/g | 15-Jun-05 | 0.77 | 1.3 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Uranium 233/234 | 0.85 J | | | pCi/g | 15-Jun-05 | 0.2 | 0.05 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Uranium 235 | 0.054 J | | | pCi/g | 15-Jun-05 | 0.053 | 0.029 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Uranium 238 | 0.86 J | | | pCi/g | 15-Jun-05 | 0.2 | 0.05 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Moisture (%) | 0.88 | | | percent | 15-Jun-05 | | |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Aluminum | 8080 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Antimony | 0.18 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Arsenic | 3.6 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Barium | 119 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Beryllium | 0.66 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Calcium | 15800 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Chromium | 12 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Cobalt | 10.4 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Copper | 21 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Iron | 15200 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lead | 9.3 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Lithium | 11.8 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Magnesium | 10200 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Manganese | 414 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Mercury | 0.022 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Molybdenum | 0.48 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Nickel | 20.6 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Palladium | 0.26 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Phosphorus | 1830 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Potassium | 1890 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Selenium | 0.32 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Silicon | 634 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Sodium | 214 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Strontium | 126 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Thallium | 0.54 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Tin | 0.63 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Titanium | 683 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Tungsten | 0.62 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Uranium | 1 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Vanadium | 46.8 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Zinc | 41.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373011 | Soil | BRC-BKG-08A-0-0.5 | Zirconium | 141 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Chloride | 1.3 B | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Fluoride | 0.36 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Nitrate | 0.21 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Sulfate | 5 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | CEC | 12.4 | | | meq/100g | 15-Jun-05 | | |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | pH (solid) | 9.3 | | | none | 15-Jun-05 | | |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Actinium 227 ^d | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Actinium 228 | 2.56 | | | pCi/g | 15-Jun-05 | 0.77 | 0.34 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Bismuth 211 ^f | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Bismuth 212 | 0.99 | | | pCi/g | 15-Jun-05 | 0.61 | 0.68 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Bismuth 214 | 0.94 | | | pCi/g | 15-Jun-05 | 0.22 | 0.17 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Cobalt 57 | -0.029 U | | | pCi/g | 15-Jun-05 | 0.03 | 0.048 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Cobalt 60 | 0.013 U | | | pCi/g | 15-Jun-05 | 0.056 | 0.11 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lead 210 | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lead 211 ^g | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lead 212 | 1.45 | | | pCi/g | 15-Jun-05 | 0.25 | 0.2 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lead 214 | 0.95 | | | pCi/g | 15-Jun-05 | 0.22 | 0.15 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Polonium 210 ^h | 0.2 U | | | pCi/g | 15-Jun-05 | 1.1 | 1.9 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Polonium 212 ⁱ | 0.64 | | | pCi/g | 15-Jun-05 | 0.39 | 0.43 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Polonium 214 ^j | 0.94 | | | pCi/g | 15-Jun-05 | 0.22 | 0.17 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Polonium 215 ^k | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Polonium 216 ^l | 1.45 | | | pCi/g | 15-Jun-05 | 0.25 | 0.2 |
| HDWML1C4 | Soil | BRC-BKG-08A-4-6 | Polonium 218 ^m | 1.2 | | | pCi/g | 15-Jun-05 | 0.15 | 0.106 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Potassium 40 | 24.5 | | | pCi/g | 15-Jun-05 | 3.5 | 0.9 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Protactinium 234 | 0.06 U | | | pCi/g | 15-Jun-05 | 0.16 | 0.25 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Radium 223 ⁿ | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Radium 224 ^o | 1.45 | | | pCi/g | 15-Jun-05 | 0.25 | 0.2 |
| HDWML1C4 | Soil | BRC-BKG-08A-4-6 | Radium 226 | 1.2 | | | pCi/g | 15-Jun-05 | 0.15 | 0.106 |
| HDWML1C5 | Soil | BRC-BKG-08A-4-6 | Radium 228 | 2.05 | | | pCi/g | 15-Jun-05 | 0.24 | 0.532 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thallium 207 ^p | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thallium 208 | 0.6 | | | pCi/g | 15-Jun-05 | 0.16 | 0.08 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 227 | -0.24 U | | | pCi/g | 15-Jun-05 | 0.44 | 0.74 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 228 | 1.97 | | | pCi/g | 15-Jun-05 | 0.43 | 0.31 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 230 | 1.21 | | | pCi/g | 15-Jun-05 | 0.28 | 0.11 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 231 | 0.047 J | | | pCi/g | 15-Jun-05 | 0.053 | 0.032 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 232 | 2.01 | | | pCi/g | 15-Jun-05 | 0.37 | 0.07 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thorium 234 | 1.62 | | | pCi/g | 15-Jun-05 | 0.7 | 1.1 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Uranium 233/234 | 0.94 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.05 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Uranium 235 | 0.047 J | | | pCi/g | 15-Jun-05 | 0.053 | 0.032 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Uranium 238 | 1.17 | | | pCi/g | 15-Jun-05 | 0.25 | 0.03 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Moisture (%) | 3.2 | | | percent | 15-Jun-05 | | |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Aluminum | 6800 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Arsenic | 3.7 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Barium | 140 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Beryllium | 0.6 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Calcium | 17100 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Chromium | 11.3 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Cobalt | 9.4 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Copper | 20.3 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Iron | 14000 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lead | 6.5 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Lithium | 10.6 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Magnesium | 8200 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Manganese | 430 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Mercury | 0.014 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Molybdenum | 0.58 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Nickel | 19.5 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Niobium | 2.1 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Palladium | 0.3 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Phosphorus | 1820 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Potassium | 1240 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Silicon | 703 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Sodium | 406 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Strontium | 135 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Thallium | 0.47 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Tin | 0.53 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Titanium | 673 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Uranium | 1 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Vanadium | 43.6 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Zinc | 36 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373012 | Soil | BRC-BKG-08A-4-6 | Zirconium | 148 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Chloride | 26.9 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Fluoride | 0.31 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Nitrate | 6 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Sulfate | 108 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | CEC | 13.1 | | | meq/100g | 15-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | pH (solid) | 8.7 | | | none | 15-Jun-05 | | |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Actinium 227 ^d | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Actinium 228 | 2.08 | | | pCi/g | 15-Jun-05 | 0.71 | 0.42 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Bismuth 211 ^f | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Bismuth 212 | 1.42 | | | pCi/g | 15-Jun-05 | 0.82 | 0.8 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Bismuth 214 | 0.81 | | | pCi/g | 15-Jun-05 | 0.22 | 0.39 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Cobalt 57 | -0.01 U | | | pCi/g | 15-Jun-05 | 0.035 | 0.06 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Cobalt 60 | 0.04 U | | | pCi/g | 15-Jun-05 | 0.062 | 0.13 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lead 210 | 0.4 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lead 211 ^g | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lead 212 | 1.97 | | | pCi/g | 15-Jun-05 | 0.29 | 0.14 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lead 214 | 0.98 | | | pCi/g | 15-Jun-05 | 0.23 | 0.2 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Polonium 210 ^h | 0.4 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Polonium 212 ⁱ | 0.91 | | | pCi/g | 15-Jun-05 | 0.53 | 0.51 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Polonium 214 ^j | 0.81 | | | pCi/g | 15-Jun-05 | 0.22 | 0.18 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Polonium 215 ^k | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Polonium 216 ^l | 1.97 | | | pCi/g | 15-Jun-05 | 0.29 | 0.14 |
| HDWMM1C5 | Soil | BRC-BKG-08A-9-11 | Polonium 218 ^m | 0.833 J | J | k | pCi/g | 15-Jun-05 | 0.11 | 0.125 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Potassium 40 | 23.1 | | | pCi/g | 15-Jun-05 | 3.5 | 0.8 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Protactinium 234 | -0.15 U | | | pCi/g | 15-Jun-05 | 0.18 | 0.29 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Radium 223 ⁿ | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Radium 224 ^o | 1.97 | | | pCi/g | 15-Jun-05 | 0.29 | 0.14 |
| HDWMM1C5 | Soil | BRC-BKG-08A-9-11 | Radium 226 | 0.833 J | J | k | pCi/g | 15-Jun-05 | 0.11 | 0.125 |
| HDWMM1C6 | Soil | BRC-BKG-08A-9-11 | Radium 228 | 2.57 | | | pCi/g | 15-Jun-05 | 0.26 | 0.459 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thallium 207 ^p | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thallium 208 | 0.64 | | | pCi/g | 15-Jun-05 | 0.14 | 0.09 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 227 | -0.17 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.83 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 228 | 1.86 | | | pCi/g | 15-Jun-05 | 0.37 | 0.17 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 230 | 1.22 | | | pCi/g | 15-Jun-05 | 0.28 | 0.08 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 231 | 0.047 U | | | pCi/g | 15-Jun-05 | 0.055 | 0.064 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 232 | 1.9 | | | pCi/g | 15-Jun-05 | 0.36 | 0.06 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thorium 234 | 1.71 | | | pCi/g | 15-Jun-05 | 0.55 | 1.1 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Uranium 233/234 | 1.24 | | | pCi/g | 15-Jun-05 | 0.27 | 0.03 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Uranium 235 | 0.047 U | | | pCi/g | 15-Jun-05 | 0.055 | 0.064 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Uranium 238 | 1.24 | | | pCi/g | 15-Jun-05 | 0.27 | 0.03 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Moisture (%) | 3.1 | | | percent | 15-Jun-05 | | |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Aluminum | 8440 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Arsenic | 4 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Barium | 154 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Beryllium | 0.62 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Boron | 4.5 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Calcium | 32300 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Chromium | 7.8 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Cobalt | 9.5 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Copper | 20.9 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Iron | 12500 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lead | 5.9 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Lithium | 13 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Magnesium | 11600 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Manganese | 382 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Mercury | 0.012 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Molybdenum | 0.56 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Nickel | 20.2 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Palladium | 0.5 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Phosphorus | 1640 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Potassium | 1350 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Silicon | 572 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Sodium | 615 | | | mg/kg | 15-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Strontium | 211 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Thallium | 0.43 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Tin | 0.58 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Titanium | 657 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Tungsten | 1.4 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Uranium | 1.3 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Vanadium | 40.5 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Zinc | 34.3 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373013 | Soil | BRC-BKG-08A-9-11 | Zirconium | 145 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Chloride | 1.6 B J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Nitrate | 0.28 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Nitrite | 0.075 B | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Sulfate | 2.2 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | CEC | 13.3 | | | meq/100g | 15-Jun-05 | | |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | pH (solid) | 9 | | | none | 15-Jun-05 | | |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Actinium 227 ^d | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Actinium 228 | 1.91 | | | pCi/g | 15-Jun-05 | 0.62 | 0.22 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Bismuth 210 ^e | 0.63 U | | | pCi/g | 15-Jun-05 | 0.97 | 1.8 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Bismuth 211 ^f | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Bismuth 212 | 0.6 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.69 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Bismuth 214 | 0.8 | | | pCi/g | 15-Jun-05 | 0.2 | 0.17 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Cobalt 57 | 0.014 U | | | pCi/g | 15-Jun-05 | 0.028 | 0.049 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Cobalt 60 | -0.001 U | | | pCi/g | 15-Jun-05 | 0.051 | 0.097 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lead 210 | 0.63 U | | | pCi/g | 15-Jun-05 | 0.97 | 1.8 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lead 211 ^g | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lead 212 | 1.38 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lead 214 | 0.91 | | | pCi/g | 15-Jun-05 | 0.22 | 0.14 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Polonium 210 ^h | 0.63 U | | | pCi/g | 15-Jun-05 | 0.97 | 1.8 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Polonium 212 ⁱ | 0.38 U | | | pCi/g | 15-Jun-05 | 0.29 | 0.44 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Polonium 214 ^j | 0.8 | | | pCi/g | 15-Jun-05 | 0.2 | 0.17 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Polonium 215 ^k | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Polonium 216 ^l | 1.38 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| HDWMR1C6 | Soil | BRC-BKG-08B-0-0.5 | Polonium 218 ^m | 0.96 J | J | k | pCi/g | 15-Jun-05 | 0.14 | 0.153 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Potassium 40 | 22.2 | | | pCi/g | 15-Jun-05 | 3.3 | 0.8 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Protactinium 234 | 0.07 U | | | pCi/g | 15-Jun-05 | 0.15 | 0.23 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Radium 223 ⁿ | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Radium 224 ^o | 1.38 | | | pCi/g | 15-Jun-05 | 0.23 | 0.15 |
| HDWMR1C6 | Soil | BRC-BKG-08B-0-0.5 | Radium 226 | 0.96 J | J | k | pCi/g | 15-Jun-05 | 0.14 | 0.153 |
| HDWMR1C7 | Soil | BRC-BKG-08B-0-0.5 | Radium 228 | 1.95 J | J | k | pCi/g | 15-Jun-05 | 0.24 | 0.705 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thallium 207 ^p | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thallium 208 | 0.5 | | | pCi/g | 15-Jun-05 | 0.12 | 0.08 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 227 | -0.32 U | | | pCi/g | 15-Jun-05 | 0.35 | 0.58 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 228 | 1.8 | | | pCi/g | 15-Jun-05 | 0.36 | 0.17 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 230 | 0.95 J | | | pCi/g | 15-Jun-05 | 0.24 | 0.11 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 231 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.059 | 0.091 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 232 | 1.79 | | | pCi/g | 15-Jun-05 | 0.34 | 0.08 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thorium 234 | 0.58 U | | | pCi/g | 15-Jun-05 | 0.57 | 1 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Uranium 233/234 | 0.7 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.13 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Uranium 235 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.059 | 0.091 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Uranium 238 | 1.14 | | | pCi/g | 15-Jun-05 | 0.28 | 0.1 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Moisture (%) | 1.2 | | | percent | 15-Jun-05 | | |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Aluminum | 6360 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Arsenic | 3 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Barium | 117 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Beryllium | 0.54 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Calcium | 14600 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Chromium | 7.6 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Cobalt | 9 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Copper | 18.5 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Iron | 12100 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lead | 7.4 | | | mg/kg | 15-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Lithium | 8.7 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Magnesium | 8370 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Manganese | 438 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Mercury | 0.038 | | | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Molybdenum | 0.38 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Nickel | 15.8 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Palladium | 0.21 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Phosphorus | 1720 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Potassium | 1240 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Silicon | 541 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Sodium | 132 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Strontium | 97.7 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Thallium | 0.6 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Tin | 0.41 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Titanium | 509 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Tungsten | 0.78 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Uranium | 0.82 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Vanadium | 34.7 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Zinc | 32.5 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373014 | Soil | BRC-BKG-08B-0-0.5 | Zirconium | 132 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Chloride | 36 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Fluoride | 0.94 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Nitrate | 2.3 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Sulfate | 62.3 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | CEC | 23.6 | | | meq/100g | 15-Jun-05 | | |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | pH (solid) | 9.1 | | | none | 15-Jun-05 | | |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Actinium 227 ^d | 0.03 U | | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|-------|
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Actinium 228 | 1.47 | | pCi/g | 15-Jun-05 | 0.59 | 0.38 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Bismuth 210 ^e | 0.8 U | | pCi/g | 15-Jun-05 | 1.3 | 2.5 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Bismuth 211 ^f | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Bismuth 212 | 0.91 | | pCi/g | 15-Jun-05 | 0.71 | 0.84 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Bismuth 214 | 1.14 | | pCi/g | 15-Jun-05 | 0.27 | 0.48 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Cobalt 57 | 0.005 U | | pCi/g | 15-Jun-05 | 0.033 | 0.058 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Cobalt 60 | -0.017 U | | pCi/g | 15-Jun-05 | 0.063 | 0.11 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lead 210 | 0.8 U | | pCi/g | 15-Jun-05 | 1.3 | 2.5 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lead 211 ^g | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lead 212 | 1.53 | | pCi/g | 15-Jun-05 | 0.27 | 0.19 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lead 214 | 1.03 | | pCi/g | 15-Jun-05 | 0.23 | 0.18 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Polonium 210 ^h | 0.8 U | | pCi/g | 15-Jun-05 | 1.3 | 2.5 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Polonium 212 ⁱ | 0.58 | | pCi/g | 15-Jun-05 | 0.46 | 0.54 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Polonium 214 ^j | 1.14 | | pCi/g | 15-Jun-05 | 0.27 | 0.2 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Polonium 215 ^k | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Polonium 216 ^l | 1.53 | | pCi/g | 15-Jun-05 | 0.27 | 0.19 |
| HDWMV1C4 | Soil | BRC-BKG-08B-4-6 | Polonium 218 ^m | 1.46 | | pCi/g | 15-Jun-05 | 0.18 | 0.127 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Potassium 40 | 24.2 | | pCi/g | 15-Jun-05 | 3.6 | 0.7 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Protactinium 234 | -0.11 U | | pCi/g | 15-Jun-05 | 0.17 | 0.29 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Radium 223 ⁿ | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Radium 224 ^o | 1.53 | | pCi/g | 15-Jun-05 | 0.27 | 0.19 |
| HDWMV1C4 | Soil | BRC-BKG-08B-4-6 | Radium 226 | 1.46 | | pCi/g | 15-Jun-05 | 0.18 | 0.127 |
| HDWMV1C5 | Soil | BRC-BKG-08B-4-6 | Radium 228 | 2.23 | | pCi/g | 15-Jun-05 | 0.28 | 0.793 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thallium 207 ^p | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thallium 208 | 0.64 | | pCi/g | 15-Jun-05 | 0.14 | 0.09 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 227 | 0.03 U | | pCi/g | 15-Jun-05 | 0.48 | 0.85 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 228 | 1.79 | | pCi/g | 15-Jun-05 | 0.37 | 0.18 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 230 | 1.16 | | pCi/g | 15-Jun-05 | 0.28 | 0.07 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 231 | 0.043 U | | pCi/g | 15-Jun-05 | 0.062 | 0.086 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 232 | 1.57 | | pCi/g | 15-Jun-05 | 0.33 | 0.08 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thorium 234 | 1.6 | | pCi/g | 15-Jun-05 | 0.76 | 1.3 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Uranium 233/234 | 1.08 | | pCi/g | 15-Jun-05 | 0.26 | 0.08 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Uranium 235 | 0.043 U | | pCi/g | 15-Jun-05 | 0.062 | 0.086 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Uranium 238 | 1.03 | | | pCi/g | 15-Jun-05 | 0.25 | 0.07 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Moisture (%) | 5.9 | | | percent | 15-Jun-05 | | |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Aluminum | 8100 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Antimony | 0.32 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Arsenic | 3.8 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Barium | 254 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Beryllium | 0.77 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Calcium | 28700 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Chromium | 7.9 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Cobalt | 14.8 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Copper | 22.9 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Iron | 13000 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lead | 7.8 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Lithium | 11.8 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Magnesium | 10400 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Manganese | 863 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Mercury | 0.021 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Molybdenum | 1 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Nickel | 19.7 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Palladium | 0.34 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Phosphorus | 1780 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Potassium | 1350 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Silicon | 684 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Sodium | 536 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Strontium | 158 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Thallium | 0.51 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Tin | 0.53 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Titanium | 600 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Uranium | 1.2 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Vanadium | 41.6 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Zinc | 35.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373015 | Soil | BRC-BKG-08B-4-6 | Zirconium | 157 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Chloride | 144 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Fluoride | 0.5 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Nitrate | 2.9 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Sulfate | 641 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | CEC | 17.3 | | | meq/100g | 15-Jun-05 | | |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | pH (solid) | 8.5 | | | none | 15-Jun-05 | | |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Actinium 227 ^d | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Actinium 228 | 2.52 | | | pCi/g | 15-Jun-05 | 0.81 | 0.44 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Bismuth 211 ^f | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Bismuth 212 | 1.06 | | | pCi/g | 15-Jun-05 | 0.59 | 0.83 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Bismuth 214 | 0.98 | | | pCi/g | 15-Jun-05 | 0.27 | 0.38 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Cobalt 57 | -0.009 U | | | pCi/g | 15-Jun-05 | 0.031 | 0.051 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Cobalt 60 | 0.024 U | | | pCi/g | 15-Jun-05 | 0.06 | 0.12 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lead 210 | 0.7 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lead 211 ^g | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lead 212 | 1.89 | | | pCi/g | 15-Jun-05 | 0.27 | 0.15 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lead 214 | 1.07 | | | pCi/g | 15-Jun-05 | 0.25 | 0.16 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Polonium 212 ⁱ | 0.68 | | | pCi/g | 15-Jun-05 | 0.38 | 0.53 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Polonium 214 ^j | 0.98 | | | pCi/g | 15-Jun-05 | 0.26 | 0.18 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Polonium 215 ^k | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Polonium 216 ^l | 1.89 | | | pCi/g | 15-Jun-05 | 0.27 | 0.15 |
| HDWMW1DH | Soil | BRC-BKG-08B-9-11 | Polonium 218 ^m | 1.11 | | | pCi/g | 15-Jun-05 | 0.15 | 0.145 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Potassium 40 | 26.6 | | | pCi/g | 15-Jun-05 | 3.8 | 0.8 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Protactinium 234 | -0.1 U | | | pCi/g | 15-Jun-05 | 0.15 | 0.25 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Radium 223 ⁿ | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Radium 224 ^o | 1.89 | | | pCi/g | 15-Jun-05 | 0.27 | 0.15 |
| HDWMW1DH | Soil | BRC-BKG-08B-9-11 | Radium 226 | 1.11 | | | pCi/g | 15-Jun-05 | 0.15 | 0.145 |
| HDWMW1DJ | Soil | BRC-BKG-08B-9-11 | Radium 228 | 2.04 | | | pCi/g | 15-Jun-05 | 0.25 | 0.674 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thallium 207 ^p | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thallium 208 | 0.58 | | | pCi/g | 15-Jun-05 | 0.15 | 0.09 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 227 | -0.27 U | | | pCi/g | 15-Jun-05 | 0.45 | 0.75 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 228 | 1.91 | | | pCi/g | 15-Jun-05 | 0.42 | 0.19 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 230 | 1.23 | | | pCi/g | 15-Jun-05 | 0.31 | 0.1 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 231 | 0.077 U | | | pCi/g | 15-Jun-05 | 0.093 | 0.12 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 232 | 1.89 | | | pCi/g | 15-Jun-05 | 0.4 | 0.08 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thorium 234 | 2.01 | | | pCi/g | 15-Jun-05 | 0.7 | 1.2 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Uranium 233/234 | 1.48 | | | pCi/g | 15-Jun-05 | 0.37 | 0.17 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Uranium 235 | 0.077 U | | | pCi/g | 15-Jun-05 | 0.093 | 0.12 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Uranium 238 | 1.42 | | | pCi/g | 15-Jun-05 | 0.36 | 0.12 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Moisture (%) | 4.1 | | | percent | 15-Jun-05 | | |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Aluminum | 7270 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Arsenic | 4.2 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Barium | 203 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Beryllium | 0.64 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Boron | 3.9 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Calcium | 21500 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Chromium | 7.4 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Cobalt | 8.1 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Copper | 17.1 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Iron | 12300 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lead | 7.3 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Lithium | 14.1 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Magnesium | 9540 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Manganese | 605 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Mercury | 0.019 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Molybdenum | 0.54 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Nickel | 16 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Palladium | 0.35 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Phosphorus | 1880 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Potassium | 1140 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Silicon | 608 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Sodium | 630 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Strontium | 160 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Thallium | 0.4 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Tin | 0.45 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Titanium | 473 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Tungsten | 2.1 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Uranium | 0.95 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Vanadium | 33.4 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Zinc | 34.1 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373016 | Soil | BRC-BKG-08B-9-11 | Zirconium | 158 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Chloride | 1.2 B J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Fluoride | U | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Nitrate | 0.26 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Sulfate | 2.1 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | CEC | 14.8 | | | meq/100g | 15-Jun-05 | | |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | pH (solid) | 8.7 | | | none | 15-Jun-05 | | |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Actinium 227 ^d | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Actinium 228 | 1.8 | | | pCi/g | 15-Jun-05 | 0.68 | 0.4 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Bismuth 210 ^e | -0.002 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Bismuth 211 ^f | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|-------|
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Bismuth 212 | 0.92 U | | | pCi/g | 15-Jun-05 | 0.54 | 1.1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Bismuth 214 | 0.9 | | | pCi/g | 15-Jun-05 | 0.21 | 0.38 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Cobalt 57 | -0.024 U | | | pCi/g | 15-Jun-05 | 0.032 | 0.053 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Cobalt 60 | 0.008 U | | | pCi/g | 15-Jun-05 | 0.057 | 0.11 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lead 210 | -0.002 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lead 211 ^g | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lead 212 | 1.76 | | | pCi/g | 15-Jun-05 | 0.26 | 0.12 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lead 214 | 0.86 | | | pCi/g | 15-Jun-05 | 0.21 | 0.18 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Polonium 210 ^h | -0.002 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Polonium 212 ⁱ | 0.59 U | | | pCi/g | 15-Jun-05 | 0.34 | 0.7 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Polonium 214 ^j | 0.9 | | | pCi/g | 15-Jun-05 | 0.21 | 0.17 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Polonium 215 ^k | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Polonium 216 ^l | 1.76 | | | pCi/g | 15-Jun-05 | 0.26 | 0.12 |
| HDWMX1C4 | Soil | BRC-BKG-08C-0-0.5 | Polonium 218 ^m | 0.987 J | J | k | pCi/g | 15-Jun-05 | 0.14 | 0.141 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Potassium 40 | 24.4 | | | pCi/g | 15-Jun-05 | 3.7 | 1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Protactinium 234 | 0.03 U | | | pCi/g | 15-Jun-05 | 0.19 | 0.28 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Radium 223 ⁿ | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Radium 224 ^o | 1.76 | | | pCi/g | 15-Jun-05 | 0.26 | 0.12 |
| HDWMX1C4 | Soil | BRC-BKG-08C-0-0.5 | Radium 226 | 0.987 J | J | k | pCi/g | 15-Jun-05 | 0.14 | 0.141 |
| HDWMX1C5 | Soil | BRC-BKG-08C-0-0.5 | Radium 228 | 1.3 J | J | k | pCi/g | 15-Jun-05 | 0.2 | 0.627 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thallium 207 ^p | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thallium 208 | 0.62 | | | pCi/g | 15-Jun-05 | 0.14 | 0.09 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 227 | 0.14 U | | | pCi/g | 15-Jun-05 | 0.46 | 0.81 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 228 | 1.74 | | | pCi/g | 15-Jun-05 | 0.35 | 0.16 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 230 | 1.35 | | | pCi/g | 15-Jun-05 | 0.3 | 0.11 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 231 | 0.097 J | | | pCi/g | 15-Jun-05 | 0.077 | 0.075 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 232 | 1.52 | | | pCi/g | 15-Jun-05 | 0.31 | 0.05 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thorium 234 | 1.72 | | | pCi/g | 15-Jun-05 | 0.54 | 1 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Uranium 233/234 | 0.9 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.07 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Uranium 235 | 0.097 J | | | pCi/g | 15-Jun-05 | 0.077 | 0.075 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Uranium 238 | 0.93 J | | | pCi/g | 15-Jun-05 | 0.22 | 0.06 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Moisture (%) | 1.2 | | | percent | 15-Jun-05 | | |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Aluminum | 6820 NE | J | j | mg/kg | 15-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Arsenic | 3.4 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Barium | 127 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Beryllium | 0.62 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Calcium | 17600 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Chromium | 13.1 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Cobalt | 9.4 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Copper | 19 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Iron | 14600 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lead | 10.5 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Lithium | 10.2 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Magnesium | 8590 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Manganese | 434 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Mercury | 0.0098 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Molybdenum | 0.43 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Nickel | 18.1 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Palladium | 0.27 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Phosphorus | 1830 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Potassium | 1580 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Silicon | 721 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Sodium | 200 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Strontium | 119 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Thallium | 0.87 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Tin | 0.53 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Titanium | 618 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Tungsten | 0.71 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Uranium | 0.92 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Vanadium | 47 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Zinc | 35.7 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373017 | Soil | BRC-BKG-08C-0-0.5 | Zirconium | 132 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Chloride | 4.1 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Fluoride | 0.67 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Nitrate | 0.69 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Sulfate | 4.3 B | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | CEC | 14.7 | | | meq/100g | 15-Jun-05 | | |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | pH (solid) | 9 | | | none | 15-Jun-05 | | |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Actinium 227 ^d | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Actinium 228 | 2.24 | | | pCi/g | 15-Jun-05 | 0.71 | 0.37 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 15-Jun-05 | 1 | 1.9 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Bismuth 211 ^f | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Bismuth 212 | 1.05 | | | pCi/g | 15-Jun-05 | 0.67 | 0.77 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Bismuth 214 | 0.8 | | | pCi/g | 15-Jun-05 | 0.22 | 0.38 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Cobalt 57 | 0.021 U | | | pCi/g | 15-Jun-05 | 0.028 | 0.049 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Cobalt 60 | 0.038 U | | | pCi/g | 15-Jun-05 | 0.058 | 0.12 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lead 210 | 0.2 U | | | pCi/g | 15-Jun-05 | 1 | 1.9 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lead 211 ^g | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lead 212 | 1.54 | | | pCi/g | 15-Jun-05 | 0.26 | 0.16 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lead 214 | 1 | | | pCi/g | 15-Jun-05 | 0.22 | 0.15 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Polonium 210 ^h | 0.2 U | | | pCi/g | 15-Jun-05 | 1 | 1.9 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Polonium 212 ⁱ | 0.67 | | | pCi/g | 15-Jun-05 | 0.43 | 0.49 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Polonium 214 ^j | 0.8 | | | pCi/g | 15-Jun-05 | 0.22 | 0.15 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Polonium 215 ^k | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Polonium 216 ^l | 1.54 | | | pCi/g | 15-Jun-05 | 0.26 | 0.16 |
| HDWM21C4 | Soil | BRC-BKG-08C-4-6 | Polonium 218 ^m | 1.07 | | | pCi/g | 15-Jun-05 | 0.14 | 0.0919 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Potassium 40 | 25.3 | | | pCi/g | 15-Jun-05 | 3.6 | 5.4 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Protactinium 234 | -0.16 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.23 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Radium 223 ⁿ | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Radium 224 ^o | 1.54 | | | pCi/g | 15-Jun-05 | 0.26 | 0.16 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| HDWM21C4 | Soil | BRC-BKG-08C-4-6 | Radium 226 | 1.07 | | | pCi/g | 15-Jun-05 | 0.14 | 0.0919 |
| HDWM21C5 | Soil | BRC-BKG-08C-4-6 | Radium 228 | 2.11 | | | pCi/g | 15-Jun-05 | 0.23 | 0.549 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thallium 207 ^P | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thallium 208 | 0.56 | | | pCi/g | 15-Jun-05 | 0.13 | 0.09 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 227 | 0.13 U | | | pCi/g | 15-Jun-05 | 0.42 | 0.76 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 228 | 1.87 | | | pCi/g | 15-Jun-05 | 0.33 | 0.12 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 230 | 1.27 | | | pCi/g | 15-Jun-05 | 0.26 | 0.06 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 231 | 0.052 J | | | pCi/g | 15-Jun-05 | 0.058 | 0.035 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 232 | 1.77 | | | pCi/g | 15-Jun-05 | 0.31 | 0.05 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thorium 234 | 1.4 | | | pCi/g | 15-Jun-05 | 0.65 | 1.1 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Uranium 233/234 | 1.17 | | | pCi/g | 15-Jun-05 | 0.29 | 0.07 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Uranium 235 | 0.081 J | | | pCi/g | 15-Jun-05 | 0.08 | 0.044 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Uranium 238 | 0.95 J | | | pCi/g | 15-Jun-05 | 0.26 | 0.07 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Moisture (%) | 4.2 | | | percent | 15-Jun-05 | | |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Aluminum | 8010 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Antimony | N U | UJ- | e | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Arsenic | 3.7 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Barium | 118 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Beryllium | 0.66 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Calcium | 19900 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Chromium | 9.1 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Cobalt | 9.1 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Copper | 19.7 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Iron | 12600 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lead | 7.2 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Lithium | 11.6 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Magnesium | 9440 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Manganese | 350 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Mercury | U | | | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Molybdenum | 0.48 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Nickel | 19.5 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Palladium | 0.34 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Phosphorus | 1810 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Potassium | 1480 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Silicon | 653 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Sodium | 428 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Strontium | 159 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Thallium | 0.48 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Tin | 0.49 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Titanium | 531 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Tungsten | 0.7 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Uranium | 1 B | J | g | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Vanadium | 37 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Zinc | 35.8 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373018 | Soil | BRC-BKG-08C-4-6 | Zirconium | 149 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Chloride | 155 J | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Fluoride | 0.77 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Nitrate | 1.4 | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Sulfate | 73.1 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | CEC | 6.7 | | | meq/100g | 15-Jun-05 | | |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | pH (solid) | 8.6 | | | none | 15-Jun-05 | | |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Actinium 227 ^d | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Actinium 228 | 1.8 | | | pCi/g | 15-Jun-05 | 0.69 | 0.4 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Bismuth 210 ^e | 1.2 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.4 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Bismuth 211 ^f | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Bismuth 212 | 0.99 | | | pCi/g | 15-Jun-05 | 0.56 | 0.71 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Bismuth 214 | 0.89 | | | pCi/g | 15-Jun-05 | 0.25 | 0.44 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Cobalt 57 | -0.005 U | | | pCi/g | 15-Jun-05 | 0.032 | 0.055 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Cobalt 60 | -0.03 U | | | pCi/g | 15-Jun-05 | 0.054 | 0.093 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lead 210 | 1.2 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.4 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lead 211 ^g | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lead 212 | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.17 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lead 214 | 0.91 | | | pCi/g | 15-Jun-05 | 0.21 | 0.17 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Polonium 210 ^h | 1.2 U | | | pCi/g | 15-Jun-05 | 1.2 | 2.4 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Polonium 212 ⁱ | 0.63 | | | pCi/g | 15-Jun-05 | 0.36 | 0.45 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Polonium 214 ^j | 0.89 | | | pCi/g | 15-Jun-05 | 0.25 | 0.18 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Polonium 215 ^k | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Polonium 216 ^l | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.17 |
| HDWM41C4 | Soil | BRC-BKG-08C-9-11 | Polonium 218 ^m | 1.13 | | | pCi/g | 15-Jun-05 | 0.15 | 0.148 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Potassium 40 | 25.8 | | | pCi/g | 15-Jun-05 | 3.8 | 0.7 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Protactinium 234 | -0.24 U | | | pCi/g | 15-Jun-05 | 0.17 | 0.26 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Radium 223 ⁿ | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Radium 224 ^o | 1.69 | | | pCi/g | 15-Jun-05 | 0.3 | 0.17 |
| HDWM41C4 | Soil | BRC-BKG-08C-9-11 | Radium 226 | 1.13 | | | pCi/g | 15-Jun-05 | 0.15 | 0.148 |
| HDWM41C5 | Soil | BRC-BKG-08C-9-11 | Radium 228 | 1.93 J | J | k | pCi/g | 15-Jun-05 | 0.25 | 0.706 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thallium 207 ^p | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thallium 208 | 0.57 | | | pCi/g | 15-Jun-05 | 0.14 | 0.09 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 227 | 0.37 U | | | pCi/g | 15-Jun-05 | 0.49 | 0.91 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 228 | 1.84 | | | pCi/g | 15-Jun-05 | 0.38 | 0.17 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 230 | 1.66 | | | pCi/g | 15-Jun-05 | 0.35 | 0.09 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 231 | 0.063 U | | | pCi/g | 15-Jun-05 | 0.073 | 0.091 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 232 | 1.91 | | | pCi/g | 15-Jun-05 | 0.38 | 0.08 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thorium 234 | 0.27 U | | | pCi/g | 15-Jun-05 | 0.69 | 1.2 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Uranium 233/234 | 1.13 | | | pCi/g | 15-Jun-05 | 0.3 | 0.14 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Uranium 235 | 0.14 J | | | pCi/g | 15-Jun-05 | 0.11 | 0.11 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Uranium 238 | 1.01 | | | pCi/g | 15-Jun-05 | 0.27 | 0.1 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Moisture (%) | 3.2 | | | percent | 15-Jun-05 | | |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Aluminum | 8250 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Antimony | 0.15 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Arsenic | 3.7 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Barium | 139 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Beryllium | 0.67 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Boron | U | | | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Calcium | 28800 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Chromium | 10 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Cobalt | 9.2 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Copper | 20.4 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Iron | 13200 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lead | 6.3 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Lithium | 13.4 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Magnesium | 11500 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Manganese | 390 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Mercury | 0.07 | | | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Molybdenum | 0.52 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Nickel | 19.3 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Palladium | 0.39 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Phosphorus | 1660 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Potassium | 1250 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Selenium | 0.27 B | J | g | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Silicon | 610 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Sodium | 542 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Strontium | 177 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Thallium | 0.66 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Tin | 0.55 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Titanium | 621 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Tungsten | 0.74 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Uranium | 1.2 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Vanadium | 39.4 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Zinc | 36.9 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373019 | Soil | BRC-BKG-08C-9-11 | Zirconium | 142 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Chloride | 38.7 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Nitrate | 9.3 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Nitrite | 0.15 B | J | h, g | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Sulfate | 857 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | CEC | 15.1 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | pH (solid) | 8.2 | J | h | none | 14-Jun-05 | | |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Actinium 227 ^d | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Actinium 228 | 1.56 | | | pCi/g | 14-Jun-05 | 0.59 | 0.42 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Bismuth 210 ^e | 0.8 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Bismuth 211 ^f | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Bismuth 212 | 0.78 | | | pCi/g | 14-Jun-05 | 0.55 | 0.78 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Bismuth 214 | 0.87 | | | pCi/g | 14-Jun-05 | 0.25 | 0.17 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Cobalt 57 | -0.0007 U | | | pCi/g | 14-Jun-05 | 0.028 | 0.047 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Cobalt 60 | -0.049 U | | | pCi/g | 14-Jun-05 | 0.048 | 0.073 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lead 210 | 0.8 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lead 211 ^g | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lead 212 | 1.27 | | | pCi/g | 14-Jun-05 | 0.2 | 0.1 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lead 214 | 0.85 | | | pCi/g | 14-Jun-05 | 0.2 | 0.13 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Polonium 210 ^h | 0.8 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Polonium 212 ⁱ | 0.5 | | | pCi/g | 14-Jun-05 | 0.35 | 0.5 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Polonium 214 ^j | 0.87 | | | pCi/g | 14-Jun-05 | 0.25 | 0.17 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Polonium 215 ^k | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Polonium 216 ^l | 1.27 | | | pCi/g | 14-Jun-05 | 0.2 | 0.1 |
| HDRGV1C4 | Soil | BRC-BKG-09A-0-0.5 | Polonium 218 ^m | 0.792 J | J | k | pCi/g | 14-Jun-05 | 0.11 | 0.0975 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Potassium 40 | 20.3 | | | pCi/g | 14-Jun-05 | 3.5 | 1 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Protactinium 234 | -0.14 U | | | pCi/g | 14-Jun-05 | 0.14 | 0.22 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Radium 223 ⁿ | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Radium 224 ^o | 1.27 | | | pCi/g | 14-Jun-05 | 0.2 | 0.1 |
| HDRGV1C4 | Soil | BRC-BKG-09A-0-0.5 | Radium 226 | 0.792 J | J | k | pCi/g | 14-Jun-05 | 0.11 | 0.0975 |
| HDRGV1C5 | Soil | BRC-BKG-09A-0-0.5 | Radium 228 | 1.7 J | J | k | pCi/g | 14-Jun-05 | 0.26 | 0.847 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thallium 207 ^p | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thallium 208 | 0.47 | | | pCi/g | 14-Jun-05 | 0.12 | 0.09 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 227 | -0.29 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.62 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 228 | 1.5 | | | pCi/g | 14-Jun-05 | 0.32 | 0.15 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 230 | 0.92 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.08 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 231 | 0.11 U | | | pCi/g | 14-Jun-05 | 0.11 | 0.13 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 232 | 1.57 | | | pCi/g | 14-Jun-05 | 0.32 | 0.07 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thorium 234 | 0.6 U | | | pCi/g | 14-Jun-05 | 0.59 | 1 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Uranium 233/234 | 0.98 J | U | b | pCi/g | 14-Jun-05 | 0.28 | 0.15 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Uranium 235 | 0.11 U | | | pCi/g | 14-Jun-05 | 0.11 | 0.13 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Uranium 238 | 0.65 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.1 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Moisture (%) | 0.65 | | | percent | 14-Jun-05 | | |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Aluminum | 11200 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Arsenic | 4.3 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Barium | 142 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Beryllium | 0.32 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Boron | 8.8 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Calcium | 28000 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Chromium | 7.5 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Cobalt | 12.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Copper | 25.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Iron | 13700 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lead | 25.6 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Lithium | 12.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Magnesium | 13700 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Manganese | 460 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Mercury | 0.049 | | | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Molybdenum | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Nickel | 25.9 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Niobium | 1.8 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Palladium | 0.45 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Phosphorus | 1760 N | | | mg/kg | 14-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Potassium | 1580 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Silicon | 519 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Sodium | 410 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Strontium | 192 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Thallium | 1.2 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Tin | 0.59 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Titanium | 677 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Tungsten | 1.2 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Vanadium | 43.4 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Zinc | 45.9 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308017 | Soil | BRC-BKG-09A-0-0.5 | Zirconium | 166 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Chloride | 47.7 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Fluoride | 0.58 B | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Nitrate | 58.6 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Sulfate | 202 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | CEC | 14.6 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | pH (solid) | 8.4 | J | h | none | 14-Jun-05 | | |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Actinium 227 ^d | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Actinium 228 | 1.61 | | | pCi/g | 14-Jun-05 | 0.64 | 0.37 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Bismuth 210 ^e | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Bismuth 211 ^f | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Bismuth 212 | 0.53 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.95 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Bismuth 214 | 0.91 | | | pCi/g | 14-Jun-05 | 0.22 | 0.15 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Cobalt 57 | 0.013 U | | | pCi/g | 14-Jun-05 | 0.032 | 0.057 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Cobalt 60 | -0.015 U | | | pCi/g | 14-Jun-05 | 0.056 | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lead 210 | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lead 211 ^g | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lead 212 | 1.41 | | | pCi/g | 14-Jun-05 | 0.25 | 0.21 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lead 214 | 0.85 | | | pCi/g | 14-Jun-05 | 0.24 | 0.17 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Polonium 210 ^h | -0.3 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Polonium 212 ⁱ | 0.34 U | | | pCi/g | 14-Jun-05 | 0.3 | 0.61 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Polonium 214 ^j | 0.91 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Polonium 215 ^k | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Polonium 216 ^l | 1.41 | | | pCi/g | 14-Jun-05 | 0.25 | 0.21 |
| HDRGW1C4 | Soil | BRC-BKG-09A-4-6 | Polonium 218 ^m | 0.865 J | J | k, n | pCi/g | 14-Jun-05 | 0.13 | 0.172 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Potassium 40 | 22.2 | | | pCi/g | 14-Jun-05 | 3.4 | 0.9 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Protactinium 234 | 0.03 U | | | pCi/g | 14-Jun-05 | 0.17 | 0.3 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Radium 223 ⁿ | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Radium 224 ^o | 1.41 | | | pCi/g | 14-Jun-05 | 0.25 | 0.21 |
| HDRGW1C4 | Soil | BRC-BKG-09A-4-6 | Radium 226 | 0.865 J | J | k, n | pCi/g | 14-Jun-05 | 0.13 | 0.172 |
| HDRGW1C5 | Soil | BRC-BKG-09A-4-6 | Radium 228 | 1.44 J | J | k | pCi/g | 14-Jun-05 | 0.25 | 0.85 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thallium 207 ^p | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thallium 208 | 0.61 | | | pCi/g | 14-Jun-05 | 0.13 | 0.06 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 227 | -0.52 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.72 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 228 | 1.82 | | | pCi/g | 14-Jun-05 | 0.34 | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 230 | 1.13 | | | pCi/g | 14-Jun-05 | 0.26 | 0.05 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 231 | 0.12 J | U | b | pCi/g | 14-Jun-05 | 0.1 | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 232 | 1.97 | | | pCi/g | 14-Jun-05 | 0.36 | 0.07 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thorium 234 | 1.3 | | | pCi/g | 14-Jun-05 | 1.1 | 1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Uranium 233/234 | 0.92 J | U | b | pCi/g | 14-Jun-05 | 0.24 | 0.11 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Uranium 235 | 0.12 J | J | k | pCi/g | 14-Jun-05 | 0.1 | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Uranium 238 | 1.01 | | | pCi/g | 14-Jun-05 | 0.25 | 0.1 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Moisture (%) | 3.8 | | | percent | 14-Jun-05 | | |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Aluminum | 11100 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Arsenic | 3.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Barium | 218 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Beryllium | 0.42 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Boron | 5.8 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Calcium | 37300 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Chromium | 9.8 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Cobalt | 9.7 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Copper | 20.8 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Iron | 14600 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lead | 9.3 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Lithium | 14.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Magnesium | 11000 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Manganese | 380 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Mercury | 0.027 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Molybdenum | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Nickel | 17.5 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Palladium | 0.55 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Phosphorus | 1230 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Potassium | 2110 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Silicon | 476 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Sodium | 303 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Strontium | 260 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Thallium | 0.98 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Tin | 0.55 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Titanium | 671 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Tungsten | 1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Uranium | 0.9 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Vanadium | 42.7 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Zinc | 37.9 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308018 | Soil | BRC-BKG-09A-4-6 | Zirconium | 138 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Chloride | 22.9 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Fluoride | 0.93 B | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Nitrate | 20.8 | J | h | mg/kg | 14-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|-------|
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Sulfate | 147 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | CEC | 7.9 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | pH (solid) | 8.5 | J | h | none | 14-Jun-05 | | |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Actinium 227 ^d | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Actinium 228 | 1.51 | | | pCi/g | 14-Jun-05 | 0.6 | 0.32 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Bismuth 210 ^e | 0.91 U | | | pCi/g | 14-Jun-05 | 0.95 | 1.8 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Bismuth 211 ^f | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Bismuth 212 | 0.84 | | | pCi/g | 14-Jun-05 | 0.59 | 0.65 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Bismuth 214 | 1.02 | | | pCi/g | 14-Jun-05 | 0.25 | 0.16 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Cobalt 57 | -0.0003 U | | | pCi/g | 14-Jun-05 | 0.027 | 0.045 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Cobalt 60 | 0.003 U | | | pCi/g | 14-Jun-05 | 0.052 | 0.1 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lead 210 | 0.91 U | | | pCi/g | 14-Jun-05 | 0.96 | 1.8 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lead 211 ^g | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lead 212 | 1.62 | | | pCi/g | 14-Jun-05 | 0.28 | 0.15 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lead 214 | 0.99 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Polonium 210 ^h | 0.91 U | | | pCi/g | 14-Jun-05 | 0.95 | 1.8 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Polonium 212 ⁱ | 0.54 | | | pCi/g | 14-Jun-05 | 0.38 | 0.42 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Polonium 214 ^j | 1.02 | | | pCi/g | 14-Jun-05 | 0.24 | 0.16 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Polonium 215 ^k | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Polonium 216 ^l | 1.62 | | | pCi/g | 14-Jun-05 | 0.28 | 0.15 |
| HDRGX1C6 | Soil | BRC-BKG-09A-9-11 | Polonium 218 ^m | 1.13 | | | pCi/g | 14-Jun-05 | 0.15 | 0.134 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Potassium 40 | 25.8 | | | pCi/g | 14-Jun-05 | 3.6 | 0.6 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Protactinium 234 | -0.12 U | | | pCi/g | 14-Jun-05 | 0.14 | 0.23 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Radium 223 ⁿ | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Radium 224 ^o | 1.62 | | | pCi/g | 14-Jun-05 | 0.28 | 0.15 |
| HDRGX1C6 | Soil | BRC-BKG-09A-9-11 | Radium 226 | 1.13 | | | pCi/g | 14-Jun-05 | 0.15 | 0.134 |
| HDRGX1C7 | Soil | BRC-BKG-09A-9-11 | Radium 228 | 1.73 J | J | k | pCi/g | 14-Jun-05 | 0.24 | 0.76 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thallium 207 ^p | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thallium 208 | 0.71 | | | pCi/g | 14-Jun-05 | 0.16 | 0.08 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 227 | 0.31 U | | | pCi/g | 14-Jun-05 | 0.4 | 0.75 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 228 | 1.37 | | | pCi/g | 14-Jun-05 | 0.61 | 0.61 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 230 | 1.3 | | | pCi/g | 14-Jun-05 | 0.44 | 0.24 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 231 | 0.087 J | U | b | pCi/g | 14-Jun-05 | 0.083 | 0.077 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 232 | 1.41 | | | pCi/g | 14-Jun-05 | 0.45 | 0.21 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thorium 234 | 1.48 | | | pCi/g | 14-Jun-05 | 0.49 | 0.85 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Uranium 233/234 | 0.95 J | U | b | pCi/g | 14-Jun-05 | 0.26 | 0.1 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Uranium 235 | 0.087 J | J | k | pCi/g | 14-Jun-05 | 0.083 | 0.077 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Uranium 238 | 1.36 | | | pCi/g | 14-Jun-05 | 0.32 | 0.04 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Moisture (%) | 4.3 | | | percent | 14-Jun-05 | | |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Aluminum | 12000 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Arsenic | 4 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Barium | 171 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Beryllium | 0.42 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Boron | 5.5 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Calcium | 19200 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Chromium | 14.1 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Cobalt | 11.3 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Copper | 23.9 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Iron | 14300 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lead | 6.6 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Lithium | 16 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Magnesium | 12400 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Manganese | 499 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Mercury | 0.013 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Molybdenum | 0.42 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Nickel | 19.1 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Niobium | 1.2 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Palladium | 0.33 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Phosphorus | 1420 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Potassium | 1380 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Silicon | 423 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Sodium | 213 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Strontium | 153 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Thallium | 1.2 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Tin | 0.51 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Titanium | 674 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Tungsten | 1.1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Vanadium | 44.4 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Zinc | 37.4 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308019 | Soil | BRC-BKG-09A-9-11 | Zirconium | 149 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Chloride | 7 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Sulfate | 318 J | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | CEC | 13.3 J | J | g | meq/100g | 14-Jun-05 | | |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | pH (solid) | 8.1 | J | h | none | 14-Jun-05 | | |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Actinium 227 ^d | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Actinium 228 | 1.48 | | | pCi/g | 14-Jun-05 | 0.55 | 0.31 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Bismuth 211 ^f | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Bismuth 212 | 0.83 | | | pCi/g | 14-Jun-05 | 0.56 | 0.6 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Bismuth 214 | 0.95 | | | pCi/g | 14-Jun-05 | 0.21 | 0.35 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Cobalt 57 | -0.002 U | | | pCi/g | 14-Jun-05 | 0.027 | 0.045 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Cobalt 60 | 0.006 U | | | pCi/g | 14-Jun-05 | 0.058 | 0.11 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lead 210 | 0.6 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lead 211 ^g | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lead 212 | 1.13 | | | pCi/g | 14-Jun-05 | 0.22 | 0.17 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lead 214 | 0.93 | | | pCi/g | 14-Jun-05 | 0.21 | 0.12 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Polonium 210 ^h | 0.6 U | | | pCi/g | 14-Jun-05 | 1.1 | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Polonium 212 ⁱ | 0.53 | | | pCi/g | 14-Jun-05 | 0.36 | 0.39 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Polonium 214 ^j | 0.95 | | | pCi/g | 14-Jun-05 | 0.21 | 0.17 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Polonium 215 ^k | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Polonium 216 ^l | 1.13 | | | pCi/g | 14-Jun-05 | 0.22 | 0.17 |
| HDRFK1C4 | Soil | BRC-BKG-09B-0-0.5 | Polonium 218 ^m | 0.877 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.124 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Potassium 40 | 21.5 | | | pCi/g | 14-Jun-05 | 3.5 | 0.9 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Protactinium 234 | -0.09 U | | | pCi/g | 14-Jun-05 | 0.13 | 0.22 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Radium 223 ⁿ | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Radium 224 ^o | 1.13 | | | pCi/g | 14-Jun-05 | 0.22 | 0.17 |
| HDRFK1C4 | Soil | BRC-BKG-09B-0-0.5 | Radium 226 | 0.877 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.124 |
| HDRFK2C5 | Soil | BRC-BKG-09B-0-0.5 | Radium 228 | 1.11 J | U | k, b | pCi/g | 14-Jun-05 | 0.17 | 0.487 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thallium 207 ^p | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thallium 208 | 0.46 | | | pCi/g | 14-Jun-05 | 0.11 | 0.09 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 227 | -0.49 U | | | pCi/g | 14-Jun-05 | 0.38 | 0.59 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 228 | 1.77 | | | pCi/g | 14-Jun-05 | 0.35 | 0.14 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 230 | 0.91 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.07 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 231 | 0.101 J | U | b | pCi/g | 14-Jun-05 | 0.08 | 0.063 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 232 | 1.71 | | | pCi/g | 14-Jun-05 | 0.33 | 0.05 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thorium 234 | 1.92 | | | pCi/g | 14-Jun-05 | 0.7 | 0.91 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Uranium 233/234 | 0.97 J | U | b | pCi/g | 14-Jun-05 | 0.24 | 0.08 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Uranium 235 | 0.101 J | J | k | pCi/g | 14-Jun-05 | 0.08 | 0.063 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Uranium 238 | 1.05 | | | pCi/g | 14-Jun-05 | 0.25 | 0.03 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Moisture (%) | 0.65 | | | percent | 14-Jun-05 | | |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Aluminum | 6340 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Arsenic | 2.9 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Barium | 154 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Beryllium | 0.16 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Boron | 4.8 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Calcium | 15000 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Chromium | 8.4 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Cobalt | 10.1 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Copper | 23.1 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Iron | 9030 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lead | 35.1 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Lithium | 10 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Magnesium | 10500 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Manganese | 282 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Mercury | 0.082 | | | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Molybdenum | 0.34 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Nickel | 27.8 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Palladium | 0.3 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Phosphorus | 1220 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Platinum | 0.082 B | J | g | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Potassium | 1420 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Silicon | 409 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Sodium | 128 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Strontium | 143 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Thallium | 0.75 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Tin | 0.8 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Titanium | 438 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Tungsten | 1 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Uranium | 0.87 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Vanadium | 33.9 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Zinc | 38.9 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308009 | Soil | BRC-BKG-09B-0-0.5 | Zirconium | 117 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Chloride | 134 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Fluoride | 1.4 | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Nitrate | 54.9 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Sulfate | 419 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | CEC | 11.3 | | | meq/100g | 14-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | pH (solid) | 8.2 | J | h | none | 14-Jun-05 | | |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Actinium 227 ^d | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Actinium 228 | 2.04 | | | pCi/g | 14-Jun-05 | 0.73 | 0.33 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Bismuth 210 ^e | 0.2 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.6 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Bismuth 211 ^f | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Bismuth 212 | 1.32 | | | pCi/g | 14-Jun-05 | 0.6 | 1.3 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Bismuth 214 | 1.05 | | | pCi/g | 14-Jun-05 | 0.27 | 0.49 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Cobalt 57 | 0.009 U | | | pCi/g | 14-Jun-05 | 0.034 | 0.06 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Cobalt 60 | 0.023 U | | | pCi/g | 14-Jun-05 | 0.061 | 0.13 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lead 210 | 0.2 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.6 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lead 211 ^g | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lead 212 | 1.72 | | | pCi/g | 14-Jun-05 | 0.3 | 0.18 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lead 214 | 0.88 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Polonium 210 ^h | 0.2 U | | | pCi/g | 14-Jun-05 | 1.4 | 2.6 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Polonium 212 ⁱ | 0.85 | | | pCi/g | 14-Jun-05 | 0.38 | 0.84 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Polonium 214 ^j | 1.05 | | | pCi/g | 14-Jun-05 | 0.27 | 0.18 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Polonium 215 ^k | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Polonium 216 ^l | 1.72 | | | pCi/g | 14-Jun-05 | 0.3 | 0.18 |
| HDRG21C6 | Soil | BRC-BKG-09B-4-6 | Polonium 218 ^m | 0.784 J | J | k | pCi/g | 14-Jun-05 | 0.13 | 0.188 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Potassium 40 | 22.8 | | | pCi/g | 14-Jun-05 | 3.8 | 1.2 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Protactinium 234 | -0.29 U | | | pCi/g | 14-Jun-05 | 0.18 | 0.27 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Radium 223 ⁿ | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Radium 224 ^o | 1.72 | | | pCi/g | 14-Jun-05 | 0.3 | 0.18 |
| HDRG21C6 | Soil | BRC-BKG-09B-4-6 | Radium 226 | 0.784 J | J | k | pCi/g | 14-Jun-05 | 0.13 | 0.188 |
| HDRG21C7 | Soil | BRC-BKG-09B-4-6 | Radium 228 | 1.66 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.705 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thallium 207 ^p | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thallium 208 | 0.52 | | | pCi/g | 14-Jun-05 | 0.15 | 0.12 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 227 | 0.4 U | | | pCi/g | 14-Jun-05 | 0.49 | 0.93 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 228 | 1.98 | | | pCi/g | 14-Jun-05 | 0.44 | 0.32 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 230 | 1.04 | | | pCi/g | 14-Jun-05 | 0.26 | 0.12 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 231 | 0.057 U | | | pCi/g | 14-Jun-05 | 0.069 | 0.087 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 232 | 1.74 | | | pCi/g | 14-Jun-05 | 0.35 | 0.07 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thorium 234 | 0.95 U | | | pCi/g | 14-Jun-05 | 0.73 | 1.4 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Uranium 233/234 | 0.94 J | U | b | pCi/g | 14-Jun-05 | 0.23 | 0.11 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Uranium 235 | 0.057 U | | | pCi/g | 14-Jun-05 | 0.069 | 0.087 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Uranium 238 | 0.93 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.08 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Moisture (%) | 4.3 | | | percent | 14-Jun-05 | | |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Aluminum | 15300 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Arsenic | 4.5 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Barium | 240 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Beryllium | 0.47 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Boron | 9.1 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Calcium | 49200 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Chromium | 9.7 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Cobalt | 11.1 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Copper | 19.6 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Iron | 14200 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lead | 9.8 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Lithium | 15.8 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Magnesium | 11600 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Manganese | 383 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Mercury | 0.019 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Molybdenum | 0.35 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Nickel | 18.1 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Niobium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Palladium | 0.62 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Phosphorus | 1060 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Platinum | 0.099 B | J | g | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Potassium | 2340 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Silicon | 719 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Sodium | 413 | | | mg/kg | 14-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Strontium | 364 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Thallium | 0.71 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Tin | 0.75 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Titanium | 1010 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Tungsten | 0.84 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Vanadium | 50.3 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Zinc | 40.5 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308020 | Soil | BRC-BKG-09B-4-6 | Zirconium | 146 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Chloride | 26 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Fluoride | 1 | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Nitrate | 10.4 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Sulfate | 63.7 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | CEC | 9.2 | | | meq/100g | 14-Jun-05 | | |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | pH (solid) | 8.6 | J | h | none | 14-Jun-05 | | |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Actinium 227 ^d | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Actinium 228 | 2 | | | pCi/g | 14-Jun-05 | 0.75 | 0.41 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Bismuth 210 ^e | 0.9 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Bismuth 211 ^f | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Bismuth 212 | 1.32 | | | pCi/g | 14-Jun-05 | 0.67 | 0.87 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Bismuth 214 | 1 | | | pCi/g | 14-Jun-05 | 0.27 | 0.39 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Cobalt 57 | 0.025 U | | | pCi/g | 14-Jun-05 | 0.031 | 0.054 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Cobalt 60 | 0.014 U | | | pCi/g | 14-Jun-05 | 0.054 | 0.1 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lead 210 | 0.9 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lead 211 ^g | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lead 212 | 1.64 | | | pCi/g | 14-Jun-05 | 0.28 | 0.21 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lead 214 | 1.1 | | | pCi/g | 14-Jun-05 | 0.24 | 0.17 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Polonium 210 ^h | 0.9 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Polonium 212 ⁱ | 0.85 | | | pCi/g | 14-Jun-05 | 0.43 | 0.56 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Polonium 214 ^j | 1 | | | pCi/g | 14-Jun-05 | 0.26 | 0.17 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Polonium 215 ^k | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Polonium 216 ^l | 1.64 | | | pCi/g | 14-Jun-05 | 0.28 | 0.21 |
| HDRG31C4 | Soil | BRC-BKG-09B-9-11 | Polonium 218 ^m | 1.54 | | | pCi/g | 14-Jun-05 | 0.19 | 0.109 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Potassium 40 | 27 | | | pCi/g | 14-Jun-05 | 4 | 1.1 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Protactinium 234 | 0.13 U | | | pCi/g | 14-Jun-05 | 0.18 | 0.28 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Radium 223 ⁿ | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Radium 224 ^o | 1.64 | | | pCi/g | 14-Jun-05 | 0.28 | 0.21 |
| HDRG31C4 | Soil | BRC-BKG-09B-9-11 | Radium 226 | 1.54 | | | pCi/g | 14-Jun-05 | 0.19 | 0.109 |
| HDRG31C5 | Soil | BRC-BKG-09B-9-11 | Radium 228 | 2.18 | | | pCi/g | 14-Jun-05 | 0.27 | 0.729 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thallium 207 ^p | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thallium 208 | 0.59 | | | pCi/g | 14-Jun-05 | 0.15 | 0.1 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 227 | -0.33 U | | | pCi/g | 14-Jun-05 | 0.44 | 0.73 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 228 | 1.78 | | | pCi/g | 14-Jun-05 | 0.35 | 0.14 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 230 | 1.69 | | | pCi/g | 14-Jun-05 | 0.33 | 0.07 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 231 | 0.016 U | | | pCi/g | 14-Jun-05 | 0.052 | 0.094 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 232 | 1.85 | | | pCi/g | 14-Jun-05 | 0.34 | 0.05 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thorium 234 | 2.08 | | | pCi/g | 14-Jun-05 | 0.68 | 1.2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Uranium 233/234 | 1.25 | J+ | b | pCi/g | 14-Jun-05 | 0.28 | 0.08 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Uranium 235 | 0.016 U | | | pCi/g | 14-Jun-05 | 0.052 | 0.094 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Uranium 238 | 1.2 | | | pCi/g | 14-Jun-05 | 0.27 | 0.07 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Moisture (%) | 2.8 | | | percent | 14-Jun-05 | | |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Aluminum | 8560 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Arsenic | 4.2 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Barium | 146 N | J | e | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Beryllium | 0.29 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Boron | 3.9 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Calcium | 31900 N | | | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Chromium | 7.6 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Cobalt | 8.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Copper | 22.5 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Iron | 11700 N | | | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lead | 5.9 | | | mg/kg | 14-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Lithium | 13.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Magnesium | 8450 NE | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Manganese | 327 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Mercury | 0.017 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Molybdenum | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Nickel | 14.7 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Niobium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Palladium | 0.29 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Phosphorus | 1240 N | | | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Potassium | 1410 E | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Silicon | 449 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Sodium | 196 | | | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Strontium | 149 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Thallium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Tin | 0.46 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Titanium | 597 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Tungsten | 0.93 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Uranium | 0.93 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Vanadium | 38.8 E | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Zinc | 27.8 | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308021 | Soil | BRC-BKG-09B-9-11 | Zirconium | 134 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Chloride | 1.6 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Sulfate | 5.1 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | CEC | 14.9 | | | meq/100g | 14-Jun-05 | | |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | pH (solid) | 8.9 | J | h | none | 14-Jun-05 | | |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Actinium 227 ^d | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Actinium 228 | 1.71 | | | pCi/g | 14-Jun-05 | 0.6 | 0.47 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Bismuth 211 ^f | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Bismuth 212 | 0.9 | | | pCi/g | 14-Jun-05 | 0.6 | 0.79 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Bismuth 214 | 0.73 | | | pCi/g | 14-Jun-05 | 0.21 | 0.39 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Cobalt 57 | -0.016 U | | | pCi/g | 14-Jun-05 | 0.032 | 0.053 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Cobalt 60 | -0.025 U | | | pCi/g | 14-Jun-05 | 0.056 | 0.099 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lead 210 | 0.5 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lead 211 ^g | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lead 212 | 1.3 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lead 214 | 0.85 | | | pCi/g | 14-Jun-05 | 0.21 | 0.16 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Polonium 210 ^h | 0.5 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.3 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Polonium 212 ⁱ | 0.58 | | | pCi/g | 14-Jun-05 | 0.39 | 0.51 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Polonium 214 ^j | 0.73 | | | pCi/g | 14-Jun-05 | 0.21 | 0.15 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Polonium 215 ^k | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Polonium 216 ^l | 1.3 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| HDRG51FL | Soil | BRC-BKG-09C-0-0.5 | Polonium 218 ^m | 1.14 | J | n | pCi/g | 14-Jun-05 | 0.15 | 0.119 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Potassium 40 | 23.7 | | | pCi/g | 14-Jun-05 | 3.6 | 1 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Protactinium 234 | 0.01 U | | | pCi/g | 14-Jun-05 | 0.15 | 0.26 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Radium 223 ⁿ | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Radium 224 ^o | 1.3 | | | pCi/g | 14-Jun-05 | 0.23 | 0.17 |
| HDRG51FL | Soil | BRC-BKG-09C-0-0.5 | Radium 226 | 1.14 | J | n | pCi/g | 14-Jun-05 | 0.15 | 0.119 |
| HDRG51FM | Soil | BRC-BKG-09C-0-0.5 | Radium 228 | 1.97 J | J | k | pCi/g | 14-Jun-05 | 0.25 | 0.649 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thallium 207 ^p | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thallium 208 | 0.47 | | | pCi/g | 14-Jun-05 | 0.14 | 0.09 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 227 | -0.06 U | | | pCi/g | 14-Jun-05 | 0.43 | 0.76 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 228 | 1.9 | | | pCi/g | 14-Jun-05 | 0.38 | 0.25 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 230 | 1.2 | | | pCi/g | 14-Jun-05 | 0.26 | 0.1 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 231 | 0.054 J | U | b | pCi/g | 14-Jun-05 | 0.06 | 0.036 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 232 | 1.54 | | | pCi/g | 14-Jun-05 | 0.3 | 0.08 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thorium 234 | 0.73 U | | | pCi/g | 14-Jun-05 | 0.65 | 1.2 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Uranium 233/234 | 0.79 J | U | b | pCi/g | 14-Jun-05 | 0.2 | 0.06 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Uranium 235 | 0.054 J | J | k | pCi/g | 14-Jun-05 | 0.06 | 0.036 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|--------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Uranium 238 | 0.69 J | J | k | pCi/g | 14-Jun-05 | 0.18 | 0.05 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Moisture (%) | 1.3 | | | percent | 14-Jun-05 | | |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Aluminum | 10400 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Arsenic | 3.7 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Barium | 190 NE | J | j | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Beryllium | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Boron | 4.9 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Calcium | 22700 NE | J | j | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Chromium | 11.3 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Cobalt | 9.9 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Copper | 19.6 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Iron | 17400 NE | J | j | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lead | 11.1 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Lithium | 13.2 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Magnesium | 10300 E | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Manganese | 445 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Mercury | 0.034 | | | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Molybdenum | 0.51 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Nickel | 18.9 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Niobium | 2.5 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Palladium | 0.45 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Phosphorus | 1540 NE | J | j | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Potassium | 1800 NE | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Silicon | 620 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Sodium | 357 E | J | j | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Strontium | 203 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Thallium | 1.7 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Tin | 0.69 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Titanium | 864 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Uranium | 0.97 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Vanadium | 46.1 NE | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Zinc | 63.6 N | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308022 | Soil | BRC-BKG-09C-0-0.5 | Zirconium | 145 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Chloride | 2.4 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Fluoride | 1.2 | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Nitrate | 1.8 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Sulfate | 108 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | CEC | 19.5 | | | meq/100g | 14-Jun-05 | | |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | pH (solid) | 8.8 | J | h | none | 14-Jun-05 | | |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Actinium 227 ^d | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Actinium 228 | 1.8 | | | pCi/g | 14-Jun-05 | 0.62 | 0.4 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Bismuth 210 ^e | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Bismuth 211 ^f | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Bismuth 212 | 1.17 | | | pCi/g | 14-Jun-05 | 0.54 | 1.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Bismuth 214 | 0.82 | | | pCi/g | 14-Jun-05 | 0.25 | 0.39 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Cobalt 57 | -0.008 U | | | pCi/g | 14-Jun-05 | 0.033 | 0.056 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Cobalt 60 | 0.002 U | | | pCi/g | 14-Jun-05 | 0.051 | 0.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lead 210 | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lead 211 ^g | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lead 212 | 1.43 | | | pCi/g | 14-Jun-05 | 0.25 | 0.2 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lead 214 | 0.72 | | | pCi/g | 14-Jun-05 | 0.19 | 0.16 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Polonium 210 ^h | -0.1 U | | | pCi/g | 14-Jun-05 | 1.2 | 2.1 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Polonium 212 ⁱ | 0.75 | | | pCi/g | 14-Jun-05 | 0.34 | 0.73 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Polonium 214 ^j | 0.82 | | | pCi/g | 14-Jun-05 | 0.25 | 0.18 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Polonium 215 ^k | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Polonium 216 ^l | 1.43 | | | pCi/g | 14-Jun-05 | 0.25 | 0.2 |
| HDRHD1C4 | Soil | BRC-BKG-09C-4-6 | Polonium 218 ^m | 0.97 J | J | k | pCi/g | 14-Jun-05 | 0.13 | 0.0996 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Potassium 40 | 22.9 | | | pCi/g | 14-Jun-05 | 3.6 | 1.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Protactinium 234 | -0.1 U | | | pCi/g | 14-Jun-05 | 0.16 | 0.27 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Radium 223 ⁿ | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Radium 224 ^o | 1.43 | | | pCi/g | 14-Jun-05 | 0.25 | 0.2 |
| HDRHD1C4 | Soil | BRC-BKG-09C-4-6 | Radium 226 | 0.97 J | J | k | pCi/g | 14-Jun-05 | 0.13 | 0.0996 |
| HDRHD1C5 | Soil | BRC-BKG-09C-4-6 | Radium 228 | 1.37 J | J | k | pCi/g | 14-Jun-05 | 0.21 | 0.621 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thallium 207 ^p | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thallium 208 | 0.61 | | | pCi/g | 14-Jun-05 | 0.16 | 0.09 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 227 | -0.29 U | | | pCi/g | 14-Jun-05 | 0.47 | 0.77 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 228 | 1.67 | | | pCi/g | 14-Jun-05 | 0.32 | 0.15 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 230 | 0.75 J | J | k | pCi/g | 14-Jun-05 | 0.2 | 0.09 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 231 | 0.052 U | | | pCi/g | 14-Jun-05 | 0.071 | 0.096 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 232 | 1.4 | | | pCi/g | 14-Jun-05 | 0.27 | 0.07 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thorium 234 | 0.32 U | | | pCi/g | 14-Jun-05 | 0.81 | 1.2 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Uranium 233/234 | 0.76 J | U | b | pCi/g | 14-Jun-05 | 0.21 | 0.11 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Uranium 235 | 0.052 U | | | pCi/g | 14-Jun-05 | 0.071 | 0.096 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Uranium 238 | 0.87 J | J | k | pCi/g | 14-Jun-05 | 0.22 | 0.07 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Moisture (%) | 5.8 | | | percent | 14-Jun-05 | | |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Aluminum | 12600 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Arsenic | 3.9 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Barium | 264 NE | J | j | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Beryllium | 0.49 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Boron | 6.8 | J+ | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Calcium | 35600 NE | J | j | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Chromium | 11.6 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Cobalt | 12.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Copper | 21.2 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Iron | 16600 NE | J | j | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lead | 8.8 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Lithium | 15.4 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Magnesium | 12700 E | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Manganese | 556 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Mercury | 0.027 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Molybdenum | 0.55 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Nickel | 22.7 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Palladium | 0.5 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Phosphorus | 1460 NE | J | j | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Potassium | 2080 NE | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Silicon | 497 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Sodium | 451 E | J | j | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Strontium | 229 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Thallium | 1.1 B | U | b | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Tin | 0.63 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Titanium | 879 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Tungsten | 1.9 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Uranium | 1.1 | | | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Vanadium | 48 NE | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Zinc | 45 N | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308024 | Soil | BRC-BKG-09C-4-6 | Zirconium | 151 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Chloride | 4.1 | | | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Fluoride | 1.6 | U | b | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Nitrate | 3.2 | J | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Sulfate | 22.6 | | | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | CEC | 18.2 | | | meq/100g | 14-Jun-05 | | |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | pH (solid) | 8.9 | J | h | none | 14-Jun-05 | | |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Actinium 227 ^d | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Actinium 228 | 1.6 | | | pCi/g | 14-Jun-05 | 0.56 | 0.31 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Bismuth 210 ^e | 1.3 U | | | pCi/g | 14-Jun-05 | 0.98 | 1.9 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Bismuth 211 ^f | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|-------|
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Bismuth 212 | 1.39 | | | pCi/g | 14-Jun-05 | 0.69 | 0.66 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Bismuth 214 | 0.83 | | | pCi/g | 14-Jun-05 | 0.21 | 0.37 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Cobalt 57 | 0.04 U | | | pCi/g | 14-Jun-05 | 0.028 | 0.052 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Cobalt 60 | -0.017 U | | | pCi/g | 14-Jun-05 | 0.051 | 0.095 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lead 210 | 1.3 U | | | pCi/g | 14-Jun-05 | 0.98 | 1.9 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lead 211 ^g | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lead 212 | 1.58 | | | pCi/g | 14-Jun-05 | 0.24 | 0.12 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lead 214 | 0.83 | | | pCi/g | 14-Jun-05 | 0.19 | 0.17 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Polonium 210 ^h | 1.3 U | | | pCi/g | 14-Jun-05 | 0.98 | 1.9 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Polonium 212 ⁱ | 0.89 | | | pCi/g | 14-Jun-05 | 0.44 | 0.42 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Polonium 214 ^j | 0.83 | | | pCi/g | 14-Jun-05 | 0.2 | 0.18 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Polonium 215 ^k | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Polonium 216 ^l | 1.58 | | | pCi/g | 14-Jun-05 | 0.24 | 0.12 |
| HDRHE1DG | Soil | BRC-BKG-09C-9-11 | Polonium 218 ^m | 0.938 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.139 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Potassium 40 | 21.9 | | | pCi/g | 14-Jun-05 | 3.2 | 0.7 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Protactinium 234 | -0.03 U | | | pCi/g | 14-Jun-05 | 0.16 | 0.23 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Radium 223 ⁿ | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Radium 224 ^o | 1.58 | | | pCi/g | 14-Jun-05 | 0.24 | 0.12 |
| HDRHE1DG | Soil | BRC-BKG-09C-9-11 | Radium 226 | 0.938 J | J | k | pCi/g | 14-Jun-05 | 0.12 | 0.139 |
| HDRHE1DH | Soil | BRC-BKG-09C-9-11 | Radium 228 | 2.18 | | | pCi/g | 14-Jun-05 | 0.27 | 0.623 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thallium 207 ^p | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thallium 208 | 0.55 | | | pCi/g | 14-Jun-05 | 0.13 | 0.09 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 227 | -0.1 U | | | pCi/g | 14-Jun-05 | 0.39 | 0.68 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 228 | 2.13 | | | pCi/g | 14-Jun-05 | 0.39 | 0.17 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 230 | 1.39 | | | pCi/g | 14-Jun-05 | 0.29 | 0.06 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 231 | 0.041 U | | | pCi/g | 14-Jun-05 | 0.065 | 0.093 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 232 | 1.69 | | | pCi/g | 14-Jun-05 | 0.33 | 0.08 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thorium 234 | 1.44 | | | pCi/g | 14-Jun-05 | 0.47 | 0.9 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Uranium 233/234 | 1.31 | | | pCi/g | 14-Jun-05 | 0.28 | 0.1 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Uranium 235 | 0.041 U | | | pCi/g | 14-Jun-05 | 0.065 | 0.093 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Uranium 238 | 0.94 J | J | k | pCi/g | 14-Jun-05 | 0.23 | 0.09 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Moisture (%) | 4.7 | | | percent | 14-Jun-05 | | |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Aluminum | 11200 NE | J | j | mg/kg | 14-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Arsenic | 3.6 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Barium | 154 NE | J | j | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Beryllium | 0.42 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Boron | 5.1 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Calcium | 17900 NE | J | j | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Chromium | 8.2 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Cobalt | 11.3 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Copper | 21.7 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Iron | 14900 NE | J | j | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lead | 5.6 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Lithium | 14.1 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Magnesium | 11600 E | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Manganese | 465 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Mercury | 0.011 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Molybdenum | 0.66 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Nickel | 22.1 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Niobium | 1.1 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Palladium | 0.49 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Phosphorus | 1880 NE | J | j | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Potassium | 1300 NE | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Silicon | 428 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Sodium | 329 E | J | j | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Strontium | 206 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Thallium | 1.2 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Tin | 0.59 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Titanium | 858 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Uranium | 1.3 | | | mg/kg | 14-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Vanadium | 56 NE | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Zinc | 34.9 N | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308025 | Soil | BRC-BKG-09C-9-11 | Zirconium | 171 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| HD3CH1C4 | Soil | BRC-BKG-11A 9-11 | Polonium 218 ^m | 1.65 | | | pCi/g | 17-Jun-05 | 0.22 | 0.179 |
| HD3CH1C4 | Soil | BRC-BKG-11A 9-11 | Radium 226 | 1.65 | | | pCi/g | 17-Jun-05 | 0.22 | 0.179 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Chloride | 0.72 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Nitrate | 0.18 B | J | h, g | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Sulfate | 1.2 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | CEC | 10.3 | | | meq/100g | 17-Jun-05 | | |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | pH (solid) | 8.6 | J | h | none | 17-Jun-05 | | |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Actinium 227 ^d | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Actinium 228 | 2.31 | | | pCi/g | 17-Jun-05 | 0.77 | 0.34 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Bismuth 210 ^e | 1.1 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Bismuth 211 ^f | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Bismuth 212 | 0.56 U | | | pCi/g | 17-Jun-05 | 0.65 | 0.75 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Bismuth 214 | 0.94 | | | pCi/g | 17-Jun-05 | 0.25 | 0.19 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Cobalt 57 | 0.018 U | | | pCi/g | 17-Jun-05 | 0.033 | 0.059 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Cobalt 60 | -0.004 U | | | pCi/g | 17-Jun-05 | 0.051 | 0.098 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lead 210 | 1.1 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lead 211 ^g | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lead 212 | 1.56 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lead 214 | 0.78 | | | pCi/g | 17-Jun-05 | 0.2 | 0.18 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Polonium 210 ^h | 1.1 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Polonium 212 ⁱ | 0.36 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.48 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Polonium 214 ^j | 0.94 | | | pCi/g | 17-Jun-05 | 0.25 | 0.19 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Polonium 215 ^k | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Polonium 216 ^l | 1.56 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| HD3CD1C6 | Soil | BRC-BKG-11A-0-0.5 | Polonium 218 ^m | 1.16 | J | n | pCi/g | 17-Jun-05 | 0.16 | 0.211 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Potassium 40 | 22.6 | | | pCi/g | 17-Jun-05 | 3.5 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Protactinium 234 | -0.11 U | | | pCi/g | 17-Jun-05 | 0.18 | 0.26 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Radium 223 ⁿ | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Radium 224 ^o | 1.56 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| HD3CD1C6 | Soil | BRC-BKG-11A-0-0.5 | Radium 226 | 1.16 | J | n | pCi/g | 17-Jun-05 | 0.16 | 0.211 |
| HD3CD1C7 | Soil | BRC-BKG-11A-0-0.5 | Radium 228 | 3.2 | R | e | pCi/g | 17-Jun-05 | 0.35 | 0.821 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thallium 207 ^p | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thallium 208 | 0.59 | | | pCi/g | 17-Jun-05 | 0.14 | 0.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 227 | 0.26 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 228 | 1.92 | | | pCi/g | 17-Jun-05 | 0.38 | 0.16 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 230 | 1.06 | | | pCi/g | 17-Jun-05 | 0.26 | 0.11 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 231 | 0.13 J | U | b | pCi/g | 17-Jun-05 | 0.1 | 0.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 232 | 1.7 | | | pCi/g | 17-Jun-05 | 0.34 | 0.06 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thorium 234 | 1.27 | | | pCi/g | 17-Jun-05 | 0.48 | 1.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Uranium 233/234 | 0.98 J | U | b | pCi/g | 17-Jun-05 | 0.24 | 0.11 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Uranium 235 | 0.13 J | J | k | pCi/g | 17-Jun-05 | 0.1 | 0.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Uranium 238 | 1.15 | | | pCi/g | 17-Jun-05 | 0.27 | 0.1 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Moisture (%) | 0.88 | | | percent | 17-Jun-05 | | |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Aluminum | 8220 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Antimony | 0.4 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Arsenic | 4.2 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Barium | 185 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Beryllium | 0.85 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Boron | 4.9 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Calcium | 19800 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Chromium | 14.5 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Cobalt | 9.4 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Copper | 19.5 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Iron | 16300 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lead | 19.1 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Lithium | 11.9 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Magnesium | 10300 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Manganese | 747 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Molybdenum | 0.77 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Nickel | 17.8 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Palladium | 0.34 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Phosphorus | 1530 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Potassium | 1830 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Selenium | 0.26 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Silicon | 1040 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Sodium | 151 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Strontium | 149 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Thallium | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Tin | 0.61 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Titanium | 572 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Tungsten | 0.9 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Uranium | 0.79 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Vanadium | 43.9 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Zinc | 60.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233004 | Soil | BRC-BKG-11A-0-0.5 | Zirconium | 119 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Chloride | 33.1 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Nitrate | 1.6 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Sulfate | 45 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | CEC | 12.5 | | | meq/100g | 17-Jun-05 | | |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Actinium 227 ^d | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Actinium 228 | 2.04 | | | pCi/g | 17-Jun-05 | 0.67 | 0.32 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Bismuth 210 ^e | 0.33 U | | | pCi/g | 17-Jun-05 | 0.97 | 1.8 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Bismuth 211 ^f | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Bismuth 212 | 0.79 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.96 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Bismuth 214 | 0.88 | | | pCi/g | 17-Jun-05 | 0.21 | 0.13 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Cobalt 57 | 0.009 U | | | pCi/g | 17-Jun-05 | 0.026 | 0.046 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Cobalt 60 | -0.055 U | | | pCi/g | 17-Jun-05 | 0.052 | 0.08 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lead 210 | 0.33 U | | | pCi/g | 17-Jun-05 | 0.97 | 1.8 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lead 211 ^g | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lead 212 | 1.26 | | | pCi/g | 17-Jun-05 | 0.23 | 0.17 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lead 214 | 0.93 | | | pCi/g | 17-Jun-05 | 0.19 | 0.15 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Polonium 210 ^h | 0.33 U | | | pCi/g | 17-Jun-05 | 0.97 | 1.8 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Polonium 212 ⁱ | 0.5 U | | | pCi/g | 17-Jun-05 | 0.3 | 0.62 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Polonium 214 ^j | 0.88 | | | pCi/g | 17-Jun-05 | 0.2 | 0.13 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Polonium 215 ^k | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Polonium 216 ^l | 1.26 | | | pCi/g | 17-Jun-05 | 0.23 | 0.17 |
| HD3CF1C4 | Soil | BRC-BKG-11A-4-6 | Polonium 218 ^m | 1.24 | | | pCi/g | 17-Jun-05 | 0.17 | 0.12 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Potassium 40 | 20.9 | | | pCi/g | 17-Jun-05 | 3.3 | 0.9 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Protactinium 234 | -0.14 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.22 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Radium 223 ⁿ | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Radium 224 ^o | 1.26 | | | pCi/g | 17-Jun-05 | 0.23 | 0.17 |
| HD3CF1C4 | Soil | BRC-BKG-11A-4-6 | Radium 226 | 1.24 | | | pCi/g | 17-Jun-05 | 0.17 | 0.12 |
| HD3CF1C5 | Soil | BRC-BKG-11A-4-6 | Radium 228 | 2.12 | R | e | pCi/g | 17-Jun-05 | 0.29 | 0.86 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thallium 207 ^p | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thallium 208 | 0.57 | | | pCi/g | 17-Jun-05 | 0.13 | 0.07 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 227 | -0.07 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.67 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 228 | 1.31 | | | pCi/g | 17-Jun-05 | 0.28 | 0.13 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 230 | 0.8 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.06 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 231 | 0.027 U | | | pCi/g | 17-Jun-05 | 0.045 | 0.064 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 232 | 1.36 | | | pCi/g | 17-Jun-05 | 0.27 | 0.05 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thorium 234 | 1.24 | | | pCi/g | 17-Jun-05 | 0.59 | 1 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Uranium 233/234 | 1.05 | U | b | pCi/g | 17-Jun-05 | 0.25 | 0.08 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Uranium 235 | 0.027 U | | | pCi/g | 17-Jun-05 | 0.045 | 0.064 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Uranium 238 | 1.02 | | | pCi/g | 17-Jun-05 | 0.24 | 0.03 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Moisture (%) | 5.1 | | | percent | 17-Jun-05 | | |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Aluminum | 6520 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Arsenic | 4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Barium | 138 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Beryllium | 0.77 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Boron | 4.1 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Calcium | 64400 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Chromium | 8.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Cobalt | 7.7 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Copper | 13.3 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Iron | 11400 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lead | 5.7 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Lithium | 13.5 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Magnesium | 9410 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Manganese | 302 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Molybdenum | 0.41 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Nickel | 13.7 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Palladium | 0.52 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Phosphorus | 1200 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Potassium | 982 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Selenium | 0.29 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Silicon | 744 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Sodium | 914 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Strontium | 225 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Tin | 0.39 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Titanium | 446 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Tungsten | 0.65 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Uranium | 1 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Vanadium | 33.5 | | | mg/kg | 17-Jun-05 | | 0.5535 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Zinc | 28.5 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233005 | Soil | BRC-BKG-11A-4-6 | Zirconium | 127 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Chloride | 6.2 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Nitrate | 0.67 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Sulfate | 86.6 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | CEC | 14.8 | | | meq/100g | 17-Jun-05 | | |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | pH (solid) | 8.2 | J | h | none | 17-Jun-05 | | |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Actinium 227 ^d | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Actinium 228 | 1.32 | | | pCi/g | 17-Jun-05 | 0.61 | 0.4 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Bismuth 211 ^f | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Bismuth 212 | 0.65 U | | | pCi/g | 17-Jun-05 | 0.55 | 1.1 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Bismuth 214 | 1.46 | | | pCi/g | 17-Jun-05 | 0.27 | 0.17 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Cobalt 57 | 0.007 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.055 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Cobalt 60 | -0.025 U | | | pCi/g | 17-Jun-05 | 0.061 | 0.11 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lead 210 | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lead 211 ^g | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lead 212 | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lead 214 | 1.54 | | | pCi/g | 17-Jun-05 | 0.27 | 0.15 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Polonium 212 ⁱ | 0.42 U | | | pCi/g | 17-Jun-05 | 0.35 | 0.69 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Polonium 214 ^j | 1.46 | | | pCi/g | 17-Jun-05 | 0.27 | 0.17 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Polonium 215 ^k | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Polonium 216 ^l | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Potassium 40 | 18.4 | | | pCi/g | 17-Jun-05 | 3.1 | 1 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Protactinium 234 | 0.01 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.29 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Radium 223 ⁿ | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Radium 224 ^o | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| HD3CH1C5 | Soil | BRC-BKG-11A-9-11 | Radium 228 | 2.21 | R | e | pCi/g | 17-Jun-05 | 0.28 | 0.644 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thallium 207 ^p | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thallium 208 | 0.53 | | | pCi/g | 17-Jun-05 | 0.13 | 0.09 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 227 | 0.03 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 228 | 1.6 | | | pCi/g | 17-Jun-05 | 0.33 | 0.15 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 230 | 3.01 | | | pCi/g | 17-Jun-05 | 0.47 | 0.08 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 231 | 0.1 U | | | pCi/g | 17-Jun-05 | 0.093 | 0.1 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 232 | 1.34 | | | pCi/g | 17-Jun-05 | 0.29 | 0.07 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thorium 234 | 1.59 | | | pCi/g | 17-Jun-05 | 0.51 | 0.95 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Uranium 233/234 | 2.66 | | | pCi/g | 17-Jun-05 | 0.46 | 0.13 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Uranium 235 | 0.1 U | | | pCi/g | 17-Jun-05 | 0.093 | 0.1 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Uranium 238 | 2.02 | | | pCi/g | 17-Jun-05 | 0.38 | 0.09 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Moisture (%) | 5.2 | | | percent | 17-Jun-05 | | |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Aluminum | 8470 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Antimony | 0.41 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Arsenic | 6 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Barium | 166 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Beryllium | 0.81 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Boron | 10.2 | J+ | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Calcium | 50600 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Chromium | 10.3 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Cobalt | 7.9 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Copper | 17 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Iron | 12700 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lead | 6.3 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Lithium | 26.5 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Magnesium | 16600 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Manganese | 343 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Molybdenum | 0.54 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Nickel | 16.6 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Palladium | 1 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Phosphorus | 1070 | | | mg/kg | 17-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Potassium | 1170 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Silicon | 703 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Sodium | 937 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Strontium | 461 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Thallium | 0.38 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Tin | 0.44 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Titanium | 504 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Tungsten | 0.94 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Uranium | 2.7 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Vanadium | 48.6 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Zinc | 30.8 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233006 | Soil | BRC-BKG-11A-9-11 | Zirconium | 112 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Chloride | 0.79 B J | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Nitrate | 0.45 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Sulfate | 1.2 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | CEC | 12 | | | meq/100g | 17-Jun-05 | | |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | pH (solid) | 8.9 | J | h | none | 17-Jun-05 | | |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Actinium 227 ^d | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Actinium 228 | 1.64 | | | pCi/g | 17-Jun-05 | 0.6 | 0.38 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.3 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Bismuth 211 ^f | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Bismuth 212 | 0.85 | | | pCi/g | 17-Jun-05 | 0.6 | 0.78 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Bismuth 214 | 0.92 | | | pCi/g | 17-Jun-05 | 0.23 | 0.41 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Cobalt 57 | -0.031 U | | | pCi/g | 17-Jun-05 | 0.033 | 0.053 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Cobalt 60 | -0.041 U | | | pCi/g | 17-Jun-05 | 0.053 | 0.086 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lead 210 | 0.6 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.3 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lead 211 ^g | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lead 212 | 1.49 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lead 214 | 0.78 | | | pCi/g | 17-Jun-05 | 0.21 | 0.15 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Polonium 210 ^h | 0.6 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.3 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Polonium 212 ⁱ | 0.54 | | | pCi/g | 17-Jun-05 | 0.39 | 0.5 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Polonium 214 ^j | 0.92 | | | pCi/g | 17-Jun-05 | 0.23 | 0.18 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Polonium 215 ^k | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Polonium 216 ^l | 1.49 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| HD3K01C4 | Soil | BRC-BKG-11B-0-0.5 | Polonium 218 ^m | 1.13 | | | pCi/g | 17-Jun-05 | 0.14 | 0.113 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Potassium 40 | 23.7 | | | pCi/g | 17-Jun-05 | 3.6 | 1.1 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Protactinium 234 | -0.08 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.26 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Radium 223 ⁿ | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Radium 224 ^o | 1.49 | | | pCi/g | 17-Jun-05 | 0.26 | 0.17 |
| HD3K01C4 | Soil | BRC-BKG-11B-0-0.5 | Radium 226 | 1.13 | | | pCi/g | 17-Jun-05 | 0.14 | 0.113 |
| HD3K01C5 | Soil | BRC-BKG-11B-0-0.5 | Radium 228 | 2.51 | R | e | pCi/g | 17-Jun-05 | 0.29 | 0.75 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thallium 207 ^p | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thallium 208 | 0.51 | | | pCi/g | 17-Jun-05 | 0.13 | 0.1 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 227 | -0.15 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.72 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 228 | 1.62 | | | pCi/g | 17-Jun-05 | 0.29 | 0.07 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 230 | 1.35 | | | pCi/g | 17-Jun-05 | 0.26 | 0.03 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 231 | 0.088 U | | | pCi/g | 17-Jun-05 | 0.082 | 0.089 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 232 | 1.72 | | | pCi/g | 17-Jun-05 | 0.3 | 0.03 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thorium 234 | 0.97 U | | | pCi/g | 17-Jun-05 | 0.7 | 1.2 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Uranium 233/234 | 0.78 J | U | b | pCi/g | 17-Jun-05 | 0.21 | 0.12 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Uranium 235 | 0.088 U | | | pCi/g | 17-Jun-05 | 0.082 | 0.089 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Uranium 238 | 1.06 | | | pCi/g | 17-Jun-05 | 0.25 | 0.08 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Moisture (%) | 0.89 | | | percent | 17-Jun-05 | | |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Aluminum | 7220 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Antimony | 0.22 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Arsenic | 3.5 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Barium | 202 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Beryllium | 0.8 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Boron | 3.7 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Calcium | 16700 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Chromium | 13.3 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Cobalt | 9.3 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Copper | 17.2 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Iron | 15100 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lead | 16.4 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Lithium | 10.9 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Magnesium | 8600 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Manganese | 678 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Mercury | 0.017 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Molybdenum | 0.62 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Nickel | 15.6 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Palladium | 0.29 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Phosphorus | 1610 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Potassium | 1710 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Silicon | 1060 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Sodium | 170 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Strontium | 133 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Tin | 0.51 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Titanium | 618 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Tungsten | 0.97 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Uranium | 0.71 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Vanadium | 46.8 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Zinc | 44.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233031 | Soil | BRC-BKG-11B-0-0.5 | Zirconium | 118 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Chloride | 3.9 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Nitrate | 0.69 | J | h | mg/kg | 17-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---------|----------|-------------|------------------------|-------|
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Sulfate | 4.4 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | CEC | 12 | | | meq/100g | 17-Jun-05 | | |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | pH (solid) | 8.6 | J | h | none | 17-Jun-05 | | |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Actinium 227 ^d | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Actinium 228 | 2.01 | | | pCi/g | 17-Jun-05 | 0.67 | 0.4 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Bismuth 210 ^e | -0.2 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Bismuth 211 ^f | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Bismuth 212 | 0.88 U | | | pCi/g | 17-Jun-05 | 0.55 | 1.1 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Bismuth 214 | 1.05 | | | pCi/g | 17-Jun-05 | 0.24 | 0.4 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Cobalt 57 | 0.011 U | | | pCi/g | 17-Jun-05 | 0.029 | 0.051 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Cobalt 60 | 0.026 U | | | pCi/g | 17-Jun-05 | 0.057 | 0.11 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lead 210 | -0.2 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lead 211 ^g | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lead 212 | 1.75 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lead 214 | 0.97 | | | pCi/g | 17-Jun-05 | 0.2 | 0.16 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Polonium 210 ^h | -0.2 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Polonium 212 ⁱ | 0.56 U | | | pCi/g | 17-Jun-05 | 0.35 | 0.69 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Polonium 214 ^j | 1.05 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Polonium 215 ^k | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Polonium 216 ^l | 1.75 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| HD3K11C4 | Soil | BRC-BKG-11B-4-6 | Polonium 218 ^m | 1.13 | | | pCi/g | 17-Jun-05 | 0.14 | 0.114 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Potassium 40 | 23.2 | | | pCi/g | 17-Jun-05 | 3.6 | 0.9 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Protactinium 234 | 0.03 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.26 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Radium 223 ⁿ | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Radium 224 ^o | 1.75 | | | pCi/g | 17-Jun-05 | 0.26 | 0.13 |
| HD3K11C4 | Soil | BRC-BKG-11B-4-6 | Radium 226 | 1.13 | | | pCi/g | 17-Jun-05 | 0.14 | 0.114 |
| HD3K11C5 | Soil | BRC-BKG-11B-4-6 | Radium 228 | 2 J | U | k, e, b | pCi/g | 17-Jun-05 | 0.26 | 0.766 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thallium 207 ^p | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thallium 208 | 0.61 | | | pCi/g | 17-Jun-05 | 0.14 | 0.09 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 227 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.75 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 228 | 1.73 | | | pCi/g | 17-Jun-05 | 0.32 | 0.07 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 230 | 1.12 | | | pCi/g | 17-Jun-05 | 0.25 | 0.03 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 231 | 0.09 U | | | pCi/g | 17-Jun-05 | 0.084 | 0.091 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 232 | 1.74 | | | pCi/g | 17-Jun-05 | 0.32 | 0.03 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thorium 234 | 1 U | | | pCi/g | 17-Jun-05 | 0.64 | 1.1 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Uranium 233/234 | 1.45 | | | pCi/g | 17-Jun-05 | 0.3 | 0.07 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Uranium 235 | 0.09 U | | | pCi/g | 17-Jun-05 | 0.084 | 0.091 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Uranium 238 | 1.27 | | | pCi/g | 17-Jun-05 | 0.28 | 0.07 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Moisture (%) | 5 | | | percent | 17-Jun-05 | | |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Aluminum | 6950 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Antimony | 0.15 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Arsenic | 3.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Barium | 130 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Beryllium | 0.76 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Calcium | 35100 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Chromium | 9.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Cobalt | 8 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Copper | 15.4 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Iron | 12400 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lead | 6.9 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Lithium | 13.2 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Magnesium | 9360 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Manganese | 312 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Mercury | 0.017 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Molybdenum | 0.49 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Nickel | 15.5 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Niobium | 1.8 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Palladium | 0.4 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Phosphorus | 1170 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Potassium | 1050 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Silicon | 462 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Sodium | 436 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Strontium | 178 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Tin | 0.42 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Titanium | 492 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Tungsten | 2 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Uranium | 0.82 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Vanadium | 38 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Zinc | 34.1 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233032 | Soil | BRC-BKG-11B-4-6 | Zirconium | 116 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Chloride | 27.4 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Nitrate | 0.49 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Sulfate | 62.6 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | CEC | 8.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | pH (solid) | 8.2 | J | h | none | 17-Jun-05 | | |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Actinium 227 ^d | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Actinium 228 | 1.56 | | | pCi/g | 17-Jun-05 | 0.56 | 0.36 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Bismuth 211 ^f | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Bismuth 212 | 0.62 U | | | pCi/g | 17-Jun-05 | 0.6 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Bismuth 214 | 1.44 | | | pCi/g | 17-Jun-05 | 0.29 | 0.17 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Cobalt 57 | 0.018 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.054 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Cobalt 60 | 0.013 U | | | pCi/g | 17-Jun-05 | 0.048 | 0.099 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lead 210 | 0.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lead 211 ^g | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lead 212 | 1.45 | | | pCi/g | 17-Jun-05 | 0.22 | 0.12 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lead 214 | 1.24 | | | pCi/g | 17-Jun-05 | 0.25 | 0.15 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---------|---------|-------------|------------------------|--------|
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Polonium 212 ⁱ | 0.39 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.44 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Polonium 214 ^j | 1.44 | | | pCi/g | 17-Jun-05 | 0.28 | 0.17 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Polonium 215 ^k | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Polonium 216 ^l | 1.45 | | | pCi/g | 17-Jun-05 | 0.22 | 0.12 |
| HD3K31C6 | Soil | BRC-BKG-11B-9-11 | Polonium 218 ^m | 1.96 | J | n | pCi/g | 17-Jun-05 | 0.21 | 0.101 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Potassium 40 | 19.6 | | | pCi/g | 17-Jun-05 | 3 | 0.7 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Protactinium 234 | -0.09 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.23 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Radium 223 ⁿ | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Radium 224 ^o | 1.45 | | | pCi/g | 17-Jun-05 | 0.22 | 0.12 |
| HD3K31C6 | Soil | BRC-BKG-11B-9-11 | Radium 226 | 1.96 | J | n | pCi/g | 17-Jun-05 | 0.21 | 0.101 |
| HD3K31C7 | Soil | BRC-BKG-11B-9-11 | Radium 228 | 1.55 J | U | k, e, b | pCi/g | 17-Jun-05 | 0.24 | 0.752 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thallium 207 ^p | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thallium 208 | 0.43 | | | pCi/g | 17-Jun-05 | 0.13 | 0.09 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 227 | -0.04 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.69 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 228 | 1.45 | | | pCi/g | 17-Jun-05 | 0.28 | 0.07 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 230 | 2.25 | | | pCi/g | 17-Jun-05 | 0.36 | 0.04 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 231 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.082 | 0.11 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 232 | 1.47 | | | pCi/g | 17-Jun-05 | 0.28 | 0.04 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thorium 234 | 1.6 | | | pCi/g | 17-Jun-05 | 0.5 | 0.86 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Uranium 233/234 | 2.84 | | | pCi/g | 17-Jun-05 | 0.48 | 0.12 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Uranium 235 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.082 | 0.11 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Uranium 238 | 2.28 | | | pCi/g | 17-Jun-05 | 0.41 | 0.09 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Moisture (%) | 4.1 | | | percent | 17-Jun-05 | | |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Aluminum | 6720 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Antimony | N U | | | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Arsenic | 5 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Barium | 175 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Beryllium | 0.64 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Boron | 5.8 | J+ | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Calcium | 70200 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Chromium | 7.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Cobalt | 9.2 | | | mg/kg | 17-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Copper | 14.5 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Iron | 8790 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lead | 4.9 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Lithium | 18.3 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Magnesium | 13000 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Manganese | 449 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Mercury | 0.014 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Molybdenum | 0.74 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Nickel | 13.6 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Niobium | 1.3 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Palladium | 0.84 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Phosphorus | 1030 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Potassium | 866 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Silicon | 435 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Sodium | 773 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Strontium | 408 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Tin | 0.32 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Titanium | 416 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Tungsten | 1.3 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Uranium | 1.7 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Vanadium | 35.6 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Zinc | 22.8 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233033 | Soil | BRC-BKG-11B-9-11 | Zirconium | 86.1 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Chloride | 1.3 B J | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Nitrate | 0.57 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Sulfate | 1.4 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | CEC | 10 | | | meq/100g | 17-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|-------|-------------|------------------------|-------|
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | pH (solid) | 8.8 | J | h | none | 17-Jun-05 | | |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Actinium 227 ^d | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Actinium 228 | 2.13 | | | pCi/g | 17-Jun-05 | 0.72 | 0.38 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Bismuth 211 ^f | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Bismuth 212 | 0.91 | | | pCi/g | 17-Jun-05 | 0.65 | 0.73 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Bismuth 214 | 0.83 | | | pCi/g | 17-Jun-05 | 0.24 | 0.21 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Cobalt 57 | -0.005 U | | | pCi/g | 17-Jun-05 | 0.029 | 0.05 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Cobalt 60 | 0.012 U | | | pCi/g | 17-Jun-05 | 0.046 | 0.097 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lead 210 | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lead 211 ^g | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lead 212 | 1.44 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lead 214 | 1 | | | pCi/g | 17-Jun-05 | 0.22 | 0.15 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Polonium 210 ^h | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Polonium 212 ⁱ | 0.58 | | | pCi/g | 17-Jun-05 | 0.42 | 0.47 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Polonium 214 ^j | 0.83 | | | pCi/g | 17-Jun-05 | 0.23 | 0.21 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Polonium 215 ^k | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Polonium 216 ^l | 1.44 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| HD3KL1GK | Soil | BRC-BKG-11C-0-0.5 | Polonium 218 ^m | 0.999 J | U | k, b | pCi/g | 17-Jun-05 | 0.15 | 0.143 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Potassium 40 | 23.9 | | | pCi/g | 17-Jun-05 | 3.5 | 0.7 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Protactinium 234 | -0.17 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.25 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Radium 223 ⁿ | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Radium 224 ^o | 1.44 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| HD3KL1GK | Soil | BRC-BKG-11C-0-0.5 | Radium 226 | 0.999 J | U | k, b | pCi/g | 17-Jun-05 | 0.15 | 0.143 |
| HD3KL1GL | Soil | BRC-BKG-11C-0-0.5 | Radium 228 | 1.34 J | U | k, b | pCi/g | 17-Jun-05 | 0.18 | 0.44 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thallium 207 ^p | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thallium 208 | 0.51 | | | pCi/g | 17-Jun-05 | 0.13 | 0.09 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 227 | 0.03 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.8 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 228 | 1.72 | | | pCi/g | 17-Jun-05 | 0.3 | 0.05 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 230 | 1.19 | | | pCi/g | 17-Jun-05 | 0.24 | 0.04 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 231 | 0.06 J | U | b | pCi/g | 17-Jun-05 | 0.067 | 0.041 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 232 | 1.51 | | | pCi/g | 17-Jun-05 | 0.28 | 0.04 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thorium 234 | 0.78 U | | | pCi/g | 17-Jun-05 | 0.7 | 1.2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Uranium 233/234 | 1.09 | U | b | pCi/g | 17-Jun-05 | 0.25 | 0.07 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Uranium 235 | 0.06 J | J | k | pCi/g | 17-Jun-05 | 0.067 | 0.041 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Uranium 238 | 1.03 | | | pCi/g | 17-Jun-05 | 0.24 | 0.05 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Moisture (%) | 0.78 | | | percent | 17-Jun-05 | | |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Aluminum | 6850 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Antimony | 0.15 BN | J | g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Arsenic | 3.9 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Barium | 152 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Beryllium | 0.73 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Calcium | 20900 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Chromium | 10.7 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Cobalt | 7.4 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Copper | 14.8 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Iron | 12800 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lead | 13.7 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Lithium | 10.4 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Magnesium | 8840 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Manganese | 455 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Mercury | 0.034 | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Molybdenum | 0.46 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Nickel | 13.8 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Palladium | 0.27 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Phosphorus | 1470 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Potassium | 1620 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Silicon | 686 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Sodium | 153 | | | mg/kg | 17-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Strontium | 126 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Thallium | 0.25 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Tin | 0.41 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Titanium | 459 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Tungsten | 0.93 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Uranium | 1.8 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Vanadium | 32.5 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Zinc | 41.9 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233028 | Soil | BRC-BKG-11C-0-0.5 | Zirconium | 109 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Chloride | 21.2 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Nitrate | 2.4 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Sulfate | 84.4 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | CEC | 12.1 | | | meq/100g | 17-Jun-05 | | |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | pH (solid) | 8.3 | J | h | none | 17-Jun-05 | | |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Actinium 227 ^d | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Actinium 228 | 2.03 | | | pCi/g | 17-Jun-05 | 0.68 | 0.37 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Bismuth 210 ^e | 0.5 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Bismuth 211 ^f | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Bismuth 212 | 0.63 U | | | pCi/g | 17-Jun-05 | 0.53 | 1.1 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Bismuth 214 | 1.06 | | | pCi/g | 17-Jun-05 | 0.25 | 0.43 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Cobalt 57 | -0.014 U | | | pCi/g | 17-Jun-05 | 0.032 | 0.055 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Cobalt 60 | -0.028 U | | | pCi/g | 17-Jun-05 | 0.055 | 0.098 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lead 210 | 0.5 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lead 211 ^g | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lead 212 | 1.65 | | | pCi/g | 17-Jun-05 | 0.25 | 0.13 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lead 214 | 1.1 | | | pCi/g | 17-Jun-05 | 0.26 | 0.18 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Polonium 210 ^h | 0.5 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Polonium 212 ⁱ | 0.4 U | | | pCi/g | 17-Jun-05 | 0.34 | 0.68 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Polonium 214 ^j | 1.06 | | | pCi/g | 17-Jun-05 | 0.25 | 0.18 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Polonium 215 ^k | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Polonium 216 ^l | 1.65 | | | pCi/g | 17-Jun-05 | 0.25 | 0.13 |
| HD3KV1C4 | Soil | BRC-BKG-11C-4-6 | Polonium 218 ^m | 1.06 | | | pCi/g | 17-Jun-05 | 0.14 | 0.164 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Potassium 40 | 22.6 | | | pCi/g | 17-Jun-05 | 3.4 | 0.8 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Protactinium 234 | -0.17 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.27 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Radium 223 ⁿ | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Radium 224 ^o | 1.65 | | | pCi/g | 17-Jun-05 | 0.25 | 0.13 |
| HD3KV1C4 | Soil | BRC-BKG-11C-4-6 | Radium 226 | 1.06 | | | pCi/g | 17-Jun-05 | 0.14 | 0.164 |
| HD3KV1C5 | Soil | BRC-BKG-11C-4-6 | Radium 228 | 2.37 | R | e | pCi/g | 17-Jun-05 | 0.31 | 0.911 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thallium 207 ^p | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thallium 208 | 0.57 | | | pCi/g | 17-Jun-05 | 0.14 | 0.09 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 227 | -0.2 U | | | pCi/g | 17-Jun-05 | 0.51 | 0.85 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 228 | 1.65 | | | pCi/g | 17-Jun-05 | 0.31 | 0.06 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 230 | 1.39 | | | pCi/g | 17-Jun-05 | 0.28 | 0.03 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 231 | 0.058 J | U | b | pCi/g | 17-Jun-05 | 0.065 | 0.039 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 232 | 1.6 | | | pCi/g | 17-Jun-05 | 0.31 | 0.05 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thorium 234 | 0.92 U | | | pCi/g | 17-Jun-05 | 0.72 | 1.3 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Uranium 233/234 | 1.2 | J+ | b | pCi/g | 17-Jun-05 | 0.26 | 0.06 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Uranium 235 | 0.058 J | J | k | pCi/g | 17-Jun-05 | 0.065 | 0.039 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Uranium 238 | 0.95 J | J | k | pCi/g | 17-Jun-05 | 0.23 | 0.06 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Moisture (%) | 5.5 | | | percent | 17-Jun-05 | | |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Aluminum | 6920 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Antimony | N U | | | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Arsenic | 4.2 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Barium | 143 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Beryllium | 0.76 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Boron | 7.3 | J+ | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Calcium | 42500 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Chromium | 9.1 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Cobalt | 7.3 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Copper | 15.2 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Iron | 11400 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lead | 6.4 | | | mg/kg | 17-Jun-05 | | 0.0506 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Lithium | 15.9 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Magnesium | 11800 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Manganese | 288 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Mercury | 0.012 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Molybdenum | 0.44 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Nickel | 15.3 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Niobium | 1.4 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Palladium | 0.44 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Phosphorus | 1190 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Potassium | 1030 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Silicon | 428 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Sodium | 682 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Strontium | 211 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Tin | 0.4 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Titanium | 461 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Tungsten | 0.75 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Uranium | 1.1 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Vanadium | 36.4 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Zinc | 31.1 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233029 | Soil | BRC-BKG-11C-4-6 | Zirconium | 117 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Chloride | 42.4 J | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Fluoride | 0.24 B | U | b | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Nitrate | 0.64 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Sulfate | 139 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | CEC | 9.1 | | | meq/100g | 17-Jun-05 | | |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | pH (solid) | 8.2 | J | h | none | 17-Jun-05 | | |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Actinium 227 ^d | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---------|-------|-------------|------------------------|-------|
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Actinium 228 | 1.4 | | | pCi/g | 17-Jun-05 | 0.59 | 0.39 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Bismuth 210 ^e | 1.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Bismuth 211 ^f | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Bismuth 212 | 0.83 | | | pCi/g | 17-Jun-05 | 0.55 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Bismuth 214 | 1.62 | | | pCi/g | 17-Jun-05 | 0.3 | 0.15 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Cobalt 57 | 0.019 U | | | pCi/g | 17-Jun-05 | 0.029 | 0.052 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Cobalt 60 | 0.004 U | | | pCi/g | 17-Jun-05 | 0.06 | 0.12 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lead 210 | 1.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lead 211 ^g | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lead 212 | 1.51 | | | pCi/g | 17-Jun-05 | 0.23 | 0.12 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lead 214 | 1.48 | | | pCi/g | 17-Jun-05 | 0.26 | 0.15 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Polonium 210 ^h | 1.7 U | | | pCi/g | 17-Jun-05 | 1.1 | 2.1 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Polonium 212 ⁱ | 0.53 | | | pCi/g | 17-Jun-05 | 0.35 | 0.45 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Polonium 214 ^j | 1.62 | | | pCi/g | 17-Jun-05 | 0.3 | 0.15 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Polonium 215 ^k | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Polonium 216 ^l | 1.51 | | | pCi/g | 17-Jun-05 | 0.23 | 0.12 |
| HD3KW1C4 | Soil | BRC-BKG-11C-9-11 | Polonium 218 ^m | 1.87 | | | pCi/g | 17-Jun-05 | 0.22 | 0.105 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Potassium 40 | 21 | | | pCi/g | 17-Jun-05 | 3.2 | 0.9 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Protactinium 234 | -0.11 U | | | pCi/g | 17-Jun-05 | 0.15 | 0.25 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Radium 223 ⁿ | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Radium 224 ^o | 1.51 | | | pCi/g | 17-Jun-05 | 0.23 | 0.12 |
| HD3KW1C4 | Soil | BRC-BKG-11C-9-11 | Radium 226 | 1.87 | | | pCi/g | 17-Jun-05 | 0.22 | 0.105 |
| HD3KW1C5 | Soil | BRC-BKG-11C-9-11 | Radium 228 | 1.68 J | U | k, e, b | pCi/g | 17-Jun-05 | 0.23 | 0.69 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thallium 207 ^p | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thallium 208 | 0.41 | | | pCi/g | 17-Jun-05 | 0.12 | 0.09 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 227 | -0.06 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 228 | 1.28 | | | pCi/g | 17-Jun-05 | 0.25 | 0.07 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 230 | 2.32 | | | pCi/g | 17-Jun-05 | 0.36 | 0.04 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 231 | 0.18 J | J+ | b | pCi/g | 17-Jun-05 | 0.11 | 0.1 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 232 | 1.25 | | | pCi/g | 17-Jun-05 | 0.24 | 0.03 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thorium 234 | 1.8 | | | pCi/g | 17-Jun-05 | 0.53 | 0.92 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Uranium 233/234 | 2.73 | | | pCi/g | 17-Jun-05 | 0.44 | 0.11 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Uranium 235 | 0.18 J | J | k | pCi/g | 17-Jun-05 | 0.11 | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|--------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Uranium 238 | 2.21 | | | pCi/g | 17-Jun-05 | 0.38 | 0.07 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Moisture (%) | 3.6 | | | percent | 17-Jun-05 | | |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Aluminum | 6730 N | | | mg/kg | 17-Jun-05 | | 2 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Antimony | N U | | | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Arsenic | 6.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Barium | 88.9 N | | | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Beryllium | 0.72 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Boron | 8.5 | J+ | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Calcium | 49900 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Chromium | 9.1 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Cobalt | 7.6 | | | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Copper | 13.8 | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Iron | 10400 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lead | 5.7 | | | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Lithium | 22.3 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Magnesium | 14000 | | | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Manganese | 287 N* | J | d | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Mercury | 0.011 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Molybdenum | 0.45 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Nickel | 13.8 | | | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Palladium | 0.75 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Phosphorus | 1090 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Potassium | 966 | | | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Silicon | 551 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Sodium | 802 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Strontium | 342 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Thallium | U | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Tin | 0.34 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Titanium | 402 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Tungsten | 0.87 BE | UJ | b, j | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Uranium | 2.3 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Vanadium | 40.3 E | J | j | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Zinc | 29.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233030 | Soil | BRC-BKG-11C-9-11 | Zirconium | 103 E | J | j | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Chloride | 0.93 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Nitrate | 0.51 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Sulfate | 3.4 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | CEC | 7.3 | | | meq/100g | 17-Jun-05 | | |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Actinium 227 ^d | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Actinium 228 | 1.42 | | | pCi/g | 17-Jun-05 | 0.54 | 0.35 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Bismuth 211 ^f | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Bismuth 212 | 0.93 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.98 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Bismuth 214 | 0.8 | | | pCi/g | 17-Jun-05 | 0.23 | 0.18 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Cobalt 57 | -0.004 U | | | pCi/g | 17-Jun-05 | 0.027 | 0.046 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Cobalt 60 | 0.014 U | | | pCi/g | 17-Jun-05 | 0.054 | 0.11 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lead 211 ^g | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lead 212 | 1.34 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lead 214 | 0.84 | | | pCi/g | 17-Jun-05 | 0.22 | 0.15 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 17-Jun-05 | 1 | 1.9 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Polonium 212 ⁱ | 0.6 U | | | pCi/g | 17-Jun-05 | 0.3 | 0.63 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Polonium 214 ^j | 0.8 | | | pCi/g | 17-Jun-05 | 0.23 | 0.18 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Polonium 215 ^k | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Polonium 216 ^l | 1.34 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| HD3C31C4 | Soil | BRC-BKG-12A-0-0.5 | Polonium 218 ^m | 0.835 J | J | k | pCi/g | 17-Jun-05 | 0.13 | 0.188 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Potassium 40 | 31 | | | pCi/g | 17-Jun-05 | 4.2 | 0.6 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Protactinium 234 | -0.13 U | | | pCi/g | 17-Jun-05 | 0.14 | 0.23 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Radium 223 ⁿ | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Radium 224 ^o | 1.34 | | | pCi/g | 17-Jun-05 | 0.24 | 0.18 |
| HD3C31C4 | Soil | BRC-BKG-12A-0-0.5 | Radium 226 | 0.835 J | J | k | pCi/g | 17-Jun-05 | 0.13 | 0.188 |
| HD3C31C5 | Soil | BRC-BKG-12A-0-0.5 | Radium 228 | 1.8 J | R | k, e | pCi/g | 17-Jun-05 | 0.24 | 0.6 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thallium 207 ^p | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thallium 208 | 0.5 | | | pCi/g | 17-Jun-05 | 0.12 | 0.08 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 227 | 0.02 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.69 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 228 | 1.62 | | | pCi/g | 17-Jun-05 | 0.36 | 0.2 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 230 | 1.02 | | | pCi/g | 17-Jun-05 | 0.27 | 0.12 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 231 | 0.13 J | U | b | pCi/g | 17-Jun-05 | 0.13 | 0.07 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 232 | 1.26 | | | pCi/g | 17-Jun-05 | 0.29 | 0.09 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thorium 234 | 0.82 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.93 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Uranium 233/234 | 0.71 J | U | b | pCi/g | 17-Jun-05 | 0.27 | 0.14 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Uranium 235 | 0.13 J | J | k | pCi/g | 17-Jun-05 | 0.13 | 0.07 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Uranium 238 | 0.94 J | J | k | pCi/g | 17-Jun-05 | 0.31 | 0.12 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Moisture (%) | 0.5 | | | percent | 17-Jun-05 | | |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Aluminum | 6300 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Antimony | 0.2 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Arsenic | 5.3 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Barium | 604 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Beryllium | 0.61 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Boron | 3.4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Calcium | 16100 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Chromium | 10.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Cobalt | 9.8 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Copper | 18.5 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Iron | 13300 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lead | 21 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Lithium | 14.9 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Magnesium | 6650 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Manganese | 1090 N | | | mg/kg | 17-Jun-05 | | 0.0131 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Mercury | 0.017 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Molybdenum | 1.1 | | | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Nickel | 13.8 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Niobium | 1.1 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Palladium | 0.22 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Phosphorus | 804 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Potassium | 1840 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Selenium | 0.23 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Silicon | 798 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Sodium | 123 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Strontium | 97.3 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Thallium | 1 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Tin | 0.33 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Titanium | 299 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Tungsten | 0.9 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Uranium | 0.51 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Vanadium | 26 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Zinc | 34.6 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233011 | Soil | BRC-BKG-12A-0-0.5 | Zirconium | 66.1 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Chloride | 3.1 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Nitrate | 1 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Sulfate | 7.9 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | CEC | 6.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | pH (solid) | 8.8 | J | h | none | 17-Jun-05 | | |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Actinium 227 ^d | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Actinium 228 | 1.34 | | | pCi/g | 17-Jun-05 | 0.53 | 0.37 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Bismuth 210 ^e | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Bismuth 211 ^f | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|-------|
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Bismuth 212 | 1.16 | | | pCi/g | 17-Jun-05 | 0.54 | 0.69 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Bismuth 214 | 0.71 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Cobalt 57 | -0.036 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.049 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Cobalt 60 | -0.004 U | | | pCi/g | 17-Jun-05 | 0.057 | 0.11 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lead 210 | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lead 211 ^g | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lead 212 | 1.22 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lead 214 | 0.66 | | | pCi/g | 17-Jun-05 | 0.18 | 0.15 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Polonium 210 ^h | 0.6 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.2 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Polonium 212 ⁱ | 0.74 | | | pCi/g | 17-Jun-05 | 0.34 | 0.44 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Polonium 214 ^j | 0.71 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Polonium 215 ^k | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Polonium 216 ^l | 1.22 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| HD3C51C4 | Soil | BRC-BKG-12A-4-6 | Polonium 218 ^m | 0.756 J | U | k, b | pCi/g | 17-Jun-05 | 0.12 | 0.197 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Potassium 40 | 31 | | | pCi/g | 17-Jun-05 | 4.4 | 0.6 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Protactinium 234 | -0.17 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.27 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Radium 223 ⁿ | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Radium 224 ^o | 1.22 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| HD3C51C4 | Soil | BRC-BKG-12A-4-6 | Radium 226 | 0.756 J | U | k, b | pCi/g | 17-Jun-05 | 0.12 | 0.197 |
| HD3C51C5 | Soil | BRC-BKG-12A-4-6 | Radium 228 | 2.14 | | | pCi/g | 17-Jun-05 | 0.26 | 0.716 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thallium 207 ^p | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thallium 208 | 0.51 | | | pCi/g | 17-Jun-05 | 0.12 | 0.09 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 227 | -0.32 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.7 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 228 | 1.28 | | | pCi/g | 17-Jun-05 | 0.29 | 0.15 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 230 | 0.84 J | J | k | pCi/g | 17-Jun-05 | 0.21 | 0.06 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 231 | 0.021 U | | | pCi/g | 17-Jun-05 | 0.059 | 0.057 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 232 | 1.62 | | | pCi/g | 17-Jun-05 | 0.31 | 0.07 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thorium 234 | 0.96 U | | | pCi/g | 17-Jun-05 | 0.69 | 1.2 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Uranium 233/234 | 0.75 J | U | b | pCi/g | 17-Jun-05 | 0.24 | 0.08 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Uranium 235 | 0.021 U | | | pCi/g | 17-Jun-05 | 0.059 | 0.057 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Uranium 238 | 0.82 J | J | k | pCi/g | 17-Jun-05 | 0.25 | 0.08 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Moisture (%) | 3.8 | | | percent | 17-Jun-05 | | |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Aluminum | 4840 NE | J | j | mg/kg | 17-Jun-05 | | 2 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Arsenic | 4.8 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Barium | 346 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Beryllium | 0.46 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Calcium | 13200 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Chromium | 10.2 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Cobalt | 6 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Copper | 17.5 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Iron | 11100 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lead | 9.1 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Lithium | 11.2 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Magnesium | 5100 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Manganese | 394 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Molybdenum | 1.3 | | | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Nickel | 11.3 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Palladium | 0.14 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Phosphorus | 906 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Potassium | 1240 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Silicon | 563 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Sodium | 196 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Strontium | 69 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Thallium | 1.1 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Tin | 0.2 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Titanium | 219 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Tungsten | 0.78 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Uranium | 0.67 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Vanadium | 21.3 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Zinc | 24 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233012 | Soil | BRC-BKG-12A-4-6 | Zirconium | 78.9 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Chloride | 20 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Nitrate | 0.2 B | J | h, g | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Sulfate | 27.6 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | CEC | 6.8 | | | meq/100g | 17-Jun-05 | | |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | pH (solid) | 8.5 | J | h | none | 17-Jun-05 | | |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Actinium 227 ^d | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Actinium 228 | 1.26 | | | pCi/g | 17-Jun-05 | 0.64 | 0.35 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Bismuth 210 ^e | -0.6 U | | | pCi/g | 17-Jun-05 | 1.1 | 1.9 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Bismuth 211 ^f | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Bismuth 212 | 0.58 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.9 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Bismuth 214 | 0.52 | | | pCi/g | 17-Jun-05 | 0.16 | 0.18 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Cobalt 57 | -0.013 U | | | pCi/g | 17-Jun-05 | 0.03 | 0.049 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Cobalt 60 | 0.082 U | | | pCi/g | 17-Jun-05 | 0.06 | 0.13 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lead 210 | -0.6 U | | | pCi/g | 17-Jun-05 | 1.1 | 1.9 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lead 211 ^g | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lead 212 | 1.11 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lead 214 | 0.61 | | | pCi/g | 17-Jun-05 | 0.19 | 0.16 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Polonium 210 ^h | -0.6 U | | | pCi/g | 17-Jun-05 | 1.1 | 1.9 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Polonium 212 ⁱ | 0.37 U | | | pCi/g | 17-Jun-05 | 0.29 | 0.58 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Polonium 214 ^j | 0.52 | | | pCi/g | 17-Jun-05 | 0.16 | 0.18 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Polonium 215 ^k | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Polonium 216 ^l | 1.11 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| HD3C61C4 | Soil | BRC-BKG-12A-9-11 | Polonium 218 ^m | 0.784 J | J | k, n | pCi/g | 17-Jun-05 | 0.14 | 0.174 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Potassium 40 | 31.1 | | | pCi/g | 17-Jun-05 | 4.3 | 0.7 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Protactinium 234 | -0.04 U | | | pCi/g | 17-Jun-05 | 0.14 | 0.25 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Radium 223 ⁿ | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Radium 224 ^o | 1.11 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| HD3C61C4 | Soil | BRC-BKG-12A-9-11 | Radium 226 | 0.784 J | J | k, n | pCi/g | 17-Jun-05 | 0.14 | 0.174 |
| HD3C61C5 | Soil | BRC-BKG-12A-9-11 | Radium 228 | 1.71 J | R | k, e | pCi/g | 17-Jun-05 | 0.25 | 0.666 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thallium 207 ^P | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thallium 208 | 0.39 | | | pCi/g | 17-Jun-05 | 0.12 | 0.08 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 227 | -0.2 U | | | pCi/g | 17-Jun-05 | 0.41 | 0.69 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 228 | 1.23 | | | pCi/g | 17-Jun-05 | 0.27 | 0.14 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 230 | 0.78 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.07 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 231 | 0.053 U | | | pCi/g | 17-Jun-05 | 0.073 | 0.098 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 232 | 1.26 | | | pCi/g | 17-Jun-05 | 0.26 | 0.05 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thorium 234 | 1.3 | | | pCi/g | 17-Jun-05 | 0.62 | 1 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Uranium 233/234 | 0.58 J | U | b | pCi/g | 17-Jun-05 | 0.18 | 0.11 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Uranium 235 | 0.053 U | | | pCi/g | 17-Jun-05 | 0.073 | 0.098 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Uranium 238 | 0.58 J | J | k | pCi/g | 17-Jun-05 | 0.18 | 0.08 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Moisture (%) | 2.9 | | | percent | 17-Jun-05 | | |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Aluminum | 6150 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Antimony | 0.25 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Arsenic | 5.8 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Barium | 836 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Beryllium | 0.56 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Boron | 4.4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Calcium | 30400 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Chromium | 9.6 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Cobalt | 5.4 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Copper | 18.3 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Iron | 11400 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lead | 11.7 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Lithium | 13.2 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Magnesium | 5240 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Manganese | 488 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Mercury | 0.014 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Molybdenum | 0.9 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Nickel | 11.2 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Palladium | 0.4 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Phosphorus | 722 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Potassium | 1380 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Selenium | 0.39 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Silicon | 680 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Sodium | 901 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Strontium | 199 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Thallium | 0.93 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Tin | U | | | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Titanium | 221 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Tungsten | 0.96 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Uranium | 0.73 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Vanadium | 21.7 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Zinc | 23.9 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233013 | Soil | BRC-BKG-12A-9-11 | Zirconium | 69 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Chloride | 1 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Nitrate | U | UJ | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Sulfate | 2.7 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | CEC | 10 | | | meq/100g | 17-Jun-05 | | |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | pH (solid) | 8.4 | J | h | none | 17-Jun-05 | | |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Actinium 227 ^d | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Actinium 228 | 1.47 | | | pCi/g | 17-Jun-05 | 0.57 | 0.35 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Bismuth 210 ^e | 1.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.5 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Bismuth 211 ^f | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Bismuth 212 | 0.71 | | | pCi/g | 17-Jun-05 | 0.59 | 0.68 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Bismuth 214 | 0.7 | | | pCi/g | 17-Jun-05 | 0.24 | 0.39 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Cobalt 57 | 0.012 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.056 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Cobalt 60 | -0.025 U | | | pCi/g | 17-Jun-05 | 0.063 | 0.11 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lead 210 | 1.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.5 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lead 211 ^g | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lead 212 | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.18 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lead 214 | 0.94 | | | pCi/g | 17-Jun-05 | 0.21 | 0.17 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Polonium 210 ^h | 1.5 U | | | pCi/g | 17-Jun-05 | 1.3 | 2.5 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Polonium 212 ⁱ | 0.46 | | | pCi/g | 17-Jun-05 | 0.38 | 0.44 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Polonium 214 ^j | 0.7 | | | pCi/g | 17-Jun-05 | 0.23 | 0.22 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Polonium 215 ^k | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Polonium 216 ^l | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.18 |
| HD3C71GN | Soil | BRC-BKG-12B-0-0.5 | Polonium 218 ^m | 0.872 J | U | k, b | pCi/g | 17-Jun-05 | 0.14 | 0.226 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Potassium 40 | 31 | | | pCi/g | 17-Jun-05 | 4.4 | 0.7 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Protactinium 234 | -0.12 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.27 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Radium 223 ⁿ | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Radium 224 ^o | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.18 |
| HD3C71GN | Soil | BRC-BKG-12B-0-0.5 | Radium 226 | 0.872 J | U | k, b | pCi/g | 17-Jun-05 | 0.14 | 0.226 |
| HD3C71GP | Soil | BRC-BKG-12B-0-0.5 | Radium 228 | 2.94 | | | pCi/g | 17-Jun-05 | 0.3 | 0.71 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thallium 207 ^p | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thallium 208 | 0.49 | | | pCi/g | 17-Jun-05 | 0.12 | 0.09 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 227 | 0.14 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.81 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 228 | 1.48 | | | pCi/g | 17-Jun-05 | 0.29 | 0.13 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 230 | 0.78 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.09 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 231 | 0.054 U | | | pCi/g | 17-Jun-05 | 0.077 | 0.12 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 232 | 1.46 | | | pCi/g | 17-Jun-05 | 0.28 | 0.05 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thorium 234 | 0.7 U | | | pCi/g | 17-Jun-05 | 0.67 | 1.2 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Uranium 233/234 | 0.47 J | U | b | pCi/g | 17-Jun-05 | 0.19 | 0.13 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Uranium 235 | 0.035 U | | | pCi/g | 17-Jun-05 | 0.077 | 0.12 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Uranium 238 | 0.57 J | J | k | pCi/g | 17-Jun-05 | 0.21 | 0.12 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Moisture (%) | 0.38 | | | percent | 17-Jun-05 | | |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Aluminum | 6240 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Antimony | 0.22 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Arsenic | 5.9 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Barium | 369 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|---|-------|-------------|------------------------|--------|
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Beryllium | 0.62 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Calcium | 16600 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Chromium | 11.7 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Cobalt | 6.1 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Copper | 17.6 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Iron | 14000 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lead | 17.5 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Lithium | 13.5 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Magnesium | 6880 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Manganese | 455 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Molybdenum | 0.83 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Nickel | 12.1 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Palladium | 0.19 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Phosphorus | 745 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Potassium | 1840 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Selenium | 0.59 | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Silicon | 761 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Sodium | 146 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Strontium | 91.4 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Thallium | 1.4 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Tin | 0.34 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Titanium | 313 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Tungsten | 0.68 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Uranium | 0.63 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Vanadium | 24.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Zinc | 35.3 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233014 | Soil | BRC-BKG-12B-0-0.5 | Zirconium | 63.5 | | | mg/kg | 17-Jun-05 | | 0.0874 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|-------|
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Chloride | 1.7 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Nitrate | 0.59 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Sulfate | 6 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | CEC | 8.8 | | | meq/100g | 17-Jun-05 | | |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | pH (solid) | 9 | J | h | none | 17-Jun-05 | | |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Actinium 227 ^d | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Actinium 228 | 1.74 | | | pCi/g | 17-Jun-05 | 0.65 | 0.34 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Bismuth 210 ^e | -0.27 U | | | pCi/g | 17-Jun-05 | 0.9 | 1.6 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Bismuth 211 ^f | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Bismuth 212 | 1.12 | | | pCi/g | 17-Jun-05 | 0.47 | 0.98 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Bismuth 214 | 0.8 | | | pCi/g | 17-Jun-05 | 0.22 | 0.35 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Cobalt 57 | 0.001 U | | | pCi/g | 17-Jun-05 | 0.025 | 0.042 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Cobalt 60 | 0.018 U | | | pCi/g | 17-Jun-05 | 0.043 | 0.09 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lead 210 | -0.27 U | | | pCi/g | 17-Jun-05 | 0.9 | 1.6 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lead 211 ^g | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lead 212 | 1.21 | | | pCi/g | 17-Jun-05 | 0.22 | 0.14 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lead 214 | 0.64 | | | pCi/g | 17-Jun-05 | 0.17 | 0.14 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Polonium 210 ^h | -0.27 U | | | pCi/g | 17-Jun-05 | 0.9 | 1.6 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Polonium 212 ⁱ | 0.72 | | | pCi/g | 17-Jun-05 | 0.3 | 0.63 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Polonium 214 ^j | 0.8 | | | pCi/g | 17-Jun-05 | 0.22 | 0.15 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Polonium 215 ^k | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Polonium 216 ^l | 1.21 | | | pCi/g | 17-Jun-05 | 0.22 | 0.14 |
| HD3C91C5 | Soil | BRC-BKG-12B-4-6 | Polonium 218 ^m | 0.592 J | U | k, b | pCi/g | 17-Jun-05 | 0.12 | 0.239 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Potassium 40 | 32.6 | | | pCi/g | 17-Jun-05 | 4.3 | 0.7 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Protactinium 234 | -0.03 U | | | pCi/g | 17-Jun-05 | 0.13 | 0.23 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Radium 223 ⁿ | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Radium 224 ^o | 1.21 | | | pCi/g | 17-Jun-05 | 0.22 | 0.14 |
| HD3C91C5 | Soil | BRC-BKG-12B-4-6 | Radium 226 | 0.592 J | U | k, b | pCi/g | 17-Jun-05 | 0.12 | 0.239 |
| HD3C91C6 | Soil | BRC-BKG-12B-4-6 | Radium 228 | 2.42 | | | pCi/g | 17-Jun-05 | 0.28 | 0.742 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thallium 207 ^p | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thallium 208 | 0.43 | | | pCi/g | 17-Jun-05 | 0.1 | 0.07 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 227 | -0.03 U | | | pCi/g | 17-Jun-05 | 0.38 | 0.66 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 228 | 1.53 | | | pCi/g | 17-Jun-05 | 0.3 | 0.13 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 230 | 1.02 | | | pCi/g | 17-Jun-05 | 0.23 | 0.07 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 231 | 0.076 J | U | b | pCi/g | 17-Jun-05 | 0.073 | 0.068 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 232 | 1.47 | | | pCi/g | 17-Jun-05 | 0.29 | 0.06 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thorium 234 | 1.42 | | | pCi/g | 17-Jun-05 | 0.45 | 0.76 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Uranium 233/234 | 0.9 J | U | b | pCi/g | 17-Jun-05 | 0.23 | 0.05 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Uranium 235 | 0.076 J | J | k | pCi/g | 17-Jun-05 | 0.073 | 0.068 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Uranium 238 | 0.64 J | J | k | pCi/g | 17-Jun-05 | 0.19 | 0.03 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Moisture (%) | 4.4 | | | percent | 17-Jun-05 | | |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Aluminum | 5090 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Arsenic | 5.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Barium | 395 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Beryllium | 0.52 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Calcium | 9440 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Chromium | 8.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Cobalt | 5.1 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Copper | 30.5 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Iron | 11200 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lead | 12.4 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Lithium | 10.9 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Magnesium | 4580 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Manganese | 414 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Molybdenum | 0.97 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Nickel | 10 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Palladium | 0.19 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Phosphorus | 984 | | | mg/kg | 17-Jun-05 | | 1.913 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Potassium | 1240 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Selenium | 0.4 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Silicon | 690 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Sodium | 265 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Strontium | 84.4 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Thallium | 1.3 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Tin | 0.22 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Titanium | 213 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Tungsten | 0.71 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Uranium | 0.74 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Vanadium | 21.7 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Zinc | 26.5 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233015 | Soil | BRC-BKG-12B-4-6 | Zirconium | 92.9 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Chloride | 37.7 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Nitrate | 0.61 | J | h | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Sulfate | 19.3 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | CEC | 10.8 | | | meq/100g | 17-Jun-05 | | |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | pH (solid) | 8.3 | J | h | none | 17-Jun-05 | | |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Actinium 227 ^d | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Actinium 228 | 1.77 | | | pCi/g | 17-Jun-05 | 0.63 | 0.4 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Bismuth 210 ^e | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Bismuth 211 ^f | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Bismuth 212 | 0.52 U | | | pCi/g | 17-Jun-05 | 0.45 | 0.95 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Bismuth 214 | 0.75 | | | pCi/g | 17-Jun-05 | 0.19 | 0.39 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Cobalt 57 | -0.008 U | | | pCi/g | 17-Jun-05 | 0.031 | 0.053 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Cobalt 60 | -0.031 U | | | pCi/g | 17-Jun-05 | 0.046 | 0.076 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lead 210 | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lead 211 ^g | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lead 212 | 1.16 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lead 214 | 0.83 | | | pCi/g | 17-Jun-05 | 0.21 | 0.17 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Polonium 210 ^h | 0.7 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.3 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Polonium 212 ⁱ | 0.33 U | | | pCi/g | 17-Jun-05 | 0.29 | 0.61 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Polonium 214 ^j | 0.75 | | | pCi/g | 17-Jun-05 | 0.19 | 0.17 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Polonium 215 ^k | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Polonium 216 ^l | 1.16 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| HD3DF1C4 | Soil | BRC-BKG-12B-9-11 | Polonium 218 ^m | 0.926 J | J | k, n | pCi/g | 17-Jun-05 | 0.14 | 0.173 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Potassium 40 | 28.8 | | | pCi/g | 17-Jun-05 | 4.2 | 1.3 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Protactinium 234 | -0.06 U | | | pCi/g | 17-Jun-05 | 0.15 | 0.26 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Radium 223 ⁿ | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Radium 224 ^o | 1.16 | | | pCi/g | 17-Jun-05 | 0.22 | 0.17 |
| HD3DF1C4 | Soil | BRC-BKG-12B-9-11 | Radium 226 | 0.926 J | J | k, n | pCi/g | 17-Jun-05 | 0.14 | 0.173 |
| HD3DF1C5 | Soil | BRC-BKG-12B-9-11 | Radium 228 | 1.52 J | R | k, e | pCi/g | 17-Jun-05 | 0.24 | 0.67 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thallium 207 ^p | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thallium 208 | 0.48 | | | pCi/g | 17-Jun-05 | 0.14 | 0.1 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 227 | 0.01 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.71 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 228 | 1.17 | | | pCi/g | 17-Jun-05 | 0.25 | 0.09 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 230 | 0.82 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.05 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 231 | 0.053 U | | | pCi/g | 17-Jun-05 | 0.067 | 0.08 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 232 | 1.29 | | | pCi/g | 17-Jun-05 | 0.26 | 0.06 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thorium 234 | 1.44 | | | pCi/g | 17-Jun-05 | 0.69 | 1.2 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Uranium 233/234 | 0.89 J | U | b | pCi/g | 17-Jun-05 | 0.25 | 0.07 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Uranium 235 | 0.053 U | | | pCi/g | 17-Jun-05 | 0.067 | 0.08 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Uranium 238 | 0.81 J | J | k | pCi/g | 17-Jun-05 | 0.24 | 0.08 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Moisture (%) | 3.8 | | | percent | 17-Jun-05 | | |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Aluminum | 6370 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Antimony | N U | UJ- | e | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Arsenic | 5.3 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Barium | 573 NE | J+ | j, e | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Beryllium | 0.54 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Boron | 4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Calcium | 36400 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Chromium | 7.9 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Cobalt | 5.2 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Copper | 14.3 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Iron | 9180 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lead | 9.4 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Lithium | 11.7 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Magnesium | 5340 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Manganese | 345 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Mercury | 0.015 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Molybdenum | 0.89 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Nickel | 8.9 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Niobium | 1.5 BN | UJ- | b, e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Palladium | 0.48 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Phosphorus | 820 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Potassium | 1240 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Selenium | U | | | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Silicon | 883 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Sodium | 711 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Strontium | 219 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Thallium | 0.95 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Tin | 0.21 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Titanium | 200 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Tungsten | 1.5 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Uranium | 0.84 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Vanadium | 19.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Zinc | 21.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233016 | Soil | BRC-BKG-12B-9-11 | Zirconium | 85.6 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Chloride | 0.96 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 17-Jun-05 | | 0.1 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|-------|
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Sulfate | 3.1 B | U | b | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | CEC | 8.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | pH (solid) | 8.8 | J | h | none | 17-Jun-05 | | |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Actinium 227 ^d | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Actinium 228 | 1.17 | | | pCi/g | 17-Jun-05 | 0.57 | 0.4 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Bismuth 211 ^f | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Bismuth 212 | 0.92 U | | | pCi/g | 17-Jun-05 | 0.61 | 1.2 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Bismuth 214 | 0.76 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Cobalt 57 | -0.004 U | | | pCi/g | 17-Jun-05 | 0.032 | 0.056 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Cobalt 60 | -0.007 U | | | pCi/g | 17-Jun-05 | 0.049 | 0.094 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lead 211 ^g | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lead 212 | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lead 214 | 0.83 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 17-Jun-05 | 1.2 | 2.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Polonium 212 ⁱ | 0.59 U | | | pCi/g | 17-Jun-05 | 0.39 | 0.77 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Polonium 214 ^j | 0.76 | | | pCi/g | 17-Jun-05 | 0.21 | 0.18 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Polonium 215 ^k | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Polonium 216 ^l | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| HD3AV1C7 | Soil | BRC-BKG-12C-0-0.5 | Polonium 218 ^m | 0.63 J | U | k, b | pCi/g | 17-Jun-05 | 0.1 | 0.119 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Potassium 40 | 30 | | | pCi/g | 17-Jun-05 | 4.3 | 1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Protactinium 234 | -0.02 U | | | pCi/g | 17-Jun-05 | 0.16 | 0.27 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Radium 223 ⁿ | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Radium 224 ^o | 1.36 | | | pCi/g | 17-Jun-05 | 0.24 | 0.16 |
| HD3AV1C7 | Soil | BRC-BKG-12C-0-0.5 | Radium 226 | 0.63 J | U | k, b | pCi/g | 17-Jun-05 | 0.1 | 0.119 |
| HD3AV1C8 | Soil | BRC-BKG-12C-0-0.5 | Radium 228 | 3.76 | R | e | pCi/g | 17-Jun-05 | 0.36 | 0.8 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thallium 207 ^p | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thallium 208 | 0.53 | | | pCi/g | 17-Jun-05 | 0.12 | 0.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 227 | 0.06 U | | | pCi/g | 17-Jun-05 | 0.42 | 0.74 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 228 | 1.34 | | | pCi/g | 17-Jun-05 | 0.29 | 0.16 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 230 | 0.72 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 231 | 0.054 J | U | b | pCi/g | 17-Jun-05 | 0.073 | 0.049 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 232 | 1.47 | | | pCi/g | 17-Jun-05 | 0.29 | 0.08 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thorium 234 | -0.11 U | | | pCi/g | 17-Jun-05 | 0.68 | 1.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Uranium 233/234 | 0.8 J | U | b | pCi/g | 17-Jun-05 | 0.24 | 0.1 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Uranium 235 | 0.054 J | J | k | pCi/g | 17-Jun-05 | 0.073 | 0.049 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Uranium 238 | 0.59 J | J | k | pCi/g | 17-Jun-05 | 0.2 | 0.08 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Moisture (%) | 0.45 | | | percent | 17-Jun-05 | | |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Aluminum | 5530 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Antimony | 0.44 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Arsenic | 4.4 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Barium | 424 NE | J | j | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Beryllium | 0.48 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Boron | 4 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Calcium | 10900 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Chromium | 9.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Cobalt | 5.4 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Copper | 23.2 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Iron | 11000 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lead | 8.9 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Lithium | 9.1 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Magnesium | 5450 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Manganese | 422 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Mercury | 0.0097 B | J | g | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Molybdenum | 0.73 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Nickel | 11.4 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Niobium | 2.4 BN | U | b | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Palladium | 0.2 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Phosphorus | 636 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Potassium | 1520 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Selenium | 0.26 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Silicon | 789 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Sodium | 111 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Strontium | 86.8 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Thallium | 0.87 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Tin | 0.28 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Titanium | 244 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Tungsten | 1.1 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Uranium | 0.43 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Vanadium | 23.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Zinc | 24.8 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233001 | Soil | BRC-BKG-12C-0-0.5 | Zirconium | 60.1 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Chloride | 0.86 B | U | b | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Nitrate | 0.13 B | J | h, g | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Sulfate | 8.5 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | CEC | 8.2 | | | meq/100g | 17-Jun-05 | | |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | pH (solid) | 9 | J | h | none | 17-Jun-05 | | |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Actinium 227 ^d | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Actinium 228 | 1.78 | | | pCi/g | 17-Jun-05 | 0.64 | 0.35 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Bismuth 210 ^e | -0.14 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Bismuth 211 ^f | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Bismuth 212 | 0.68 U | | | pCi/g | 17-Jun-05 | 0.47 | 0.94 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Bismuth 214 | 0.71 | | | pCi/g | 17-Jun-05 | 0.19 | 0.33 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Cobalt 57 | 0.015 U | | | pCi/g | 17-Jun-05 | 0.029 | 0.05 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Cobalt 60 | 0.02 U | | | pCi/g | 17-Jun-05 | 0.062 | 0.12 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lead 210 | -0.14 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lead 211 ^g | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lead 212 | 1.44 | | | pCi/g | 17-Jun-05 | 0.22 | 0.11 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lead 214 | 0.76 | | | pCi/g | 17-Jun-05 | 0.23 | 0.14 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Polonium 210 ^h | -0.14 U | | | pCi/g | 17-Jun-05 | 0.98 | 1.8 |

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Polonium 212 ⁱ | 0.44 U | | | pCi/g | 17-Jun-05 | 0.3 | 0.6 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Polonium 214 ^j | 0.71 | | | pCi/g | 17-Jun-05 | 0.19 | 0.16 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Polonium 215 ^k | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Polonium 216 ^l | 1.44 | | | pCi/g | 17-Jun-05 | 0.22 | 0.11 |
| HD3A51C4 | Soil | BRC-BKG-12C-4-6 | Polonium 218 ^m | 0.637 J | J | k | pCi/g | 17-Jun-05 | 0.1 | 0.108 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Potassium 40 | 35 | | | pCi/g | 17-Jun-05 | 4.7 | 0.7 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Protactinium 234 | -0.08 U | | | pCi/g | 17-Jun-05 | 0.14 | 0.23 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Radium 223 ⁿ | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Radium 224 ^o | 1.44 | | | pCi/g | 17-Jun-05 | 0.22 | 0.11 |
| HD3A51C4 | Soil | BRC-BKG-12C-4-6 | Radium 226 | 0.637 J | J | k | pCi/g | 17-Jun-05 | 0.1 | 0.108 |
| HD3A51C5 | Soil | BRC-BKG-12C-4-6 | Radium 228 | 2.37 | R | e | pCi/g | 17-Jun-05 | 0.28 | 0.731 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thallium 207 ^p | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thallium 208 | 0.54 | | | pCi/g | 17-Jun-05 | 0.12 | 0.09 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 227 | -0.57 U | | | pCi/g | 17-Jun-05 | 0.4 | 0.62 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 228 | 1.7 | | | pCi/g | 17-Jun-05 | 0.37 | 0.19 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 230 | 0.87 J | J | k | pCi/g | 17-Jun-05 | 0.24 | 0.07 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 231 | 0.03 U | | | pCi/g | 17-Jun-05 | 0.052 | 0.041 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 232 | 1.44 | | | pCi/g | 17-Jun-05 | 0.32 | 0.09 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thorium 234 | 0.52 U | | | pCi/g | 17-Jun-05 | 0.57 | 1 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Uranium 233/234 | 0.77 J | U | b | pCi/g | 17-Jun-05 | 0.21 | 0.06 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Uranium 235 | 0.03 U | | | pCi/g | 17-Jun-05 | 0.052 | 0.041 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Uranium 238 | 0.66 J | J | k | pCi/g | 17-Jun-05 | 0.19 | 0.06 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Moisture (%) | 4 | | | percent | 17-Jun-05 | | |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Aluminum | 5480 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Antimony | 0.13 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Arsenic | 4.7 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Barium | 436 NE | J | j | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Beryllium | 0.43 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Boron | U | | | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Calcium | 8160 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Chromium | 7.1 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Cobalt | 6.5 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Copper | 18.6 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Iron | 9370 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lead | 8.9 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Lithium | 9.3 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Magnesium | 4930 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Manganese | 507 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Molybdenum | 0.94 B | J | g | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Nickel | 11.2 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Niobium | 1.6 BN | U | b | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Palladium | 0.23 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Phosphorus | 842 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Potassium | 1580 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Selenium | 0.28 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Silicon | 527 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Sodium | 280 | | | mg/kg | 17-Jun-05 | | 7.567 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Strontium | 92 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Thallium | 1.1 | | | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Tin | 0.21 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Titanium | 265 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Tungsten | 0.99 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Uranium | 0.84 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Vanadium | 24.4 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Zinc | 21.4 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233002 | Soil | BRC-BKG-12C-4-6 | Zirconium | 92.7 | | | mg/kg | 17-Jun-05 | | 0.0874 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Chloride | 35.9 | | | mg/kg | 17-Jun-05 | | 0.25 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Fluoride | U | | | mg/kg | 17-Jun-05 | | 0.051 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Nitrate | 0.11 B | J | h, g | mg/kg | 17-Jun-05 | | 0.1 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Nitrite | U | UJ | h | mg/kg | 17-Jun-05 | | 0.061 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Sulfate | 17.9 | | | mg/kg | 17-Jun-05 | | 0.612 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | CEC | 9.9 | | | meq/100g | 17-Jun-05 | | |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|---|-------|-------------|------------------------|-------|
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Cr VI | U | | | mg/kg | 17-Jun-05 | | 0.251 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | pH (solid) | 8.2 | J | h | none | 17-Jun-05 | | |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Actinium 227 ^d | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Actinium 228 | 1.22 | | | pCi/g | 17-Jun-05 | 0.52 | 0.4 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Bismuth 210 ^e | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Bismuth 211 ^f | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Bismuth 212 | 0.69 U | | | pCi/g | 17-Jun-05 | 0.52 | 1 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Bismuth 214 | 0.73 | | | pCi/g | 17-Jun-05 | 0.18 | 0.16 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Cobalt 57 | -0.0009 U | | | pCi/g | 17-Jun-05 | 0.03 | 0.052 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Cobalt 60 | 0.032 U | | | pCi/g | 17-Jun-05 | 0.059 | 0.12 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lead 210 | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lead 211 ^g | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lead 212 | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lead 214 | 0.73 | | | pCi/g | 17-Jun-05 | 0.19 | 0.16 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Polonium 210 ^h | 0.3 U | | | pCi/g | 17-Jun-05 | 1.1 | 2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Polonium 212 ⁱ | 0.45 U | | | pCi/g | 17-Jun-05 | 0.33 | 0.67 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Polonium 214 ^j | 0.73 | | | pCi/g | 17-Jun-05 | 0.18 | 0.16 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Polonium 215 ^k | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Polonium 216 ^l | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.2 |
| HD3CA1C4 | Soil | BRC-BKG-12C-9-11 | Polonium 218 ^m | 0.583 J | J | k | pCi/g | 17-Jun-05 | 0.098 | 0.161 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Potassium 40 | 29.3 | | | pCi/g | 17-Jun-05 | 4.3 | 1.2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Protactinium 234 | -0.01 U | | | pCi/g | 17-Jun-05 | 0.17 | 0.26 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Radium 223 ⁿ | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Radium 224 ^o | 1.08 | | | pCi/g | 17-Jun-05 | 0.22 | 0.2 |
| HD3CA1C4 | Soil | BRC-BKG-12C-9-11 | Radium 226 | 0.583 J | J | k | pCi/g | 17-Jun-05 | 0.098 | 0.161 |
| HD3CA1C5 | Soil | BRC-BKG-12C-9-11 | Radium 228 | 3.13 | R | e | pCi/g | 17-Jun-05 | 0.34 | 0.825 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thallium 207 ^p | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thallium 208 | 0.46 | | | pCi/g | 17-Jun-05 | 0.13 | 0.09 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 227 | 0.005 U | | | pCi/g | 17-Jun-05 | 0.46 | 0.8 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 228 | 1.36 | | | pCi/g | 17-Jun-05 | 0.34 | 0.18 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 230 | 0.66 J | J | k | pCi/g | 17-Jun-05 | 0.22 | 0.1 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 231 | 0.046 U | | | pCi/g | 17-Jun-05 | 0.08 | 0.12 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 232 | 1.05 | | | pCi/g | 17-Jun-05 | 0.28 | 0.08 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thorium 234 | 1.29 | | | pCi/g | 17-Jun-05 | 0.8 | 1.1 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Uranium 233/234 | 0.68 J | U | b | pCi/g | 17-Jun-05 | 0.22 | 0.13 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Uranium 235 | 0.046 U | | | pCi/g | 17-Jun-05 | 0.08 | 0.12 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Uranium 238 | 0.76 J | J | k | pCi/g | 17-Jun-05 | 0.22 | 0.09 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Moisture (%) | 3.2 | | | percent | 17-Jun-05 | | |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Aluminum | 6180 NE | J | j | mg/kg | 17-Jun-05 | | 2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Antimony | 0.13 BN | J- | e, g | mg/kg | 17-Jun-05 | | 0.3298 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Arsenic | 5.5 | | | mg/kg | 17-Jun-05 | | 0.1278 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Barium | 697 NE | J | j | mg/kg | 17-Jun-05 | | 0.152 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Beryllium | 0.54 | | | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Boron | 4.2 B | U | b | mg/kg | 17-Jun-05 | | 3.2 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Cadmium | U | | | mg/kg | 17-Jun-05 | | 0.1291 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Calcium | 26600 N | | | mg/kg | 17-Jun-05 | | 1.028 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Chromium | 8.8 | | | mg/kg | 17-Jun-05 | | 0.1841 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Cobalt | 12.3 E | J | j | mg/kg | 17-Jun-05 | | 0.064 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Copper | 23.4 N | | | mg/kg | 17-Jun-05 | | 0.2205 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Iron | 10800 N | | | mg/kg | 17-Jun-05 | | 1.173 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lead | 9.9 N* | J | d | mg/kg | 17-Jun-05 | | 0.0506 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Lithium | 12.6 | | | mg/kg | 17-Jun-05 | | 0.2425 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Magnesium | 5920 E | J | j | mg/kg | 17-Jun-05 | | 1.176 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Manganese | 469 N | | | mg/kg | 17-Jun-05 | | 0.0131 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Mercury | U | | | mg/kg | 17-Jun-05 | | 0.0072 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Molybdenum | 1.3 | | | mg/kg | 17-Jun-05 | | 0.241 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Nickel | 12.6 E | J | j | mg/kg | 17-Jun-05 | | 0.1295 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Niobium | N U | UJ- | e | mg/kg | 17-Jun-05 | | 1.015 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Palladium | 0.34 | | | mg/kg | 17-Jun-05 | | 0.0765 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Phosphorus | 727 | | | mg/kg | 17-Jun-05 | | 1.913 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Platinum | U | | | mg/kg | 17-Jun-05 | | 0.0435 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Potassium | 1380 E | J | j | mg/kg | 17-Jun-05 | | 2.079 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Selenium | 0.4 B | J | g | mg/kg | 17-Jun-05 | | 0.1579 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Silicon | 680 N | | | mg/kg | 17-Jun-05 | | 0.5289 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Silver | N U | | | mg/kg | 17-Jun-05 | | 0.2609 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Sodium | 432 | | | mg/kg | 17-Jun-05 | | 7.567 |

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|-----------|---------------------|-------------------------|---|-------|-------------|------------------------|--------|
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Strontium | 160 | | | mg/kg | 17-Jun-05 | | 0.0735 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Thallium | 0.9 B | U | b | mg/kg | 17-Jun-05 | | 0.5428 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Tin | 0.25 B | J | g | mg/kg | 17-Jun-05 | | 0.187 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Titanium | 227 N | | | mg/kg | 17-Jun-05 | | 0.1175 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Tungsten | 0.81 B | U | b | mg/kg | 17-Jun-05 | | 0.0175 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Uranium | 0.71 B | J | g | mg/kg | 17-Jun-05 | | 0.038 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Vanadium | 23.2 | | | mg/kg | 17-Jun-05 | | 0.5535 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Zinc | 25.2 | | | mg/kg | 17-Jun-05 | | 0.2207 |
| F5F210233003 | Soil | BRC-BKG-12C-9-11 | Zirconium | 68.4 | | | mg/kg | 17-Jun-05 | | 0.0874 |

Notes:

- * Indicates that laboratory QC limits for duplicate precision were not met.
 - B Indicates that results are less than the practical quantitation limit.
 - CEC Cation exchange capacity
 - Cr VI Hexavalent chromium
 - E Indicates that the laboratory QC limits for serial dilution were not met.
 - J Indicates that the laboratory qualified the result as estimated.
 - meq/100g Milliequivalent per 100 gram
 - mg/kg Milligram per kilogram
 - N Indicates that laboratory QC limits for matrix spike accuracy were not met.
 - pCi/g PicoCurie per gram
 - SQL Sample quantitation limit; equivalent to the method detection limit corrected for sample preparation factors and moisture content.
 - U The analyte was undetected in the sample.
- a If the result cell has no numerical value and the qualifier "U", then the analyte was undetected at the sample quantitation limit listed under "SQL."
The result includes the numerical value and the qualifier(s) as reported by the laboratory; validation qualifiers supersede laboratory qualifiers.
Laboratory result qualifiers are defined in the notes above; while the validation qualifiers and codes are defined in Table C-3.
- b Validation qualifiers and comments codes are defined in Table C-3.
- c Rad error represents the 2-sigma error applicable to radionuclide results only.
- d Actinium 227 assumes equilibrium w/ Th-227; quantified from Th-227.
- e Bismuth 210 assumes equilibrium w/ Pb-210; quantified from Pb-210.
- f Bismuth 211 assumes equilibrium w/ Th-227; quantified from Th-227.
- g Lead 211 assumes equilibrium w/ Th-227; quantified from Th-227.
- h Polonium 210 assumes equilibrium w/ Bi-210; quantified from Bi-210.
- i Polonium 212 assumes equilibrium w/ Bi-212; quantified from Bi-212.
- j Polonium 214 assumes equilibrium w/ Bi-214; quantified from Bi-214.

**TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|----------------------|---------------|------------------|----------------|----------------------------|--------------------------------|-------------|--------------------|-------------------------------|------------|
|----------------------|---------------|------------------|----------------|----------------------------|--------------------------------|-------------|--------------------|-------------------------------|------------|

k Polonium 215 assumes equilibrium w/ Th-227; quantified from Th-227.
l Polonium 216 assumes equilibrium w/ Ra-224; quantified from Ra-224.
m Polonium 218 assumes equilibrium w/ Ra-226; quantified from Ra-226.
n Radium 223 assumes equilibrium w/ Th-227; quantified from Th-227.
o Radium 224 assumes equilibrium w/ Pb-212; quantified from Pb-212.
p Thallium 207 assumes equilibrium w/ Th-227; quantified from Th-227.

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|---------------------------|---------------------|-------------------------|---|----------|-------------|------------------------|--------|
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Chloride | 181 | | | mg/kg | 16-Jun-05 | | 0.25 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Fluoride | U | | | mg/kg | 16-Jun-05 | | 0.051 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Nitrate | 26.3 | J | h | mg/kg | 16-Jun-05 | | 0.1 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Nitrite | U | UJ | h | mg/kg | 16-Jun-05 | | 0.061 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Sulfate | 227 | | | mg/kg | 16-Jun-05 | | 0.612 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | CEC | 9.6 | | | meq/100g | 16-Jun-05 | | |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Cr VI | U | | | mg/kg | 16-Jun-05 | | 0.251 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | pH (solid) | 8.5 | J | h | none | 16-Jun-05 | | |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Actinium 227 ^d | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.74 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Actinium 228 | 1.85 | | | pCi/g | 16-Jun-05 | 0.66 | 0.35 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Bismuth 210 ^e | -0.021 U | | | pCi/g | 16-Jun-05 | 0.996 | 1.8 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Bismuth 211 ^f | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Bismuth 212 | 1.11 | | | pCi/g | 16-Jun-05 | 0.55 | 1.1 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Bismuth 214 | 0.92 | | | pCi/g | 16-Jun-05 | 0.22 | 0.38 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Cobalt 57 | -0.007 U | | | pCi/g | 16-Jun-05 | 0.029 | 0.048 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Cobalt 60 | 0.001 U | | | pCi/g | 16-Jun-05 | 0.053 | 0.1 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lead 210 | -0.021 U | | | pCi/g | 16-Jun-05 | 0.996 | 1.8 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lead 211 ^g | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lead 212 | 1.64 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lead 214 | 0.85 | | | pCi/g | 16-Jun-05 | 0.2 | 0.2 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Polonium 210 ^h | -0.021 U | | | pCi/g | 16-Jun-05 | 0.996 | 1.8 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Polonium 212 ⁱ | 0.71 | | | pCi/g | 16-Jun-05 | 0.35 | 0.71 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Polonium 214 ^j | 0.92 | | | pCi/g | 16-Jun-05 | 0.22 | 0.17 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Polonium 215 ^k | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Polonium 216 ^l | 1.64 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| HDXH01C4 | Soil | BRC-BCG-03A-3-7 | Polonium 218 ^m | 1.1 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.0877 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Potassium 40 | 26.7 | | | pCi/g | 16-Jun-05 | 3.8 | 5.7 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Protactinium 234 | -0.02 U | | | pCi/g | 16-Jun-05 | 0.15 | 0.23 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Radium 223 ⁿ | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Radium 224 ^o | 1.64 | | | pCi/g | 16-Jun-05 | 0.27 | 0.16 |
| HDXH01C4 | Soil | BRC-BCG-03A-3-7 | Radium 226 | 1.1 | J | n | pCi/g | 16-Jun-05 | 0.14 | 0.0877 |
| HDXH01C5 | Soil | BRC-BCG-03A-3-7 | Radium 228 | 1.96 J | J | k | pCi/g | 16-Jun-05 | 0.23 | 0.49 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thallium 207 ^p | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thallium 208 | 0.56 | | | pCi/g | 16-Jun-05 | 0.13 | 0.08 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 227 | 0.09 U | | | pCi/g | 16-Jun-05 | 0.41 | 0.75 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 228 | 1.78 | | | pCi/g | 16-Jun-05 | 0.37 | 0.17 |

**TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-----------------|-----------------|---------------------|-------------------------|---------|-------------|------------------------|--------|
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 230 | 1.21 | | pCi/g | 16-Jun-05 | 0.29 | 0.12 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 231 | 0.031 U | | pCi/g | 16-Jun-05 | 0.054 | 0.042 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 232 | 2.13 | | pCi/g | 16-Jun-05 | 0.4 | 0.06 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thorium 234 | 0.22 U | | pCi/g | 16-Jun-05 | 0.75 | 1.1 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Uranium 233/234 | 0.95 J | U | pCi/g | 16-Jun-05 | 0.24 | 0.07 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Uranium 235 | 0.031 U | | pCi/g | 16-Jun-05 | 0.054 | 0.042 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Uranium 238 | 0.98 J | J | pCi/g | 16-Jun-05 | 0.24 | 0.05 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Moisture (%) | 2.6 | | percent | 16-Jun-05 | | |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Aluminum | 6580 N | | mg/kg | 16-Jun-05 | | 2 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Antimony | N U | | mg/kg | 16-Jun-05 | | 0.3298 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Arsenic | 3.8 | | mg/kg | 16-Jun-05 | | 0.1278 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Barium | 218 | | mg/kg | 16-Jun-05 | | 0.152 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Beryllium | 0.42 B | J | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Boron | 4.4 B | U | mg/kg | 16-Jun-05 | | 3.2 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Cadmium | U | | mg/kg | 16-Jun-05 | | 0.1291 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Calcium | 24600 N | | mg/kg | 16-Jun-05 | | 1.028 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Chromium | 5.5 | | mg/kg | 16-Jun-05 | | 0.1841 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Cobalt | 11.6 E | J | mg/kg | 16-Jun-05 | | 0.064 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Copper | 14.4 | | mg/kg | 16-Jun-05 | | 0.2205 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Iron | 8480 N | | mg/kg | 16-Jun-05 | | 1.173 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lead | 7.4 | | mg/kg | 16-Jun-05 | | 0.0506 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Lithium | 11.7 | | mg/kg | 16-Jun-05 | | 0.2425 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Magnesium | 5720 | | mg/kg | 16-Jun-05 | | 1.176 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Manganese | 468 NE | J | mg/kg | 16-Jun-05 | | 0.0131 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Mercury | U | | mg/kg | 16-Jun-05 | | 0.0072 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Molybdenum | 0.65 B | J | mg/kg | 16-Jun-05 | | 0.241 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Nickel | 10.4 E | J | mg/kg | 16-Jun-05 | | 0.1295 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Niobium | 1.6 BN | UJ- | mg/kg | 16-Jun-05 | | 1.015 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Palladium | 0.44 | | mg/kg | 16-Jun-05 | | 0.0765 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Phosphorus | 1150 N | | mg/kg | 16-Jun-05 | | 1.913 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Platinum | U | | mg/kg | 16-Jun-05 | | 0.0435 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Potassium | 2260 | | mg/kg | 16-Jun-05 | | 2.079 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Selenium | 0.38 B | J | mg/kg | 16-Jun-05 | | 0.1579 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Silicon | 1150 N | | mg/kg | 16-Jun-05 | | 0.5289 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Silver | N U | | mg/kg | 16-Jun-05 | | 0.2609 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Sodium | 588 | | mg/kg | 16-Jun-05 | | 7.567 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Strontium | 234 N | J- | e | mg/kg | 16-Jun-05 | | 0.0735 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Thallium | 0.39 B | U | b | mg/kg | 16-Jun-05 | | 0.5428 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Tin | 0.42 B | J | g | mg/kg | 16-Jun-05 | | 0.187 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Titanium | 528 N | | | mg/kg | 16-Jun-05 | | 0.1175 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Tungsten | 1.6 BE | UJ | b, j | mg/kg | 16-Jun-05 | | 0.0175 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Uranium | 0.85 B | J | g | mg/kg | 16-Jun-05 | | 0.038 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Vanadium | 29 E | J | j | mg/kg | 16-Jun-05 | | 0.5535 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Zinc | 25.5 | | | mg/kg | 16-Jun-05 | | 0.2207 |
| F5F180132023 | Soil | BRC-BCG-03A-3-7 | Zirconium | 116 | | | mg/kg | 16-Jun-05 | | 0.0874 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Chloride | 20.7 | | | mg/kg | 15-Jun-05 | | 0.25 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Fluoride | 0.35 B | | | mg/kg | 15-Jun-05 | | 0.051 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Nitrate | 0.2 B | | | mg/kg | 15-Jun-05 | | 0.1 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Nitrite | U | | | mg/kg | 15-Jun-05 | | 0.061 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Sulfate | 15.7 | | | mg/kg | 15-Jun-05 | | 0.612 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | CEC | 12.9 | | | meq/100g | 15-Jun-05 | | |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Cr VI | U | | | mg/kg | 15-Jun-05 | | 0.251 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | pH (solid) | 9.2 | | | none | 15-Jun-05 | | |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Actinium 227 ^d | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Actinium 228 | 1.36 | | | pCi/g | 15-Jun-05 | 0.52 | 0.36 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Bismuth 210 ^e | 1.09 U | | | pCi/g | 15-Jun-05 | 0.96 | 1.9 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Bismuth 211 ^f | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Bismuth 212 | 1.03 | | | pCi/g | 15-Jun-05 | 0.5 | 0.74 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Bismuth 214 | 0.92 | | | pCi/g | 15-Jun-05 | 0.2 | 0.13 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Cobalt 57 | 0.012 U | | | pCi/g | 15-Jun-05 | 0.027 | 0.047 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Cobalt 60 | -0.006 U | | | pCi/g | 15-Jun-05 | 0.053 | 0.1 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lead 210 | 1.09 U | | | pCi/g | 15-Jun-05 | 0.96 | 1.9 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lead 211 ^g | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lead 212 | 1.26 | | | pCi/g | 15-Jun-05 | 0.21 | 0.15 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lead 214 | 1 | | | pCi/g | 15-Jun-05 | 0.2 | 0.14 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Polonium 210 ^h | 1.09 U | | | pCi/g | 15-Jun-05 | 0.96 | 1.9 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Polonium 212 ⁱ | 0.66 | | | pCi/g | 15-Jun-05 | 0.32 | 0.47 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Polonium 214 ^j | 0.92 | | | pCi/g | 15-Jun-05 | 0.2 | 0.13 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Polonium 215 ^k | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Polonium 216 ^l | 1.26 | | | pCi/g | 15-Jun-05 | 0.21 | 0.15 |
| HDWMJ1C4 | Soil | BRC-BCG-06C-8-12 | Polonium 218 ^m | 1.08 | | | pCi/g | 15-Jun-05 | 0.13 | 0.0938 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Potassium 40 | 20.6 | | | pCi/g | 15-Jun-05 | 3 | 0.5 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|------|---------|-------------|------------------------|--------|
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Protactinium 234 | 0.17 U | | | pCi/g | 15-Jun-05 | 0.14 | 0.24 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Radium 223 ⁿ | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Radium 224 ^o | 1.26 | | | pCi/g | 15-Jun-05 | 0.21 | 0.15 |
| HDWMJ1C4 | Soil | BRC-BCG-06C-8-12 | Radium 226 | 1.08 | | | pCi/g | 15-Jun-05 | 0.13 | 0.0938 |
| HDWMJ1C5 | Soil | BRC-BCG-06C-8-12 | Radium 228 | 1.68 J | J | k | pCi/g | 15-Jun-05 | 0.22 | 0.515 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thallium 207 ^p | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thallium 208 | 0.44 | | | pCi/g | 15-Jun-05 | 0.11 | 0.08 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 227 | 0.26 U | | | pCi/g | 15-Jun-05 | 0.39 | 0.73 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 228 | 1.24 | | | pCi/g | 15-Jun-05 | 0.26 | 0.09 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 230 | 1.51 | | | pCi/g | 15-Jun-05 | 0.28 | 0.05 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 231 | 0.022 U | | | pCi/g | 15-Jun-05 | 0.036 | 0.051 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 232 | 1.19 | | | pCi/g | 15-Jun-05 | 0.25 | 0.06 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thorium 234 | 1.39 | | | pCi/g | 15-Jun-05 | 0.45 | 0.74 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Uranium 233/234 | 1.2 | | | pCi/g | 15-Jun-05 | 0.25 | 0.05 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Uranium 235 | 0.022 U | | | pCi/g | 15-Jun-05 | 0.036 | 0.051 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Uranium 238 | 1.28 | | | pCi/g | 15-Jun-05 | 0.27 | 0.03 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Moisture (%) | 3.8 | | | percent | 15-Jun-05 | | |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Aluminum | 12600 NE | J | j | mg/kg | 15-Jun-05 | | 2 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Antimony | 0.13 BN | J- | e, g | mg/kg | 15-Jun-05 | | 0.3298 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Arsenic | 4.5 | | | mg/kg | 15-Jun-05 | | 0.1278 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Barium | 191 E | J | j | mg/kg | 15-Jun-05 | | 0.152 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Beryllium | 0.63 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Boron | 3.8 B | U | b | mg/kg | 15-Jun-05 | | 3.2 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Cadmium | N U | | | mg/kg | 15-Jun-05 | | 0.1291 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Calcium | 43200 NE | J | j | mg/kg | 15-Jun-05 | | 1.028 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Chromium | 9.5 | | | mg/kg | 15-Jun-05 | | 0.1841 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Cobalt | 12 E | J | j | mg/kg | 15-Jun-05 | | 0.064 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Copper | 21.3 E | J | j | mg/kg | 15-Jun-05 | | 0.2205 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Iron | 16800 N | | | mg/kg | 15-Jun-05 | | 1.173 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lead | 6 | | | mg/kg | 15-Jun-05 | | 0.0506 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Lithium | 19.2 | | | mg/kg | 15-Jun-05 | | 0.2425 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Magnesium | 14400 E | J | j | mg/kg | 15-Jun-05 | | 1.176 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Manganese | 503 NE | J | j | mg/kg | 15-Jun-05 | | 0.0131 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Mercury | 0.0085 B | J | g | mg/kg | 15-Jun-05 | | 0.0072 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Molybdenum | 0.45 B | J | g | mg/kg | 15-Jun-05 | | 0.241 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Nickel | 19.3 E | J | j | mg/kg | 15-Jun-05 | | 0.1295 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|----------|-------------|------------------------|--------|
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Niobium | N U | UJ- | e | mg/kg | 15-Jun-05 | | 1.015 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Palladium | 1 | | | mg/kg | 15-Jun-05 | | 0.0765 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Phosphorus | 1500 | | | mg/kg | 15-Jun-05 | | 1.913 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Platinum | U | | | mg/kg | 15-Jun-05 | | 0.0435 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Potassium | 956 E | J | j | mg/kg | 15-Jun-05 | | 2.079 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Selenium | U | | | mg/kg | 15-Jun-05 | | 0.1579 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Silicon | 656 N | | | mg/kg | 15-Jun-05 | | 0.5289 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Silver | N U | | | mg/kg | 15-Jun-05 | | 0.2609 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Sodium | 831 | | | mg/kg | 15-Jun-05 | | 7.567 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Strontium | 488 E | J | j | mg/kg | 15-Jun-05 | | 0.0735 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Thallium | 0.22 B | U | b | mg/kg | 15-Jun-05 | | 0.5428 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Tin | 0.51 B | J | g | mg/kg | 15-Jun-05 | | 0.187 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Titanium | 650 NE | J | j | mg/kg | 15-Jun-05 | | 0.1175 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Tungsten | 1.9 BE | UJ | b, j | mg/kg | 15-Jun-05 | | 0.0175 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Uranium | 1.5 | | | mg/kg | 15-Jun-05 | | 0.038 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Vanadium | 59.5 E | J | j | mg/kg | 15-Jun-05 | | 0.5535 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Zinc | 42.6 N | J+ | e | mg/kg | 15-Jun-05 | | 0.2207 |
| F5F170373010 | Soil | BRC-BCG-06C-8-12 | Zirconium | 124 NE | J | j | mg/kg | 15-Jun-05 | | 0.0874 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Chloride | 1.3 B | U | b | mg/kg | 14-Jun-05 | | 0.25 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Fluoride | U | | | mg/kg | 14-Jun-05 | | 0.051 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Nitrate | U | UJ | h | mg/kg | 14-Jun-05 | | 0.1 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Nitrite | U | UJ | h | mg/kg | 14-Jun-05 | | 0.061 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Sulfate | 4.8 B | U | b | mg/kg | 14-Jun-05 | | 0.612 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | CEC | 16.5 | | | meq/100g | 14-Jun-05 | | |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Cr VI | U | | | mg/kg | 14-Jun-05 | | 0.251 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | pH (solid) | 9 | J | h | none | 14-Jun-05 | | |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Actinium 227 ^d | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Actinium 228 | 1.7 | | | pCi/g | 14-Jun-05 | 0.59 | 0.34 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Bismuth 210 ^e | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Bismuth 211 ^f | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Bismuth 212 | 0.83 U | | | pCi/g | 14-Jun-05 | 0.48 | 0.96 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Bismuth 214 | 0.75 | | | pCi/g | 14-Jun-05 | 0.2 | 0.33 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Cobalt 57 | -0.006 U | | | pCi/g | 14-Jun-05 | 0.027 | 0.045 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Cobalt 60 | -0.014 U | | | pCi/g | 14-Jun-05 | 0.054 | 0.097 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lead 210 | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lead 211 ^g | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|---|---------|-------------|------------------------|--------|
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lead 212 | 1.42 | | | pCi/g | 14-Jun-05 | 0.21 | 0.13 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lead 214 | 0.71 | | | pCi/g | 14-Jun-05 | 0.18 | 0.15 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Polonium 210 ^h | 0.4 U | | | pCi/g | 14-Jun-05 | 1.1 | 1.9 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Polonium 212 ⁱ | 0.53 U | | | pCi/g | 14-Jun-05 | 0.31 | 0.61 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Polonium 214 ^j | 0.75 | | | pCi/g | 14-Jun-05 | 0.2 | 0.13 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Polonium 215 ^k | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Polonium 216 ^l | 1.42 | | | pCi/g | 14-Jun-05 | 0.21 | 0.13 |
| HDRG71C4 | Soil | BRC-BCG-09C-0-0.5 | Polonium 218 ^m | 1.18 | J | n | pCi/g | 14-Jun-05 | 0.15 | 0.0905 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Potassium 40 | 23.2 | | | pCi/g | 14-Jun-05 | 3.3 | 0.8 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Protactinium 234 | -0.05 U | | | pCi/g | 14-Jun-05 | 0.14 | 0.24 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Radium 223 ⁿ | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Radium 224 ^o | 1.42 | | | pCi/g | 14-Jun-05 | 0.21 | 0.13 |
| HDRG71C4 | Soil | BRC-BCG-09C-0-0.5 | Radium 226 | 1.18 | J | n | pCi/g | 14-Jun-05 | 0.15 | 0.0905 |
| HDRG71C5 | Soil | BRC-BCG-09C-0-0.5 | Radium 228 | 2.49 | | | pCi/g | 14-Jun-05 | 0.27 | 0.57 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thallium 207 ^p | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thallium 208 | 0.51 | | | pCi/g | 14-Jun-05 | 0.13 | 0.09 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 227 | 0.18 U | | | pCi/g | 14-Jun-05 | 0.37 | 0.67 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 228 | 1.8 | | | pCi/g | 14-Jun-05 | 0.35 | 0.17 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 230 | 1.02 | | | pCi/g | 14-Jun-05 | 0.25 | 0.08 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 231 | 0.027 U | | | pCi/g | 14-Jun-05 | 0.046 | 0.036 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 232 | 1.72 | | | pCi/g | 14-Jun-05 | 0.33 | 0.05 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thorium 234 | 0.43 U | | | pCi/g | 14-Jun-05 | 0.57 | 1 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Uranium 233/234 | 0.95 J | U | b | pCi/g | 14-Jun-05 | 0.22 | 0.05 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Uranium 235 | 0.027 U | | | pCi/g | 14-Jun-05 | 0.046 | 0.036 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Uranium 238 | 0.78 J | J | k | pCi/g | 14-Jun-05 | 0.2 | 0.05 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Moisture (%) | 1.4 | | | percent | 14-Jun-05 | | |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Aluminum | 10200 NE | J | j | mg/kg | 14-Jun-05 | | 2 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Antimony | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.3298 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Arsenic | 3.5 | | | mg/kg | 14-Jun-05 | | 0.1278 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Barium | 283 NE | J | j | mg/kg | 14-Jun-05 | | 0.152 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Beryllium | 0.44 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Boron | 4.9 B | U | b | mg/kg | 14-Jun-05 | | 3.2 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Cadmium | N U | UJ- | e | mg/kg | 14-Jun-05 | | 0.1291 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Calcium | 23000 NE | J | j | mg/kg | 14-Jun-05 | | 1.028 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Chromium | 10.3 | | | mg/kg | 14-Jun-05 | | 0.1841 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Cobalt | 13.2 E | J | j | mg/kg | 14-Jun-05 | | 0.064 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|-------------------|---------------------------|---------------------|-------------------------|------|-------|-------------|------------------------|--------|
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Copper | 19.7 E | J | j | mg/kg | 14-Jun-05 | | 0.2205 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Iron | 17200 NE | J | j | mg/kg | 14-Jun-05 | | 1.173 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lead | 13.7 | | | mg/kg | 14-Jun-05 | | 0.0506 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Lithium | 11.3 | | | mg/kg | 14-Jun-05 | | 0.2425 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Magnesium | 10800 E | J | j | mg/kg | 14-Jun-05 | | 1.176 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Manganese | 766 NE | J | j | mg/kg | 14-Jun-05 | | 0.0131 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Mercury | 0.025 B | J | g | mg/kg | 14-Jun-05 | | 0.0072 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Molybdenum | 0.45 B | J | g | mg/kg | 14-Jun-05 | | 0.241 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Nickel | 19.6 E | J | j | mg/kg | 14-Jun-05 | | 0.1295 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Niobium | 1.7 BN | UJ- | b, e | mg/kg | 14-Jun-05 | | 1.015 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Palladium | 0.47 | | | mg/kg | 14-Jun-05 | | 0.0765 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Phosphorus | 1580 NE | J | j | mg/kg | 14-Jun-05 | | 1.913 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Platinum | U | | | mg/kg | 14-Jun-05 | | 0.0435 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Potassium | 1680 NE | J | j | mg/kg | 14-Jun-05 | | 2.079 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Selenium | U | | | mg/kg | 14-Jun-05 | | 0.1579 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Silicon | 555 NE | J | j | mg/kg | 14-Jun-05 | | 0.5289 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Silver | U | | | mg/kg | 14-Jun-05 | | 0.2609 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Sodium | 399 E | J | j | mg/kg | 14-Jun-05 | | 7.567 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Strontium | 217 N*E | J | j, d | mg/kg | 14-Jun-05 | | 0.0735 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Thallium | 1.6 | | | mg/kg | 14-Jun-05 | | 0.5428 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Tin | 0.76 B | J | g | mg/kg | 14-Jun-05 | | 0.187 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Titanium | 767 NE | J | j | mg/kg | 14-Jun-05 | | 0.1175 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Tungsten | 1.5 BE | UJ | b, j | mg/kg | 14-Jun-05 | | 0.0175 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Uranium | 0.98 B | J | g | mg/kg | 14-Jun-05 | | 0.038 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Vanadium | 48.8 NE | J | j | mg/kg | 14-Jun-05 | | 0.5535 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Zinc | 70.6 N | | | mg/kg | 14-Jun-05 | | 0.2207 |
| F5F160308023 | Soil | BRC-BCG-09C-0-0.5 | Zirconium | 137 NE | J | j | mg/kg | 14-Jun-05 | | 0.0874 |
| F5F170373023 | Water | RINSATE BLANK | Cr VI | U | | | ug/l | 16-Jun-05 | | 1.825 |
| F5F180132032 | Water | RINSATE BLANK | Cr VI | U | | | ug/l | 16-Jun-05 | | 1.825 |
| F5F170373023 | Water | RINSATE BLANK | Actinium 227 ^d | 3 U | | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Actinium 227 ^d | 11 U | | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Actinium 228 | -7 U | | | pCi/l | 16-Jun-05 | 28 | 57 |
| F5F180132031 | Water | RINSATE BLANK | Actinium 228 | 1 U | | | pCi/l | 16-Jun-05 | 28 | 57 |
| F5F170373023 | Water | RINSATE BLANK | Bismuth 210 ^e | -20 U | | | pCi/l | 16-Jun-05 | 130 | 250 |
| F5F180132031 | Water | RINSATE BLANK | Bismuth 210 ^e | 10 U | | | pCi/l | 16-Jun-05 | 130 | 260 |
| F5F170373023 | Water | RINSATE BLANK | Bismuth 211 ^f | 3 U | | | pCi/l | 16-Jun-05 | 70 | 130 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|---------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|-----|
| F5F180132031 | Water | RINSATE BLANK | Bismuth 211 ⁱ | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Bismuth 212 | -4 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F180132031 | Water | RINSATE BLANK | Bismuth 212 | 0.4 U | | pCi/l | 16-Jun-05 | 51 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Bismuth 214 | -3 U | | pCi/l | 16-Jun-05 | 14 | 27 |
| F5F180132031 | Water | RINSATE BLANK | Bismuth 214 | -1 U | | pCi/l | 16-Jun-05 | 17 | 32 |
| F5F170373023 | Water | RINSATE BLANK | Cobalt 57 | -2.1 U | | pCi/l | 16-Jun-05 | 4 | 6.9 |
| F5F180132031 | Water | RINSATE BLANK | Cobalt 57 | 0.4 U | | pCi/l | 16-Jun-05 | 3.1 | 5.6 |
| F5F170373023 | Water | RINSATE BLANK | Cobalt 60 | 3.3 U | | pCi/l | 16-Jun-05 | 8.7 | 20 |
| F5F180132031 | Water | RINSATE BLANK | Cobalt 60 | -2 U | | pCi/l | 16-Jun-05 | 12 | 24 |
| F5F170373023 | Water | RINSATE BLANK | Gross Alpha | 0.11 U | | pCi/l | 16-Jun-05 | 0.7 | 1.3 |
| F5F170373023 | Water | RINSATE BLANK | Gross Beta | 0.09 U | | pCi/l | 16-Jun-05 | 1.1 | 1.9 |
| F5F170373023 | Water | RINSATE BLANK | Lead 210 | -20 U | | pCi/l | 16-Jun-05 | 130 | 250 |
| F5F180132031 | Water | RINSATE BLANK | Lead 210 | 10 U | | pCi/l | 16-Jun-05 | 130 | 260 |
| F5F170373023 | Water | RINSATE BLANK | Lead 211 ^g | 3 U | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Lead 211 ^g | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Lead 212 | 14 U | | pCi/l | 16-Jun-05 | 11 | 23 |
| F5F180132031 | Water | RINSATE BLANK | Lead 212 | 2 U | | pCi/l | 16-Jun-05 | 10 | 20 |
| F5F170373023 | Water | RINSATE BLANK | Lead 214 | -2 U | | pCi/l | 16-Jun-05 | 13 | 24 |
| F5F180132031 | Water | RINSATE BLANK | Lead 214 | 11 U | | pCi/l | 16-Jun-05 | 16 | 33 |
| F5F170373023 | Water | RINSATE BLANK | Polonium 210 ^h | -20 U | | pCi/l | 16-Jun-05 | 130 | 250 |
| F5F180132031 | Water | RINSATE BLANK | Polonium 210 ^h | 10 U | | pCi/l | 16-Jun-05 | 130 | 260 |
| F5F170373023 | Water | RINSATE BLANK | Polonium 212 ⁱ | -2 U | | pCi/l | 16-Jun-05 | 34 | 67 |
| F5F180132031 | Water | RINSATE BLANK | Polonium 212 ⁱ | 0.2 U | | pCi/l | 16-Jun-05 | 33 | 65 |
| F5F170373023 | Water | RINSATE BLANK | Polonium 214 ^j | -3 U | | pCi/l | 16-Jun-05 | 14 | 27 |
| F5F180132031 | Water | RINSATE BLANK | Polonium 214 ^j | -1 U | | pCi/l | 16-Jun-05 | 17 | 32 |
| F5F170373023 | Water | RINSATE BLANK | Polonium 215 ^k | 3 U | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Polonium 215 ^k | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Polonium 216 ⁱ | 14 U | | pCi/l | 16-Jun-05 | 11 | 23 |
| F5F180132031 | Water | RINSATE BLANK | Polonium 216 ⁱ | 2 U | | pCi/l | 16-Jun-05 | 10 | 20 |
| F5F170373023 | Water | RINSATE BLANK | Potassium 40 | -2 U | | pCi/l | 16-Jun-05 | 110 | 230 |
| F5F180132031 | Water | RINSATE BLANK | Potassium 40 | 24 U | | pCi/l | 16-Jun-05 | 71 | 160 |
| F5F170373023 | Water | RINSATE BLANK | Protactinium 234 | -10 U | | pCi/l | 16-Jun-05 | 20 | 34 |
| F5F180132031 | Water | RINSATE BLANK | Protactinium 234 | 13 U | | pCi/l | 16-Jun-05 | 17 | 34 |
| F5F170373023 | Water | RINSATE BLANK | Radium 223 ⁿ | 3 U | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Radium 223 ⁿ | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Radium 224 ^o | 14 U | | pCi/l | 16-Jun-05 | 11 | 23 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|---------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|-------|
| F5F180132031 | Water | RINSATE BLANK | Radium 224 ^o | 2 U | | pCi/l | 16-Jun-05 | 10 | 20 |
| F5F170373023 | Water | RINSATE BLANK | Thallium 207 ^p | 3 U | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Thallium 207 ^p | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Thallium 208 | 3.3 U | | pCi/l | 16-Jun-05 | 7.4 | 15 |
| F5F180132031 | Water | RINSATE BLANK | Thallium 208 | 3.7 U | | pCi/l | 16-Jun-05 | 6.3 | 13 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 227 | 3 U | | pCi/l | 16-Jun-05 | 70 | 130 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 227 | 11 U | | pCi/l | 16-Jun-05 | 53 | 100 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 228 | 0.11 U | | pCi/l | | 0.19 | 0.27 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 228 | -0.01 U | | pCi/l | 16-Jun-05 | 0.093 | 0.18 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 230 | 0.37 J | | pCi/l | | 0.2 | 0.13 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 230 | 0.33 J | | pCi/l | 16-Jun-05 | 0.18 | 0.09 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 231 | 0.0576 U | | pCi/l | | 0.0999 | 0.078 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 231 | -0.01 U | | pCi/l | 16-Jun-05 | 0.096 | 0.21 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 232 | -0.004 U | | pCi/l | | 0.052 | 0.1 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 232 | 0.01 U | | pCi/l | 16-Jun-05 | 0.055 | 0.12 |
| F5F170373023 | Water | RINSATE BLANK | Thorium 234 | 21 U | | pCi/l | 16-Jun-05 | 73 | 140 |
| F5F180132031 | Water | RINSATE BLANK | Thorium 234 | -59 U | | pCi/l | 16-Jun-05 | 65 | 120 |
| F5F170373023 | Water | RINSATE BLANK | Uranium 233/234 | 0.039 U | | pCi/l | | 0.096 | 0.16 |
| F5F180132031 | Water | RINSATE BLANK | Uranium 233/234 | 0.36 J | | pCi/l | 16-Jun-05 | 0.24 | 0.24 |
| F5F170373023 | Water | RINSATE BLANK | Uranium 235 | 0.0576 U | | pCi/l | | 0.0999 | 0.078 |
| F5F180132031 | Water | RINSATE BLANK | Uranium 235 | -0.01 U | | pCi/l | 16-Jun-05 | 0.096 | 0.21 |
| F5F170373023 | Water | RINSATE BLANK | Uranium 238 | 0.052 U | | pCi/l | | 0.09 | 0.13 |
| F5F180132031 | Water | RINSATE BLANK | Uranium 238 | 0.17 J | | pCi/l | 16-Jun-05 | 0.15 | 0.16 |
| F5F170373023 | Water | RINSATE BLANK | Aluminum | 60.5 | | ug/l | 16-Jun-05 | | 8.509 |
| F5F180132031 | Water | RINSATE BLANK | Aluminum | 49.1 | | ug/l | 16-Jun-05 | | 8.509 |
| F5F170373023 | Water | RINSATE BLANK | Antimony | U | | ug/l | 16-Jun-05 | | 1.587 |
| F5F180132031 | Water | RINSATE BLANK | Antimony | U | | ug/l | 16-Jun-05 | | 1.587 |
| F5F170373023 | Water | RINSATE BLANK | Arsenic | U | | ug/l | 16-Jun-05 | | 1.33 |
| F5F180132031 | Water | RINSATE BLANK | Arsenic | U | | ug/l | 16-Jun-05 | | 1.33 |
| F5F170373023 | Water | RINSATE BLANK | Barium | 3.1 B | | ug/l | 16-Jun-05 | | 0.6 |
| F5F180132031 | Water | RINSATE BLANK | Barium | 3.9 B | | ug/l | 16-Jun-05 | | 0.6 |
| F5F170373023 | Water | RINSATE BLANK | Beryllium | U | | ug/l | 16-Jun-05 | | 0.18 |
| F5F180132031 | Water | RINSATE BLANK | Beryllium | U | | ug/l | 16-Jun-05 | | 0.18 |
| F5F170373023 | Water | RINSATE BLANK | Boron | 151 | | ug/l | 16-Jun-05 | | 5.5 |
| F5F180132031 | Water | RINSATE BLANK | Boron | 149 | | ug/l | 16-Jun-05 | | 5.5 |
| F5F170373023 | Water | RINSATE BLANK | Cadmium | U | | ug/l | 16-Jun-05 | | 0.864 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|---------------|------------|---------------------|-------------------------|------|-------------|------------------------|--------|
| F5F180132031 | Water | RINSATE BLANK | Cadmium | U | | ug/l | 16-Jun-05 | | 0.864 |
| F5F170373023 | Water | RINSATE BLANK | Calcium | 306 B | | ug/l | 16-Jun-05 | | 10.7 |
| F5F180132031 | Water | RINSATE BLANK | Calcium | 289 B | | ug/l | 16-Jun-05 | | 10.7 |
| F5F170373023 | Water | RINSATE BLANK | Chromium | U | | ug/l | 16-Jun-05 | | 1.91 |
| F5F180132031 | Water | RINSATE BLANK | Chromium | U | | ug/l | 16-Jun-05 | | 1.91 |
| F5F170373023 | Water | RINSATE BLANK | Cobalt | U | | ug/l | 16-Jun-05 | | 0.519 |
| F5F180132031 | Water | RINSATE BLANK | Cobalt | U | | ug/l | 16-Jun-05 | | 0.519 |
| F5F170373023 | Water | RINSATE BLANK | Copper | 18.7 | | ug/l | 16-Jun-05 | | 0.719 |
| F5F180132031 | Water | RINSATE BLANK | Copper | 25.4 | | ug/l | 16-Jun-05 | | 0.719 |
| F5F170373023 | Water | RINSATE BLANK | Iron | 43.7 B | | ug/l | 16-Jun-05 | | 12.6 |
| F5F180132031 | Water | RINSATE BLANK | Iron | 59.3 B | | ug/l | 16-Jun-05 | | 12.6 |
| F5F170373023 | Water | RINSATE BLANK | Lead | 1.3 B | | ug/l | 16-Jun-05 | | 1.62 |
| F5F180132031 | Water | RINSATE BLANK | Lead | U | | ug/l | 16-Jun-05 | | 1.62 |
| F5F170373023 | Water | RINSATE BLANK | Lithium | U | | ug/l | 16-Jun-05 | | 2.13 |
| F5F180132031 | Water | RINSATE BLANK | Lithium | U | | ug/l | 16-Jun-05 | | 2.13 |
| F5F170373023 | Water | RINSATE BLANK | Magnesium | 52.2 B | | ug/l | 16-Jun-05 | | 13 |
| F5F180132031 | Water | RINSATE BLANK | Magnesium | 42.4 B | | ug/l | 16-Jun-05 | | 13 |
| F5F170373023 | Water | RINSATE BLANK | Manganese | 3.9 B | | ug/l | 16-Jun-05 | | 0.544 |
| F5F180132031 | Water | RINSATE BLANK | Manganese | 4 B | | ug/l | 16-Jun-05 | | 0.544 |
| F5F170373023 | Water | RINSATE BLANK | Mercury | U | | ug/l | 16-Jun-05 | | 0.046 |
| F5F180132031 | Water | RINSATE BLANK | Mercury | U | | ug/l | 16-Jun-05 | | 0.046 |
| F5F170373023 | Water | RINSATE BLANK | Molybdenum | U | | ug/l | 16-Jun-05 | | 0.627 |
| F5F180132031 | Water | RINSATE BLANK | Molybdenum | U | | ug/l | 16-Jun-05 | | 0.627 |
| F5F170373023 | Water | RINSATE BLANK | Nickel | U | | ug/l | 16-Jun-05 | | 1.15 |
| F5F180132031 | Water | RINSATE BLANK | Nickel | U | | ug/l | 16-Jun-05 | | 1.15 |
| F5F170373023 | Water | RINSATE BLANK | Niobium | 20 B | | ug/l | 16-Jun-05 | | 7.643 |
| F5F180132031 | Water | RINSATE BLANK | Niobium | 13 B | | ug/l | 16-Jun-05 | | 7.643 |
| F5F170373023 | Water | RINSATE BLANK | Palladium | U | | ug/l | 16-Jun-05 | | 0.2258 |
| F5F180132031 | Water | RINSATE BLANK | Palladium | U | | ug/l | 16-Jun-05 | | 0.2258 |
| F5F170373023 | Water | RINSATE BLANK | Phosphorus | U | | ug/l | 16-Jun-05 | | 21.5 |
| F5F180132031 | Water | RINSATE BLANK | Phosphorus | U | | ug/l | 16-Jun-05 | | 21.5 |
| F5F170373023 | Water | RINSATE BLANK | Platinum | 0.11 B | | ug/l | 16-Jun-05 | | 0.1 |
| F5F180132031 | Water | RINSATE BLANK | Platinum | U | | ug/l | 16-Jun-05 | | 0.1 |
| F5F170373023 | Water | RINSATE BLANK | Potassium | 30.4 B | | ug/l | 16-Jun-05 | | 18 |
| F5F180132031 | Water | RINSATE BLANK | Potassium | 30.4 B | | ug/l | 16-Jun-05 | | 18 |
| F5F170373023 | Water | RINSATE BLANK | Selenium | U | | ug/l | 16-Jun-05 | | 1.828 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|--------|
| F5F180132031 | Water | RINSATE BLANK | Selenium | U | | ug/l | 16-Jun-05 | | 1.828 |
| F5F170373023 | Water | RINSATE BLANK | Silicon | 2390 N | | ug/l | 16-Jun-05 | | 4.93 |
| F5F180132031 | Water | RINSATE BLANK | Silicon | 2270 N | | ug/l | 16-Jun-05 | | 4.93 |
| F5F170373023 | Water | RINSATE BLANK | Silver | U | | ug/l | 16-Jun-05 | | 2.21 |
| F5F180132031 | Water | RINSATE BLANK | Silver | U | | ug/l | 16-Jun-05 | | 2.21 |
| F5F170373023 | Water | RINSATE BLANK | Sodium | 508 B | | ug/l | 16-Jun-05 | | 380 |
| F5F180132031 | Water | RINSATE BLANK | Sodium | 765 B | | ug/l | 16-Jun-05 | | 380 |
| F5F170373023 | Water | RINSATE BLANK | Strontium | 1.5 B | | ug/l | 16-Jun-05 | | 0.5338 |
| F5F180132031 | Water | RINSATE BLANK | Strontium | 1.4 B | | ug/l | 16-Jun-05 | | 0.5338 |
| F5F170373023 | Water | RINSATE BLANK | Thallium | U | | ug/l | 16-Jun-05 | | 2.5 |
| F5F180132031 | Water | RINSATE BLANK | Thallium | U | | ug/l | 16-Jun-05 | | 2.5 |
| F5F170373023 | Water | RINSATE BLANK | Tin | U | | ug/l | 16-Jun-05 | | 6.2 |
| F5F180132031 | Water | RINSATE BLANK | Tin | U | | ug/l | 16-Jun-05 | | 6.2 |
| F5F170373023 | Water | RINSATE BLANK | Titanium | 4.2 B | | ug/l | 16-Jun-05 | | 0.7 |
| F5F180132031 | Water | RINSATE BLANK | Titanium | 3.1 B | | ug/l | 16-Jun-05 | | 0.7 |
| F5F170373023 | Water | RINSATE BLANK | Tungsten | 6.5 BN | | ug/l | 16-Jun-05 | | 0.884 |
| F5F180132031 | Water | RINSATE BLANK | Tungsten | 2.5 BN | | ug/l | 16-Jun-05 | | 0.884 |
| F5F170373023 | Water | RINSATE BLANK | Uranium | U | | ug/l | 16-Jun-05 | | 0.1256 |
| F5F180132031 | Water | RINSATE BLANK | Uranium | U | | ug/l | 16-Jun-05 | | 0.1256 |
| F5F170373023 | Water | RINSATE BLANK | Vanadium | 13.5 | | ug/l | 16-Jun-05 | | 1.627 |
| F5F180132031 | Water | RINSATE BLANK | Vanadium | 7.9 B | | ug/l | 16-Jun-05 | | 1.627 |
| F5F170373023 | Water | RINSATE BLANK | Zinc | 12.2 B | | ug/l | 16-Jun-05 | | 1.18 |
| F5F180132031 | Water | RINSATE BLANK | Zinc | 14.7 B | | ug/l | 16-Jun-05 | | 1.18 |
| F5F170373023 | Water | RINSATE BLANK | Zirconium | U | | ug/l | 16-Jun-05 | | 0.608 |
| F5F180132031 | Water | RINSATE BLANK | Zirconium | U | | ug/l | 16-Jun-05 | | 0.608 |
| F5F210233018 | Water | RINSATE BLANK-RB | Cr VI | U | | ug/l | 17-Jun-05 | | 1.825 |
| F5F210233018 | Water | RINSATE BLANK-RB | Actinium 227 ^d | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Actinium 228 | -4 U | | pCi/l | 17-Jun-05 | 34 | 68 |
| F5F210233018 | Water | RINSATE BLANK-RB | Bismuth 210 ^e | -50 U | | pCi/l | 17-Jun-05 | 140 | 250 |
| F5F210233018 | Water | RINSATE BLANK-RB | Bismuth 211 ^f | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Bismuth 212 | 36 U | | pCi/l | 17-Jun-05 | 66 | 140 |
| F5F210233018 | Water | RINSATE BLANK-RB | Bismuth 214 | 2 U | | pCi/l | 17-Jun-05 | 17 | 32 |
| F5F210233018 | Water | RINSATE BLANK-RB | Cobalt 57 | 0.3 U | | pCi/l | 17-Jun-05 | 3.7 | 6.8 |
| F5F210233018 | Water | RINSATE BLANK-RB | Cobalt 60 | 0.1 U | | pCi/l | 17-Jun-05 | 6.6 | 15 |
| F5F210233018 | Water | RINSATE BLANK-RB | Gross Alpha | 0.81 U | | pCi/l | 17-Jun-05 | 0.7 | 1.1 |
| F5F210233018 | Water | RINSATE BLANK-RB | Gross Beta | 0.2 U | | pCi/l | 17-Jun-05 | 1.1 | 1.8 |

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|---------------------------|---------------------|-------------------------|-------|-------------|------------------------|-------|
| F5F210233018 | Water | RINSATE BLANK-RB | Lead 210 | -50 U | | pCi/l | 17-Jun-05 | 140 | 250 |
| F5F210233018 | Water | RINSATE BLANK-RB | Lead 211 ^g | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Lead 212 | 15 U | | pCi/l | 17-Jun-05 | 12 | 24 |
| F5F210233018 | Water | RINSATE BLANK-RB | Lead 214 | -5 U | | pCi/l | 17-Jun-05 | 15 | 26 |
| F5F210233018 | Water | RINSATE BLANK-RB | Polonium 210 ^h | -50 U | | pCi/l | 17-Jun-05 | 140 | 250 |
| F5F210233018 | Water | RINSATE BLANK-RB | Polonium 212 ⁱ | 23 U | | pCi/l | 17-Jun-05 | 42 | 88 |
| F5F210233018 | Water | RINSATE BLANK-RB | Polonium 214 ^j | 2 U | | pCi/l | 17-Jun-05 | 17 | 32 |
| F5F210233018 | Water | RINSATE BLANK-RB | Polonium 215 ^k | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Polonium 216 ^l | 15 U | | pCi/l | 17-Jun-05 | 12 | 24 |
| F5F210233018 | Water | RINSATE BLANK-RB | Potassium 40 | -50 U | | pCi/l | 17-Jun-05 | 100 | 200 |
| F5F210233018 | Water | RINSATE BLANK-RB | Protactinium 234 | -5 U | | pCi/l | 17-Jun-05 | 19 | 34 |
| F5F210233018 | Water | RINSATE BLANK-RB | Radium 223 ⁿ | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Radium 224 ^o | 15 U | | pCi/l | 17-Jun-05 | 12 | 24 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thallium 207 ^p | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thallium 208 | 2.6 U | | pCi/l | 17-Jun-05 | 8.3 | 17 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 227 | -16 U | | pCi/l | 17-Jun-05 | 68 | 120 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 228 | 0.065 U | | pCi/l | 17-Jun-05 | 0.087 | 0.12 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 230 | 0.2 J | | pCi/l | 17-Jun-05 | 0.13 | 0.05 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 231 | 0.02 U | | pCi/l | 17-Jun-05 | 0.11 | 0.21 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 232 | 0 U | | pCi/l | 17-Jun-05 | 0 | 0.05 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thorium 234 | 25 U | | pCi/l | 17-Jun-05 | 68 | 140 |
| F5F210233018 | Water | RINSATE BLANK-RB | Uranium 233/234 | 0.16 U | | pCi/l | 17-Jun-05 | 0.19 | 0.24 |
| F5F210233018 | Water | RINSATE BLANK-RB | Uranium 235 | 0.02 U | | pCi/l | 17-Jun-05 | 0.11 | 0.21 |
| F5F210233018 | Water | RINSATE BLANK-RB | Uranium 238 | 0.2 J | | pCi/l | 17-Jun-05 | 0.16 | 0.16 |
| F5F210233018 | Water | RINSATE BLANK-RB | Aluminum | 239 | | ug/l | 17-Jun-05 | | 8.509 |
| F5F210233018 | Water | RINSATE BLANK-RB | Antimony | U | | ug/l | 17-Jun-05 | | 1.587 |
| F5F210233018 | Water | RINSATE BLANK-RB | Arsenic | 1.7 B | | ug/l | 17-Jun-05 | | 1.33 |
| F5F210233018 | Water | RINSATE BLANK-RB | Barium | 9.6 B | | ug/l | 17-Jun-05 | | 0.6 |
| F5F210233018 | Water | RINSATE BLANK-RB | Beryllium | U | | ug/l | 17-Jun-05 | | 0.18 |
| F5F210233018 | Water | RINSATE BLANK-RB | Boron | 150 | | ug/l | 17-Jun-05 | | 5.5 |
| F5F210233018 | Water | RINSATE BLANK-RB | Cadmium | U | | ug/l | 17-Jun-05 | | 0.864 |
| F5F210233018 | Water | RINSATE BLANK-RB | Calcium | 1890 B | | ug/l | 17-Jun-05 | | 10.7 |
| F5F210233018 | Water | RINSATE BLANK-RB | Chromium | 1.6 B | | ug/l | 17-Jun-05 | | 1.91 |
| F5F210233018 | Water | RINSATE BLANK-RB | Cobalt | U | | ug/l | 17-Jun-05 | | 0.519 |
| F5F210233018 | Water | RINSATE BLANK-RB | Copper | 76.8 | | ug/l | 17-Jun-05 | | 0.719 |
| F5F210233018 | Water | RINSATE BLANK-RB | Iron | 230 | | ug/l | 17-Jun-05 | | 12.6 |

**TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--------|------------------|------------|---------------------|-------------------------|------|-------------|------------------------|--------|
| F5F210233018 | Water | RINSATE BLANK-RB | Lead | 6 | | ug/l | 17-Jun-05 | | 1.62 |
| F5F210233018 | Water | RINSATE BLANK-RB | Lithium | U | | ug/l | 17-Jun-05 | | 2.13 |
| F5F210233018 | Water | RINSATE BLANK-RB | Magnesium | 173 B | | ug/l | 17-Jun-05 | | 13 |
| F5F210233018 | Water | RINSATE BLANK-RB | Manganese | 15.4 | | ug/l | 17-Jun-05 | | 0.544 |
| F5F210233018 | Water | RINSATE BLANK-RB | Mercury | U | | ug/l | 17-Jun-05 | | 0.046 |
| F5F210233018 | Water | RINSATE BLANK-RB | Molybdenum | U | | ug/l | 17-Jun-05 | | 0.627 |
| F5F210233018 | Water | RINSATE BLANK-RB | Nickel | 1.2 B | | ug/l | 17-Jun-05 | | 1.15 |
| F5F210233018 | Water | RINSATE BLANK-RB | Niobium | 8.9 B | | ug/l | 17-Jun-05 | | 7.643 |
| F5F210233018 | Water | RINSATE BLANK-RB | Palladium | U | | ug/l | 17-Jun-05 | | 0.2258 |
| F5F210233018 | Water | RINSATE BLANK-RB | Phosphorus | 45.9 B | | ug/l | 17-Jun-05 | | 21.5 |
| F5F210233018 | Water | RINSATE BLANK-RB | Platinum | U | | ug/l | 17-Jun-05 | | 0.1 |
| F5F210233018 | Water | RINSATE BLANK-RB | Potassium | 92.5 B | | ug/l | 17-Jun-05 | | 18 |
| F5F210233018 | Water | RINSATE BLANK-RB | Selenium | 2.2 B | | ug/l | 17-Jun-05 | | 1.828 |
| F5F210233018 | Water | RINSATE BLANK-RB | Silicon | 2040 N | | ug/l | 17-Jun-05 | | 4.93 |
| F5F210233018 | Water | RINSATE BLANK-RB | Silver | U | | ug/l | 17-Jun-05 | | 2.21 |
| F5F210233018 | Water | RINSATE BLANK-RB | Sodium | 1780 B | | ug/l | 17-Jun-05 | | 380 |
| F5F210233018 | Water | RINSATE BLANK-RB | Strontium | 6.7 B | | ug/l | 17-Jun-05 | | 0.5338 |
| F5F210233018 | Water | RINSATE BLANK-RB | Thallium | U | | ug/l | 17-Jun-05 | | 2.5 |
| F5F210233018 | Water | RINSATE BLANK-RB | Tin | U | | ug/l | 17-Jun-05 | | 6.2 |
| F5F210233018 | Water | RINSATE BLANK-RB | Titanium | 8 B | | ug/l | 17-Jun-05 | | 0.7 |
| F5F210233018 | Water | RINSATE BLANK-RB | Tungsten | 6.6 BN | | ug/l | 17-Jun-05 | | 0.884 |
| F5F210233018 | Water | RINSATE BLANK-RB | Uranium | 0.49 B | | ug/l | 17-Jun-05 | | 0.1256 |
| F5F210233018 | Water | RINSATE BLANK-RB | Vanadium | U | | ug/l | 17-Jun-05 | | 1.627 |
| F5F210233018 | Water | RINSATE BLANK-RB | Zinc | 69.9 | | ug/l | 17-Jun-05 | | 1.18 |
| F5F210233018 | Water | RINSATE BLANK-RB | Zirconium | U | | ug/l | 17-Jun-05 | | 0.608 |

Notes:

- B Indicates that results are less than the practical quantitation limit.
- CEC Cation exchange capacity
- Cr VI Hexavalent chromium
- E Indicates that the laboratory QC limits for serial dilution were not met.
- J Indicates that the laboratory qualified the result as estimated.
- meq/100g Milliequivalent per 100 gram
- mg/kg Milligram per kilogram
- N Indicates that laboratory QC limits for matrix spike accuracy were not met.

**TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY**

| Laboratory ID | Matrix | Sample ID | Analyte | Result ^a | Validation ^b | Unit | Sample Date | Rad Error ^c | SQL |
|---------------|--|-----------|---------|---------------------|-------------------------|------|-------------|------------------------|-----|
| pCi/g | PicoCurie per gram | | | | | | | | |
| pCi/L | PicoCurie per liter | | | | | | | | |
| SQL | Sample quantitation limit; equivalent to the method detection limit corrected for sample preparation factors and moisture content. | | | | | | | | |
| U | The analyte was undetected in the sample. | | | | | | | | |
| ug/L | Microgram per liter | | | | | | | | |

- a If the result cell has no numerical value and the qualifier "U", then the analyte was undetected at the sample quantitation limit listed under "SQL." The result includes the numerical value and the qualifier(s) as reported by the laboratory; validation qualifiers supersede laboratory qualifiers. Laboratory result qualifiers are defined in the notes above; while the validation qualifiers and codes are defined in Table C-3.
- b Validation qualifiers and comments codes are defined in Table C-3.
- c Rad error represents the 2-sigma error applicable to radionuclide results only.
- d Actinium 227 assumes equilibrium w/ Th-227; quantified from Th-227.
- e Bismuth 210 assumes equilibrium w/ Pb-210; quantified from Pb-210.
- f Bismuth 211 assumes equilibrium w/ Th-227; quantified from Th-227.
- g Lead 211 assumes equilibrium w/ Th-227; quantified from Th-227.
- h Polonium 210 assumes equilibrium w/ Bi-210; quantified from Bi-210.
- i Polonium 212 assumes equilibrium w/ Bi-212; quantified from Bi-212.
- j Polonium 214 assumes equilibrium w/ Bi-214; quantified from Bi-214.
- k Polonium 215 assumes equilibrium w/ Th-227; quantified from Th-227.
- l Polonium 216 assumes equilibrium w/ Ra-224; quantified from Ra-224.
- m Polonium 218 assumes equilibrium w/ Ra-226; quantified from Ra-226.
- n Radium 223 assumes equilibrium w/ Th-227; quantified from Th-227.
- o Radium 224 assumes equilibrium w/ Pb-212; quantified from Pb-212.
- p Thallium 207 assumes equilibrium w/ Th-227; quantified from Th-227.

TABLE C-3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Validation Qualifier | Definition |
|-----------------------------|--|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| UJ | The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise. |
| J | The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample. |
| R | The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample. |
| X | Result is not used for reporting because a more accurate and precise results is reported in its place. |
| + | Estimated results are possibly biased high based on associated quality control |
| - | Estimated results are possibly biased low based on associated quality control |
| Comment Code | Definition |
| a | Surrogate recovery exceeded |
| b | Laboratory method blank and common blank contamination |
| c | Calibration criteria exceeded |
| d | Duplicate precision criteria exceeded |
| e | Matrix spike or laboratory control sample recovery exceeded |
| f | Field blank contamination |
| g | Quantification below practical quantitation limit for stable chemistries |
| h | Holding time exceeded |
| i | Internal standard criteria exceeded |
| j | Other stable chemistry qualification (for example, serial dilution exceedances) |
| k | Radiochemistry quantitation issue (for example, result less than the required reporting limit) |
| l | Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy) |
| m | Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis) |
| n | Radiochemistry tracer yield criteria exceeded |
| o | Other radiochemistry qualification (for example, biases due to interference from other radioisotopes) |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 2.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 5.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.3 | 8.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.7 | 10 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.1 | 11.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 20 | 14 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 31 | 17.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 33.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 46 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 47.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 50.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 55.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 61.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 67.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 75.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 86.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 8.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 8.1 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 88.4 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 21.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 24.2 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 12.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 25.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 11.8 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01A-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 1.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 2.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.7 | 3.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.2 | 4.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.8 | 5.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 7.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 8.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 18.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 24.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 26.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 30 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 36.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 45.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 58.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 96.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 23 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 233 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 17.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 22.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 15 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 85 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1230 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 10.9 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01A-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 4.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 6.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 7.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.6 | 9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 11.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 13.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 22.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 29.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 31 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 35 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 42.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 52.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 67.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 86.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 6.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.6 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1990 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 13.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 25 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 3.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 16 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2140 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3110 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 9.5 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01A-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.3 | | none |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 5.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.1 | 8.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.8 | 10.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12 | 12.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 20 | 15.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 30 | 19.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 40.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 56.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 58.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 61.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 65.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 71.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 77.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 86.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 94.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 8.6 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 9.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 124 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 25.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 13.1 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 11.6 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 31.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 85.1 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3360 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 11.9 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01B-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 3.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 5.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.9 | 6.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 7.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 8.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 11.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 20.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 27.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 28.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 32.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 38.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 47.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 58.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 80.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 95.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5.2 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 22.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 498 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 17.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 19.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 19.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 3.8 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 15.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99.2 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1640 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 9.8 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01B-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 3.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 4.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.2 | 6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.4 | 8.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 10.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 33 | 12 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 18.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 24.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 25.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 29.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 35.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 44.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 60 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 80.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 91.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10.2 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 6 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.2 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 2990 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 16.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 19.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 24.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 3.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8 | | none |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 12.7 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01B-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3180 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 5.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 5.9 | 11.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 7.8 | 15.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 10.7 | 19.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 18 | 22.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 26 | 25.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 45.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 59.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 61.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 64.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 69.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 75 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 81.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 87 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 92.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 6.6 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 11.7 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 6 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 133 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 24 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 13 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 11.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 33.6 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 7780 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 1.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 2.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 2.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13 | 3.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 4.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 5.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 12.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 17.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 19.5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 23.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 30.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 42.8 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 59.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 81.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 98.7 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10.9 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 22.1 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 346 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 17.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 18.7 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 28.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 3.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.5 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.9 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 777 | | mg/Kg |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.1 | 3.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.5 | 5 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.8 | 5.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.5 | 7.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 8.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 33 | 10.1 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 16.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 22.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 24.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 28.2 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 35.3 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 46.4 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 61.6 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 82 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 98.9 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 12.5 | | meq/100g |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 5 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 2840 | | umhos/cm |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 18.4 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 18 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 3.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8 | | none |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.8 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.3 | | % |
| McCullough | BKG-01 | BRC-BKG-01C-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1770 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 5.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6 | 8.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.7 | 10.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 11.9 | 11.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 20 | 13.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 31 | 16.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 25.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 31.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 33.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 36.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 41.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 50 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 60.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 79.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 95.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 8.5 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 150 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 15.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 20.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 18.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 17.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1670 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 7.6 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02A-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 2.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 3.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 4.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.9 | 5.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 6.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 35 | 7.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 15.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 23.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 27.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 34.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 45.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 58.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 76.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 92 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 18.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1210 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 23.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 23.5 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 3.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 11.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 511 | U | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 12.1 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02A-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 3.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9 | 5.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.8 | 6.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 10.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 17.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 24.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 26.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 31.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 39 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 49.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 62.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 96 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 451 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 21.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 23.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 12.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 608 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 13.6 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02A-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 4.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.4 | 7.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.6 | 8.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.3 | 9.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 11.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 32 | 13.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 24.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 30.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 32.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 36.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 43 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 52.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 62.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 82 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 93.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 7.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 253 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 18.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 19.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 17.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.5 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 973 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 13.7 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02B-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 3.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 4.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.9 | 5.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 6.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 7.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 9.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 18.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 24.4 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 26.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 30.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 37.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 47.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 59.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 80.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 93.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 4.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 21.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 893 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 19.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 21.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 13.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 511 | U | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 16.5 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02B-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 3.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.4 | 5.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.7 | 6.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.6 | 7.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 8.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 11.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 20.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 27.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 29.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 33.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 41 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 52.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 65.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 85 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 98.8 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5.5 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 712 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 20.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 15 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 24.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 14.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98 | | % |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 720 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 11.3 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02B-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.3 | | none |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 4.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.2 | 7.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.8 | 9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.2 | 10 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 11.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 32 | 12.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 23.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 28 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 29 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 31.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 35.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 41.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 49.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 74.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 97.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 7.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 24.9 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 109 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 11.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 25.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 14.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 16.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1180 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 8.3 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02C-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 3.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.7 | 4.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.2 | 5.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 6.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 8.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 9.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 19.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 25.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 27.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 31.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 39.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 49.8 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 61.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 78.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 91.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 4.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 17.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 622 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 21.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 22.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 3.6 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 14.5 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.1 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 515 | U | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 10.4 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02C-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 1.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 2.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 3.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.3 | 4.1 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 13.1 | 4.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 5.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 35 | 7.5 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 16.4 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 22.2 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 24 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 27.9 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 34.7 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 44.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 56.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 80.6 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 97.3 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 24.3 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 796 | | umhos/cm |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 18.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 19.4 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 21.7 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.8 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 13.2 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.9 | | % |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 586 | | mg/Kg |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 9.6 | | meq/100g |
| McCullough | BKG-02 | BRC-BKG-02C-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.3 | | none |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 4.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.6 | 6.5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.8 | 7.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.6 | 8.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 10.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 13.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 32.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 48.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 50.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 54.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 59.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 66.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 74.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 85.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 94.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 6.5 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 10.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 85.5 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 26.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 14.8 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 15.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 26.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1520 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 14.8 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03A-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 2.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 3.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.4 | 5.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.9 | 7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.4 | 8.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 10.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 32 | 12.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 22.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 31 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 33.8 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-----------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 38.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 45.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 55.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 67 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 83.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 96.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 16.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 691 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 23 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 16.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 21.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 3 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 17.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1070 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 8.6 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03A-3-7 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 1.3 | 2.6 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 3.1 | 4.1 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 6.5 | 5.7 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 8.9 | 7.3 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 12.5 | 8.3 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 21 | 9.8 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 33 | 12.4 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 75 | 22.4 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 150 | 30.8 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 180 | 33.5 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 250 | 38.2 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 425 | 45.6 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 850 | 55.3 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 2000 | 66.5 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 4750 | 81.4 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 9500 | 90.8 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Clay | 5.7 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Coarse Sand | 14.9 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | SW9050 | Texture | Conductivity | 680 | | umhos/cm |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Fine Sand | 23.2 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Gravel | 18.6 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Medium Sand | 20.9 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D2216 | Solids | Moisture Content | 2.6 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D422 | Texture | Silt | 16.7 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | D2216 | Solids | Solids, Percent | 97.4 | | % |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 932 | | mg/Kg |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | SW9081 | CEC | CEC | 9.6 | | meq/100g |
| McCullough | BKG-03 | BRC-BCG-03A-3-7 | FD | 6/16/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 2.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 3.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.6 | 7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 7.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 9.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 17 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 23.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 27.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 34 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 45.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 63.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 88.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 25.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 754 | | umhos/cm |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 17 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 11.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 29.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.9 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 12 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 881 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 17.1 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03A-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 2.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 3.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.2 | 5.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 6.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.5 | 7.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 8.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 11.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 26.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 36.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 38.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 42.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 47.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 56.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 67.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 96.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 14.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 82.2 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 21.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 19.9 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 21.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99.1 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1610 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 9.7 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03B-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 2.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 3.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.9 | 4.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 5.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 8.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 18.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 28.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 31.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 37.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 45.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 55.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 66.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 79.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 90.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 12.9 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 2170 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 27.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 20.5 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 20.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 15 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 95.8 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 703 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 12.3 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03B-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 3.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 3.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.9 | 5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 5.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 6.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 8.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 16.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 23.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 27.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 33.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 43.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 58.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 97.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 22.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 2910 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 17.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.5 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 25.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.5 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 12.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2190 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 16.1 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03B-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8 | | none |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 3.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3 | 6.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.2 | 8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.5 | 8.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 12 | 10.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 20 | 12.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 31 | 15.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 33 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 44.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 47.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 51.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 57.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 65 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 72.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 82 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 90.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 8 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 9.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 87.5 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 24.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 15.2 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 2.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 25 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1930 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 7.3 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03C-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.5 | 4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.8 | 4.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.8 | 5.5 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 7.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 9.1 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 17.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 24.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 27.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 32.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 39.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 49.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 61 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 79 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 89.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 18 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1330 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 22.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 21 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 21.1 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 13.8 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.7 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 543 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 9 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03C-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 2.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.4 | 3.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 4.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.8 | 4.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 6.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 8.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 16.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.9 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 23.8 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 27.2 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 33.3 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 42.7 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 56.6 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 80 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 94.4 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 23.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 2230 | | umhos/cm |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 17 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 20 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 23.3 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 5.8 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 12.9 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 95.4 | | % |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2700 | | mg/Kg |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 13.7 | | meq/100g |
| McCullough | BKG-03 | BRC-BKG-03C-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8 | | none |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.7 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.4 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.3 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 1.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 12.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 16.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 18.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 23.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 38.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 45 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 61.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 78.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 92.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 18.4 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 1.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 17.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 37.3 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 26 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 21.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 23 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 10.8 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 579 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.3 | 4.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 6.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.6 | 7.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.1 | 9.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.8 | 9.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 10.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 35 | 12.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 19.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 24.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 25.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 29.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 36.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 40.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 51 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 66.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 81.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 14.9 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 7.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 15.7 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 74 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 16.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 33.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 14.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 12 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 95.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 824 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.3 | 4.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 7.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.4 | 10.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9 | 12.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.4 | 14.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 21 | 17.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 32 | 21.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 30.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 36.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 38.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 42.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 49.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 58.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 72.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 90.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 15.6 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 10.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 17.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 143 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 18.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 9.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 22.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 9.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 19.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 79.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04A-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3040 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 1.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.7 | 1.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.3 | 1.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.3 | 1.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 2.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 2.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 11.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 14.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 15.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 19.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 26.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 40.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 57.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 80.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 95.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 17.4 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 1.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 23.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 41.2 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 15.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 19.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 30.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 4 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 9.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 98.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 901 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 2.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.4 | 3.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.2 | 3.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 13 | 4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 5.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 31 | 15.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 16.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 21.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 22.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 26.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 32.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 42.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 54 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 74.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 88.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 19.4 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 3.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 20.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 95.3 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 15.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 25.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 21.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 9.1 | | none |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 13.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 94.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1980 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 2.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 5.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.6 | 7.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.8 | 8.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.5 | 9.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 21 | 13.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 33 | 14.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 24.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 31.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 33.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 38.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 45.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 56.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 69.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 85.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 95.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 13.2 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 7.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 15.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 273 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 21.1 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 14.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 23.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 22.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 17.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 82 | | % |
| McCullough | BKG-04 | BRC-BKG-04B-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2050 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 2.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 3.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.4 | 3.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.5 | 3.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.2 | 3.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 5.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 6.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 13.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 17.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 18.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 21.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 27.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 34.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 46.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 77.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 98.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 16.3 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 3.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 30.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 47.9 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 14 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 22.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 18.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.8 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 10.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 98.8 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04C-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1360 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04C1-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 15.3 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04C1-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 4.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 6.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.4 | 7.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.9 | 9.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.6 | 10.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 12 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 34 | 13.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 21.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 27 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 28.7 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 32.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 39.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 48.3 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 60 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 74.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 92.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 14.7 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 7.7 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 14.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 85 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 18.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 25.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 20.1 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.9 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 13.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 96 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 852 | | mg/Kg |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.3 | 3.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 6.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.4 | 8.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.7 | 9.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.4 | 10.8 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 21 | 13.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 32 | 15.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 18.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 23.1 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 24.6 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 28.2 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 34.5 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 42.9 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 54 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 76.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 96.4 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 10 | J | meq/100g |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 8.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 22.3 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 197 | | umhos/cm |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 16.4 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 23.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 19.5 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 21.2 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 9.6 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 80.7 | | % |
| McCullough | BKG-04 | BRC-BKG-04C-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 747 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.7 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.2 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.4 | 1.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 1.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 13.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 19.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 21 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 25.5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 34.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 45.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 57 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 81.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 97.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 15.9 | J | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 1.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 24.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 44.3 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 18.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 23 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 12.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 98.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 834 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 7.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.1 | 11.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.1 | 15.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.7 | 17.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.1 | 19.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 20 | 24 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 31 | 28.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 39.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 46.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 48.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 52.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 59.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 67.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 77 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 90.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 98.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 18.4 | J | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 15.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 13.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 114 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 9.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 17.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 10.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 23.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 89.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05A-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 879 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 2.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.7 | 3.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.4 | 3.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.2 | 4.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 5.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 7.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 18.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 23.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 25.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 29.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 38.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 48 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 62.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 80.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 94.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 15.4 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 17.9 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 65.6 | | umhos/cm |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 20.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 19.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 23.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 15.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1860 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 2.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.9 | 2.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.5 | 3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.4 | 3.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 36 | 4.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 11.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 12.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 16.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 26 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 36.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 52.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 74.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 91.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 14.5 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 22.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 103 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 25.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 21.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 4.5 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 92.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 649 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 3.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 5.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.2 | 6.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.6 | 7.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 9.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 33 | 12 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 20.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 25.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 27.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 31.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 40.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 48.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 62.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 79.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 87.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 94.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 15.7 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 5.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 16.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 494 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 20.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 22.3 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 6.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 14.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05AR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 93.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 566 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 0.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 1.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.9 | 1.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.4 | 1.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.3 | 1.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 1.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 2.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 10.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 15.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 16.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 21.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 30.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 45.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 59.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 77.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 90.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 15.5 | J | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 1.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 18.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 38 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 22.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 28.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 9.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 99.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05B-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1910 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 1.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 2.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.6 | 2.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.4 | 3.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 4.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 36 | 5.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 19 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 25.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 26.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 31.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 41.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 53.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 69 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 88 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 96.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 17.3 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 19.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 73 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 22.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 12 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 27.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 2.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 16.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2370 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 2.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.7 | 2.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.3 | 3.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.4 | 3.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 4.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 36 | 5.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 11.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 14.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 15.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 18.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 23.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 31.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 47.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 72.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 89.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 15.9 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 25.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 105 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 12.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 27.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 23.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 6.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 9.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 526 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.7 | 3.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.2 | 4.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.2 | 4.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 6.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 8.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 15.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 20.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 21.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 26 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 35.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 43.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 58.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 78.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 95.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 14.2 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.9 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 402 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 20.2 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 21.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 23 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05BR-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 592 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 1.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.5 | 2.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.4 | 2.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.2 | 3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 3.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 35 | 4.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 14.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 20.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 22.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 26.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 33.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 42.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 53.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 78.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 96 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 19.2 | J | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 2.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 25.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 83.7 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 19.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 21.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 19.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.3 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 12.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 82.9 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|--------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05C-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 875 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.8 | 2.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.3 | 3.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.3 | 3.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 5.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 19.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 25.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 27.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 31.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 41.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 53.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 69.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 90.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 98.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 17.3 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 75.5 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 21.9 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 9.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 28.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 16.9 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3230 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3880 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05CR-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 70900 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 3.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 4.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 4.8 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.2 | 5.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 6.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 14.8 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 19 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 20.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 23.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 31.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 41.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 57 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 78.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 91.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 17.4 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 4.3 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 21.3 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 147 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 16.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 21.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 25.7 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 7.2 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 94.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1130 | | mg/Kg |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 4.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 6.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.2 | 9.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.8 | 11.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.3 | 13.2 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 15.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 32 | 18.6 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 25.7 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 31.4 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 33 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 37.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 44.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 53.3 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 66.1 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 82.9 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 96.5 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 8.7 | | meq/100g |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 9.4 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 16.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 526 | | umhos/cm |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 18.8 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 17.1 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 21.6 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 16.3 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.5 | | % |
| McCullough | BKG-05 | BRC-BKG-05CR-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 743 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 4.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.4 | 7.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.8 | 9.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.2 | 12 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 20 | 15.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 31 | 19.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 36.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 52.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 55.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 61.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 69.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 77.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 84.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 91 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 97.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 7.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 6.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 1020 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 33.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 9 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 14.6 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 28.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1000 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1070 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06A-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 60600 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 3.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 6.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.1 | 7.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.6 | 8.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 10.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 34 | 11.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 18.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 23.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 25.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 28.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 35.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 44.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 57.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 77.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 93.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 6.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 19.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 2340 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 16.8 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 22.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 22.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 12.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96.5 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1450 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 3.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 7.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.1 | 8.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.5 | 9.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 11.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 33 | 14.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 21.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 27.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 29.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 33.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 39.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 49.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 62.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 79.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 96.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 7.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 17.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 655 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 18.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 20.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 23 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 3.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 14.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 97.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06A-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 630 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 4.5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.2 | 8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.9 | 10.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.1 | 13.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 20 | 17.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 31 | 21.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 39.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 51.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 54 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 57.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 62.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 67.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 73.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 83.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 95.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 8 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 9.5 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 180 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 23.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 16.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 11.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 31.4 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 98.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1240 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.3 | 3.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.4 | 6.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.8 | 7.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.5 | 9.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 11.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 33 | 14.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 21.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 27.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 28.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 31.7 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 37.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 45.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 58.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 77.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 97.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 6.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 19.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 1550 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 15.5 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 22.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 21.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 15 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 95.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1150 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.4 | 2.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.6 | 3.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9 | 4.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.9 | 6.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 8.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 34 | 9.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 15 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 19.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 20.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 23.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 29 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 38.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 53 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 73.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 91.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 3.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 20.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 406 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 13.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 26.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 24 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.5 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 11.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06B-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 518 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.1 | 4.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.9 | 8.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.5 | 9.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 12.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 33 | 14.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 26.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 36.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 38.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 43.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 50.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 58.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 68.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 81.1 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 94.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 7 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 12.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 76.7 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 24 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 18.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 17.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 19.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 98.6 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1370 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 3.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 6.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.7 | 7.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.5 | 10 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 13.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 16.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 25.4 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 31.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 32.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 36.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 43.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 53.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 69.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 89.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 6.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 20 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 886 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 17.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 10.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 26.5 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 19.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 95.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1340 | | mg/Kg |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 1.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 2.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.4 | 4.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.1 | 6.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.8 | 7.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 8.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 34 | 11 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 17.9 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 23 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 24.5 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 27.8 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 34.2 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 44.7 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 59.3 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 79 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 97.6 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 4.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 19.7 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 151 | | umhos/cm |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 16.3 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 21 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 25.1 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 13.2 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 95.8 | | % |
| McCullough | BKG-06 | BRC-BKG-06C-8-12 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 522 | U | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.3 | 4.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 8.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6 | 12.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8 | 15.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 11 | 17.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 18 | 22.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 26 | 25.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 43.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 52.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 54.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 57.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 62.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 68.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 74.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.8 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 91.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 12.6 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 7.6 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1200 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19.1 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 11.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 30.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1380 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 8.9 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07A-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 3.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.3 | 4.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9 | 5.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.6 | 6.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 21 | 8.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 33 | 10 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 17.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 23.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 26.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 31.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 40.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 52.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 75 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 91.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 4.3 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 22.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1610 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 13.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 25 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 21.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 13.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.5 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 8930 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 14.8 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07A-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 1.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 2.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.7 | 3.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9 | 4.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.8 | 5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 6.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 7.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 16.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 21.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 24 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 28.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 36.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 48.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 64.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 84 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 94 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 19.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 207 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 20.4 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 16 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 27.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 12.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 519 | U | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 16 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07A-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.3 | 3.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.3 | 5.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.1 | 6.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.7 | 7.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 10 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 34 | 11.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 26.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 37.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 39.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 42.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 46.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 52.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 61.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 76.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 93.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 5.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 14.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 90 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 19.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 23.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 15.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 20.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 99.1 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1910 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 3.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.3 | 5.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 7.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.7 | 8.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.3 | 10.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 12.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 14.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 21.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 28 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 29.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 33.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 40.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 51.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 64.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 82.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 94.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 7.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 17.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 90.2 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 19 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 17.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 24 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 13.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 97.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1000 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 2.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.6 | 3.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.3 | 3.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 13.1 | 4.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 23 | 4.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 35 | 6.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 13.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 17.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 19.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 22.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 29.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 41.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 55 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 78.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 96.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 3.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 23.5 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 346 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 16.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 21.5 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 25.1 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 9.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07B-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 520 | U | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 3.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.1 | 6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.2 | 9.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 8.5 | 11.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 11.8 | 12.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 20 | 16 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 30 | 18.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 34.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 43.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 45.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 48.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 53.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 59.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 66.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 77.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 91.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 9.4 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 11.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 284 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 19 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 22.4 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 13.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 1.6 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 24.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 99 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1730 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 8.3 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07C-0-0.5 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.2 | 3.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.6 | 5.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.1 | 5.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 12.7 | 6.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 22 | 8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 34 | 9.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 15.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 20 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 21.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 25.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 31.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 40.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 53.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 74.7 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 93 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 5.2 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 21.4 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 1300 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 16 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 25.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 22.1 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.9 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 10 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.6 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 6020 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 17 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07C-4-6 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8 | | none |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 1.4 | 1.2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 3.3 | 2 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 6.7 | 3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9.5 | 3.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 13.1 | 4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 23 | 4.5 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 35 | 6.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75 | 12.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 150 | 16.9 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 180 | 18.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 250 | 21.8 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 425 | 28.1 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 850 | 39.3 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 2000 | 56.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 4750 | 81.6 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 9500 | 96.4 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Clay | 3 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Coarse Sand | 25 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | SW9050 | Texture | Conductivity | 265 | | umhos/cm |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Fine Sand | 15.3 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Gravel | 18.4 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Medium Sand | 28.5 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Moisture Content | 4.6 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D422 | Texture | Silt | 9.8 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | D2216 | Solids | Solids, Percent | 96.7 | | % |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1530 | | mg/Kg |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | SW9081 | CEC | CEC | 18.9 | | meq/100g |
| McCullough | BKG-07 | BRC-BKG-07C-9-11 | NORMAL | 6/16/2005 | SW9045 | pH | pH (solid) | 8.7 | | none |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 3.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 3.6 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.7 | 3.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9.2 | 4.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 13 | 5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 5.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 35 | 6.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 13.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 17.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 18.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 21.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 27.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 40.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 59.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 86.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 3.7 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 27.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 68.2 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 13.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 13.1 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 31.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 9.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 99.4 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1660 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.3 | 6.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.1 | 8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.3 | 10.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.8 | 11.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.1 | 12.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 14.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 16.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 22.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 27.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 29.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 34 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 42.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 54.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 69.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 88.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 97.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 10.1 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 18.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 86.3 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 20.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 11.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 27.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 3.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 11.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 95.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 602 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.3 | 5.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.1 | 7.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.1 | 9.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.8 | 10.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.1 | 12.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 14.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 16.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 23.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 27.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 28.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 31.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 37.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 45.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 54.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 78.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 96.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 9.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 23.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 638 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 14 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 21.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 17.4 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 14 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08A-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 901 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 3.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.3 | 4.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 4.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9 | 5.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.9 | 5.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 6.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 35 | 7.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 12.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 17.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 19.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 24.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 35.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 52.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 68.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 85.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 98.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 4.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 16.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 58.3 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 22.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 14.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 33.1 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 7.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 98.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 925 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.3 | 7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 8.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.2 | 10.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.5 | 11.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.1 | 12.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 14 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 15.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 20.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 25.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 27.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 30.7 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 37.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 47.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 58 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 77.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 96.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 10.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 19.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 163 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 16.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 22.7 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 21 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 6.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 10.4 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 94.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 917 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.3 | 6.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3 | 9.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.1 | 12.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.4 | 13.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 11.5 | 17.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19 | 20.1 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 29 | 23.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 29.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 35.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 37.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 42.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 50.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 62 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 74.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 91.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 98.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 12.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 17 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 686 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 21.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 8.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 24.1 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 16.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96 | | % |
| McCullough | BKG-08 | BRC-BKG-08B-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 587 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 2.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 2.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.6 | 3.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9 | 3.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 13.2 | 3.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 23 | 4.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 35 | 5.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 12.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 17.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 19.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 24.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 34.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 50.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 68.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 87.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 95.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 3.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 18.4 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 49.3 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 22.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 12.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 34.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 1.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 9 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 98.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-0-0.5 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1470 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 6.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.3 | 7.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9 | 8.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.6 | 9.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 22 | 10.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 33 | 12.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 19.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 23.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 25.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 28.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 34.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 45.3 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 58.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 79.6 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 97.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 7.2 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 21.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 83.9 | | umhos/cm |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 15.5 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 20.4 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 23.3 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 5.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 12 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 95 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 706 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 663 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08C-4-6 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 73400 | | mg/Kg |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 1.4 | 3.8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 3.2 | 5.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 6.5 | 8 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 8.9 | 9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 12.3 | 11 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 21 | 13 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 32 | 15.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75 | 23.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 150 | 28.9 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 180 | 31.1 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 250 | 35.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 425 | 42.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 850 | 53.2 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 2000 | 66.5 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 4750 | 87.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 9500 | 99.4 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Clay | 8 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Coarse Sand | 20.9 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 357 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | SW9050 | Texture | Conductivity | 359 | | umhos/cm |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Fine Sand | 18.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Gravel | 12.6 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Medium Sand | 24 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Moisture Content | 4.8 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D422 | Texture | Silt | 15.8 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | D2216 | Solids | Solids, Percent | 96.1 | | % |
| McCullough | BKG-08 | BRC-BKG-08C-9-11 | NORMAL | 6/15/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 937 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 2.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 2.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.7 | 3.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9 | 4.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.9 | 4.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 6.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 35 | 7.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 17.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 24 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 26 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 30.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 37.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 47.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 59.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 81.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 98 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 15.1 | J | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 3.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 22.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 872 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 18.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 21.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 1.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 13.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 99.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 16000 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 4.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.1 | 5.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.5 | 7.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9 | 8.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.7 | 10 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 11.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 33 | 14.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 23 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 31.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 33.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 37.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 43.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 51.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 61.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 77.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 92 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 14.6 | J | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 7.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 16.6 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 577 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 22.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 17.8 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 15.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 95.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2640 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.3 | 6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.1 | 8.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.2 | 12.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.5 | 13.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 11.8 | 15.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 20 | 17.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 31 | 19.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 27.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 34.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 36.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 40.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 48 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 59.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 74 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 88.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 97.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 7.9 | J | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 12.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 14.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 265 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 20.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 11.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 26.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 15.2 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 95.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09A-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1850 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.3 | 2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.8 | 2.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.6 | 3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.2 | 3.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 4.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 4.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 11.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 18.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 20.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 23.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 30 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 39.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 51.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 73.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 95.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 13.3 | J | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 2.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 21.6 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 279 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 18.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 26.6 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 21.8 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 1.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.1 | | none |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 9.2 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 99.6 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 12300 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 3.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 4.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.3 | 6.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.1 | 8.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.5 | 9.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 21 | 11.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 33 | 13.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 24.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 34 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 36.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 41.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 49 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 59.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 71.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 88.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 97.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 11.3 | | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 6.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 16.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 650 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 24.9 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 11.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 22.8 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 6.8 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 17.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 94.8 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2520 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.3 | 4.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 7.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.2 | 10.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.4 | 12 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 11.9 | 13.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 20 | 16 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 31 | 17.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 27.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 33.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 35.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 38.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 44.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 53 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 63.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 82.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 96.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 9.2 | | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 10.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 19 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 197 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 17.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 17.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 19 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 5.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 16.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 81.1 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09B-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1220 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 1.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.4 | 1.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.7 | 2.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.2 | 3.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.1 | 4.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 22 | 5.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 35 | 7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 17.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 25.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 27.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 32.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 41.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 55.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 69.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 88.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 98.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 14.9 | | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 2.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 18.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 61.3 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 24.2 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 11.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 28 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 2.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 14.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 99.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-0-0.5 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3250 | | mg/Kg |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 3.2 | 2 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 6.7 | 3 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 9.2 | 4.1 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 13.1 | 4.6 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 22 | 6.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 35 | 7.2 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 75 | 17.5 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 150 | 26.4 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 180 | 28.9 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 250 | 34.5 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 425 | 44.7 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 850 | 59.9 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 2000 | 76.4 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 4750 | 92.3 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | SW9081 | CEC | CEC | 16.5 | | meq/100g |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Clay | 3 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Coarse Sand | 15.9 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | SW9050 | Texture | Conductivity | 59.2 | | umhos/cm |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Fine Sand | 27.2 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Gravel | 7.7 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Medium Sand | 31.7 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D2216 | Solids | Moisture Content | 2.5 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D422 | Texture | Silt | 14.5 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | D2216 | Solids | Solids, Percent | 99.2 | | % |
| McCullough | BKG-09 | BRC-BCG-09C-0-0.5 | FD | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3440 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 5.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.1 | 7.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.3 | 11.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 8.6 | 13.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 12.3 | 15.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 21 | 18.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 32 | 22.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 32.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 39.3 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 40.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 44.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 49.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 58.1 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 69.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 88.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 96.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 19.5 | | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 11.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 19.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 155 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 17.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 11.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 19.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 8.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 20.4 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 94.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-4-6 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1390 | | mg/Kg |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 3.2 | 3.6 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 6.5 | 4.2 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9.4 | 4.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 13.2 | 6.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 23 | 6.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 36 | 7.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75 | 17.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 150 | 20.9 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 180 | 21.8 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 250 | 24.1 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 425 | 29.4 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 850 | 43.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 2000 | 69.5 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 4750 | 96.7 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 50000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | SW9081 | CEC | CEC | 18.2 | | meq/100g |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Clay | 4.2 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Coarse Sand | 27.2 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | SW9050 | Texture | Conductivity | 89.5 | | umhos/cm |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Fine Sand | 11.7 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Gravel | 3.3 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Medium Sand | 40.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Moisture Content | 6.1 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D422 | Texture | Silt | 13.5 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | D2216 | Solids | Solids, Percent | 95.9 | | % |
| McCullough | BKG-09 | BRC-BKG-09C-9-11 | NORMAL | 6/14/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 798 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 2.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 3.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.3 | 4.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.9 | 4.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 5.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 6.9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 14.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 22 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 24.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 29.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 38.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 50.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 64 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 83.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 97.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10.3 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 19.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 77.4 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 24.1 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 16.7 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 25.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2060 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.3 | 6.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.5 | 9.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 12 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 33 | 14.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 22.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 29.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 31.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 36.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 43.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 54.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 68.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 84.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 94.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 12.5 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 6.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 16.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 921 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 21 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 15.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 24.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 16.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 94.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2260 | | mg/Kg |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 3.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 4.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 13 | 5.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 7.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 8.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 16.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 22 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 24.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 28.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 35.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 45.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 59.9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 79.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 94.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 14.8 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 19.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 1480 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 20.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 24.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 6.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 12.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 94.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11A-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1360 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 2.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 2.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 3.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.1 | 3.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 4.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 5.9 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 12 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 19.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 22.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 28.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 38.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 52 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 67 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 87.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 12 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.7 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.7 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 64.7 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 26.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 12.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 28.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.9 | | none |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 9.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 99 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1240 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 3.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.1 | 4.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.4 | 7.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.7 | 9.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.4 | 10.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 14 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 32 | 16.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 25 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 32.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 35.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 40.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 49.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 61.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 77.4 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 95.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 12 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 7.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 17.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 198 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 24.1 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 4.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 28.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 6.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.6 | | none |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 17.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 94.1 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1300 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 3.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.5 | 5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.9 | 5.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.9 | 6.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 11.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 20.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 27.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 30 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 34.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 42.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 54.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 69.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 87.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 98.9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 8.2 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 5 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 18.1 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 881 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 21.9 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 12.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 15.7 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11B-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 4610 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.5 | 2.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.3 | 3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.2 | 3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 4.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 36 | 5.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 14.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 23.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 26.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 31 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 39.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 51.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 65.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 83.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 94.9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 18.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 71.2 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 25.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 16.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 98.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1490 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 2.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.4 | 3.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.3 | 3.7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.1 | 4.2 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 5.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 7 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 13.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 19.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 21.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 25.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 32.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 43 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 57.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 79.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 95.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 12.1 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 21.9 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 967 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19.2 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 20.4 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 25 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 6.9 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.3 | | none |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 94.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2020 | | mg/Kg |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 2.6 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.7 | 4.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 4.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 13 | 5.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 7.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 9.1 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 15.5 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 21.8 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 24 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 28 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 35.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 45.9 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 59.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 77.3 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 91.4 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 9.1 | | meq/100g |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 4.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 17.9 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 1130 | | umhos/cm |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19.8 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 22.7 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 24.1 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5.5 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.3 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.6 | | % |
| McCullough | BKG-11 | BRC-BKG-11C-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 3580 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 1.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 2.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9 | 2.5 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.1 | 2.9 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 3.8 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 6.4 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 18.5 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 31.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 33.9 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 38.4 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 46 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 59.5 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 72.5 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 82.8 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 93.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 7.3 | | meq/100g |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.1 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 10.3 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 77.7 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 27.6 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 17.2 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26.5 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 0.8 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 16.4 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 99.3 | | % |
| River | BKG-12 | BRC-BKG-12A-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2310 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 3.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.3 | 4 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 4.9 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.7 | 5.8 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 6.7 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 8 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 14.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 20.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 21.7 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 25.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 31.2 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 41.5 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 57.2 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 80.2 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 95 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 6.2 | | meq/100g |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 4 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 23 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 146 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 16.7 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 19.8 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 4.4 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.6 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.4 | | % |
| River | BKG-12 | BRC-BKG-12A-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 560 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 4.9 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.1 | 7.7 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.2 | 11 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.4 | 12.4 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 11.7 | 13.7 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 20 | 16.5 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 30 | 18.3 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 25.9 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 32.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 34.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 39.1 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 47.3 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 59.2 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 73.7 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 89.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 97.6 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 6.8 | | meq/100g |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 11 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 15.9 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 664 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 21.4 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 10.4 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 26.4 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 4 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.5 | | none |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 14.9 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.2 | | % |
| River | BKG-12 | BRC-BKG-12A-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 740 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 1.8 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.4 | 2.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.2 | 3.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13 | 3.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 5.1 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 7.4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 21.5 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 34.4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 37.1 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 41.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 48 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 59.2 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 73.1 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 86.9 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 98.6 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10 | | meq/100g |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 2.3 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 13.8 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 73.3 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 26.5 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 13.1 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 25.1 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 0.9 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.4 | | none |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 19.2 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 99.1 | | % |
| River | BKG-12 | BRC-BKG-12B-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 2720 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 2 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.3 | 2.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.8 | 3.5 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.4 | 4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.2 | 4.4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 5.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 35 | 6.5 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 13.8 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 19.2 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 20.8 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 24.5 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 31.5 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 41 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 55.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 76.1 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 91.8 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 8.8 | | meq/100g |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.5 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 20.4 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 109 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 17.6 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 23.9 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 24.2 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.3 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96 | | % |
| River | BKG-12 | BRC-BKG-12B-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 639 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 6.1 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.2 | 7.9 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.9 | 9.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.4 | 10.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 13 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 32 | 14.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 20.3 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 25.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 27.4 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 31.6 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 39.6 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 50.8 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 65.2 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 80.7 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 93.6 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 10.8 | | meq/100g |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 7.9 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 15.5 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 591 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 19.3 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 19.3 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 25.6 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 5.6 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.3 | | none |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 12.4 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.8 | | % |
| River | BKG-12 | BRC-BKG-12B-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1010 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.4 | 1.3 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.4 | 1.7 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 7 | 1.7 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.5 | 1.7 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 13.5 | 2.2 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 23 | 2.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37 | 3.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 13.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 24.6 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|-------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 27.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 33.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 41.7 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 48.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 58.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 75.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 94.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 8.2 | | meq/100g |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 1.7 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 16.7 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 67.7 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 28.2 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 24.4 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 17.2 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 1 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.8 | | none |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.8 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 99.2 | | % |
| River | BKG-12 | BRC-BKG-12C-0-0.5 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1460 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.3 | 2.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.2 | 3.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.6 | 3.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9.1 | 4.8 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.8 | 5.3 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 22 | 6.3 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 34 | 7.7 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 14 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 19.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 21.5 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 25.6 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 34.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 51.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 69.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 85.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 96.1 | | % passing |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|---------------|-------------------|--------|-----------|-----------|
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 8.2 | | meq/100g |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 3.9 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 15.5 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 121 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 20.4 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 14.6 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 35.4 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 4.7 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 9 | | none |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 10.2 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 95.6 | | % |
| River | BKG-12 | BRC-BKG-12C-4-6 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 1070 | | mg/Kg |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 1.3 | 3.8 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 3.1 | 5.2 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 6.4 | 7.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 8.8 | 8.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 12.4 | 9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 21 | 10.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 33 | 12.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75 | 18.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 150 | 24.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 180 | 26.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 250 | 29.8 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 425 | 36.9 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 850 | 49.2 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 2000 | 65.3 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 4750 | 84.4 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 9500 | 97.1 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 19000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 25000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 37500 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 50000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Particle Size | 75000 | 100 | | % passing |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | SW9081 | CEC | CEC | 9.9 | | meq/100g |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Clay | 7.1 | | % |

**TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY**

| Soil Origin | Sampling Location | Sample ID | Sample Type | Sample Date | Analytical Method ¹ | Test Group | Analyte | Result | Qualifier | Unit |
|-------------|-------------------|------------------|-------------|-------------|--------------------------------|------------|-------------------|--------|-----------|----------|
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Coarse Sand | 19.1 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | SW9050 | Texture | Conductivity | 663 | | umhos/cm |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Fine Sand | 18.1 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Gravel | 15.6 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Medium Sand | 28.4 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Moisture Content | 3.9 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | SW9045 | pH | pH (solid) | 8.2 | | none |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | SM2520 | Salinity | Salinity | 2 | U | none |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D422 | Texture | Silt | 11.7 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | D2216 | Solids | Solids, Percent | 96.4 | | % |
| River | BKG-12 | BRC-BKG-12C-9-11 | NORMAL | 6/17/2005 | LYDKHN | TOC | TOC by Lloyd Kahn | 580 | | mg/Kg |

Notes:

meq/100g Milliequivalent per 100 grams
mg/kg Milligram per kilogram
umhos/cm Micromhos per centimeter
ASTM American Society for Testing and Materials
CEC CEC
TOC Total organic carbon
U Analyte is undetected at the reported quantitation limit.

1 Analytical methods include the following:

D422 ASTM D422-63 (2002). "Standard Test Method for Particle-Size Analysis of Soils."
D2216 ASTM D2216 "Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass."
SM2520 Standard Methods for the Examination of Water and Wastewater. Method 2520. "Salinity."
SW9050 EPA SW-846 Method 9050. "Specific Conductance."
SW9045 EPA SW-846 Method 9045. "Solid and Waste pH."
SW9081 EPA SW-846 Method 9081. "CEC of Soils."

APPENDIX D

Includes on compact disc:

**Data Validation Summary Report for BRC/TIMET Background Soil Data
Data Validation Memorandum for Environ Background Soil Data**

APPENDIX D-1

**DATA VALIDATION SUMMARY REPORT FOR
BRC/TIMET SOIL BACKGROUND DATA**

**DATA VALIDATION SUMMARY REPORT
FOR
BACKGROUND SOIL DATA**

**BMI Common Areas and Complex Vicinity
Titanium Metals Corporation
Henderson, Nevada**

Submitted to

**Nevada Division of Environmental Protection
1771 E. Flamingo Road, Suite 121-A
Las Vegas, Nevada 89119-0837**

Prepared by

**Tetra Tech EM Inc.
2901 Wilcrest Drive, Suite 410
Houston, Texas 77042**

March 16, 2007

CONTENTS

| <u>Section</u> | <u>Page</u> |
|---|-------------|
| ACRONYMS AND ABBREVIATIONS | IV |
| 1.0 INTRODUCTION | 1 |
| 1.1 PURPOSE AND OBJECTIVES | 1 |
| 1.2 VALIDATION PROCESS | 4 |
| 2.0 DATA VALIDATION SUMMARY | 6 |
| 2.1 DATA VALIDATION FINDINGS | 6 |
| 2.1.1 Holding Times | 6 |
| 2.1.2 Calibration | 7 |
| 2.1.3 Blank Samples | 8 |
| 2.1.4 Spike Samples..... | 10 |
| 2.1.5 Tracer Yields..... | 12 |
| 2.1.6 Duplicate Samples | 12 |
| 2.1.7 Other Qualifications..... | 14 |
| 2.1.8 Summary of Rejected Data | 15 |
| 2.2 EVALUATION OF PARCCS PARAMETERS | 16 |
| 2.2.1 Precision | 16 |
| 2.2.2 Accuracy | 16 |
| 2.2.3 Representativeness..... | 17 |
| 2.2.4 Completeness..... | 18 |
| 2.2.5 Comparability | 18 |
| 2.2.6 Sensitivity | 19 |
| 3.0 CONCLUSIONS AND RECOMMENDATIONS | 19 |
| REFERENCES | 21 |

TABLES

| | |
|----|--|
| 1 | SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS |
| 2 | DATA VALIDATION CRITERIA—FULL AND PARTIAL |
| 3 | DATA VALIDATION QUALIFIERS AND COMMENT CODES |
| 4 | HOLDING TIME CRITERIA |
| 5 | QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES |
| 6 | QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION |
| 7 | QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES |
| 8 | QUALIFICATIONS BASED ON DUPLICATE PRECISION |
| 9 | QUALIFICATIONS WHEN RESULTS ARE BELOW PQL |
| 10 | OTHER STABLE CHEMISTRY QUALIFICATIONS |
| 11 | RADIOCHEMISTRY QUANTIFICATION ISSUES |
| 12 | QUALIFICATIONS BASED ON ALTERNATIVE METHODS |
| 13 | OTHER RADIOCHEMISTRY QUALIFICATIONS |
| 14 | REJECTED RESULTS |

FIGURES

Figures

| | |
|---|----------------------------------|
| 1 | BACKGROUND SAMPLING LOCATION MAP |
|---|----------------------------------|

APPENDIX

Appendix

| | |
|---|---|
| A | BACKGROUND SOIL ANALYTICAL DATABASE (contained on compact disk) |
|---|---|

ATTACHMENT

Attachment

| | |
|---|--|
| A | LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS |
|---|--|

ACRONYMS AND ABBREVIATIONS

| | |
|--------|---|
| mg/kg | Milligram per kilogram |
| mg/L | Milligram per liter |
| pCi/g | PicoCurie per gram |
| pCi/L | PicoCurie per liter |
| µg/L | Microgram per liter |
| ASTM | American Society for Testing and Materials |
| BMI | BMI Common Areas and Complex |
| CEC | Cation exchange capacity |
| CVAA | Cold vapor atomic absorption |
| DOE | U.S. Department of Energy |
| DVSR | Data validation summary report |
| EDD | Electronic data deliverable |
| EML | Environmental Monitoring Laboratory |
| EPA | U.S. Environmental Protection Agency |
| HASL | Health and Safety Laboratory |
| ICP | Inductively coupled plasma |
| ICP/MS | Inductively coupled plasma/mass spectrometer |
| LCS | Laboratory control sample |
| LCSD | Laboratory control sample duplicate |
| MD | Matrix duplicate |
| MDC | Maximum detectable concentration |
| MDL | Method detection limit |
| MS | Matrix spike |
| MSD | Matrix spike duplicate |
| NDEP | Nevada Division of Environmental Protection |
| PARCCS | Precision, accuracy, representativeness, completeness, comparability, and sensitivity |
| pdf | Portable document format |
| PQL | Practical quantitation limit |
| QA | Quality assurance |
| QC | Quality control |

ACRONYMS AND ABBREVIATIONS (Continued)

| | |
|------------|-----------------------------------|
| RPD | Relative percent difference |
| SDG | Sample delivery group |
| SQL | Sample quantitation limit |
| STL | Severn Trent Laboratories, Inc. |
| Tetra Tech | Tetra Tech EM Inc. |
| TIMET | Titanium Metals Corporation, Inc. |

1.0 INTRODUCTION

Tetra Tech EM Inc. (Tetra Tech) prepared this data validation summary report (DVSR) to assess the validity (based on data validation) and usability (based on project objectives) of background soil analytical data collected from June 14 through 17, 2005 in the vicinity of the BMI Common Areas and Complex (BMI) and the Titanium Metals Corporation, Inc. (TIMET) facility in Henderson, Nevada. The background soil sampling program includes sampling and data collection from soil borings located in the vicinity of the BMI and TIMET areas, and correspond to the proposed background sampling locations shown on Figure 1. Specifications for sampling and analysis and the required quality control and quality assurance (QA/QC) measures are detailed in the “Background Soil Sampling Workplan” ([Environmental Resources Management and Tetra Tech 2005](#)). A total of 104 soil field samples were collected; plus three field split samples and three equipment rinsate blanks. Table 1 lists all samples collected at the boring locations and the chemical analysis conducted on each. A sample consists of all fractions of a medium (soil) from a given location and depth interval during a single event (background sampling event).

1.1 PURPOSE AND OBJECTIVES

The purpose of this event is to collect data for metals, radionuclides, and anions in background soils that are comparable to site soils. These data will be used in future site-to-background statistical comparisons to be conducted during future site investigations. At present, insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed the concentrations of these chemicals in background. The purpose of this DVSR is to summarize the validation and usability for chemical background soil data collected during this event for establishing background concentrations.

The background data collection event had five objectives as follows:

- Produce validated data for analytes not included in the existing background dataset collected by Environ for the City of Henderson as part of a risk assessment conducted in 2003 (Environ 2003)
- Produce validated data for several depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet below ground surface)
- Produce validated data for a broader range of soil units applicable to the site, in addition to the soil units currently represented by the Environ data
- Produce validated data to form a larger sample population to support statistical comparisons of on-site (specifically, BRC and TIMET properties) and background datasets
- Produce validated data to form more than one background dataset, if required, based on statistical comparisons of data from different geologic settings

The first step to achieving these objectives is to collect representative samples from areas identified as being background locations and from the applicable soil units and intervals. The second step is to conduct the most appropriate analytical tests and validate the resulting data. The third step is to evaluate summary and comparative statistics to various parts of the cumulative background dataset. Finally, the last step is to use the validated dataset to conduct comparisons to site-related soil concentrations. This DVSR documents the sample analysis and validation of the dataset (second step above). The discussion of sample collection, statistics, and application of the background dataset are discussed in the main report.

Severn Trent Laboratories, Inc. (STL) in St. Louis, Missouri, and Burlington, Vermont conducted the analyses for background soil samples collected during this event. After initial validation procedures, statistical evaluations were conducted (as discussed in the main report). However, summary and comparative statistics initially revealed that results for radium isotopes (224, 226, and 228) were questionable. In addition, an evaluation of interelement concentrations between parent and daughter isotopes in the decay chains revealed inconsistencies. It was determined that radium-224 could be reported from the gamma spectroscopy assuming equilibrium with lead-212. This re-calculation of radium-224 results produced a better correlation and was deemed acceptable by the project team for inclusion in the dataset. As such, the original radium-224 results were replaced by the radium-224 results recalculated from the gamma spectroscopic analysis of lead-212.

Radium-226 and -228 were determined to be unusable as originally reported by STL in St. Louis, Missouri. As such, all 107 soil samples (104 plus 3 field splits) were sent to STL in Richland, Washington for re-preparation and re-analysis of isotopic radium. While there were quality control (QC) issues related to the second analysis of radium-228 (as discussed later in the body of this DVSR), the results for both radium-226 and -228 were significantly more consistent with the interelement correlations. As such, the initial radium-226 and -228 results were eliminated from the dataset presented as Appendix A to this DVSR and replaced by the second set of data. Appropriate validation qualifiers were applied to the second set of data as discussed in this DVSR. STL provided a letter of explanation, dated March 7, 2006, regarding the differences between radium results reported by their two laboratories. In summary, the letter states that the initial results were quantified using gravimetric measurement of a chemical carrier (barium); while the second results were quantified using a radiometric measurement of an isotopic tracer (barium-133). The letter states that STL's technical opinion is that "the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer" (STL 2006). The complete letter is included as Attachment A to this DVSR.

All data from the three STL laboratories were delivered in full data packages (in portable document format [pdf]) and accompanied by electronic data deliverables (EDD). Hardcopy data deliverables from STL were full data packages including sample results, QC sample summary tables, and all supporting sample preparation and analytical raw data. Each data deliverable constitutes a sample delivery group (SDG). The SDGs include: F5F160308, F5F170373, F5F180132, and F5F210233. EDDs received from the laboratory for each SDG were loaded into a Microsoft Access® database and used for reporting. STL reported sample results in the EDD, along with applicable laboratory qualifiers.

The following types of analyses were conducted on soil samples collected during this event and analyzed by STL:

- Total metals by inductively coupled plasma (ICP) by U.S. Environmental Protection Agency (EPA) Method 6010B, ICP/mass spectrometer (MS) by EPA Method 6020, cold vapor atomic absorption (CVAA) for mercury by EPA Method 7471A (EPA 1996), and colorimetric analysis of hexavalent chromium by EPA Method 7196A (EPA 1996).
- Inorganic analytes including anions by ion chromatography using EPA Method 9056A (EPA 1996), pH by electrode using EPA Method 9045C (EPA 1996), and cation exchange capacity (CEC) by EPA Method 9081 (EPA 1996)
- Physical parameters including percent moisture by gravimetric determination by EPA Method 160.3 (EPA 1983)
- Radionuclides, including gamma emitters by EPA Method 901.1 modified (EPA 1980), isotopic radium by EPA Methods 9315 and 9320 (EPA 1996), and isotopic thorium and uranium by alpha spectroscopy using Environmental Measurements Laboratory (EML) Procedures Manual A-01-R modified (also known as Department of Energy [DOE] Health and Safety Laboratory [HASL]-300) (DOE 1997a, EPA 1996, and EPA 1980)

The background study workplan listed method numbers that were different than those reported by STL.

The differences and affects are as follows:

- The workplan listed EPA Method 300.0 for anions (EPA 1983); while STL reported from EPA Method 9056A (EPA 1996). The methods are the same and do not affect data quality in any way.
- The workplan listed American Society for Testing and Materials (ASTM) Method D2216 (ASTM 1998) for the determination of percent moisture; while STL reported from EPA Method 160.3 (EPA 1983). The methods are the same and do not affect data quality in any way.

Quantitation limits are critical to the proper evaluation of method sensitivity and non-detect data. Three types of quantitation limits were evaluated for stable chemistries as follows:

- Method detection limit (MDL) – This limit was established by the laboratory according to the requirement in 40 CFR 136, Appendix B, and represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence (equivalent to a 3-sigma limit) that the analyte concentration is greater than zero. MDLs are established using matrices with little or no interfering species using reagent matrices and are considered the lowest possible reporting limit. Often, the MDL is represented as the instrument detection limit. Because these limits do not reflect sample-specific characteristics and preparation volumes/masses, MDLs were not reported in the hardcopy or EDDs for individual samples. However, MDLs can be indirectly obtained from the limits reported for method blanks, as method blanks were reported to the MDL.
- Sample quantitation limit (SQL) – The SQL is defined as the MDL adjusted to reflect sample-specific actions, such as dilution or aliquot sizes, and takes into account sample characteristics, sample preparation, and analytical adjustments. It represents the sample-specific detection limit and all non-detected results are reported to this level in the hardcopy and EDD formats.
- Practical quantitation limit (PQL) – This limit is defined as the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte, and includes the predicted effect of sample matrices with typical interfering species. The PQL is the lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy during routine laboratory operating conditions. PQLs are used to estimate or evaluate the minimum concentration at which the laboratory can be expected to reliably measure a specific chemical contaminant during day-to-day analyses of different sample matrices. Detected results greater than the SQL, but less than the PQL were qualified by the laboratory as estimated. Further qualification based on this scenario is discussed in [Section 2.1.7](#).

For radionuclides, the laboratory reported the minimum detectable concentration (MDC) (also known as minimum detectable activity) as the “reporting limit.” The MDC for radionuclides is the lowest level of activity in a given sample that is statistically distinguishable from a sample with no activity, at the 2-sigma confidence interval (equivalent to a 95 percent confidence interval) ([EPA 2004a](#)). The MDCs for radionuclide analysis are determined by a mathematical formula that takes into account sample volume, chemical recovery, instrument detection efficiency and background, and sample counting duration. The MDC, therefore, is equivalent to the SQL for radiochemical analytes. For radiochemical analysis, no PQL is established, as all results are reported to the sample-specific MDC. In addition, the 2-sigma rad error is reported for each analyte in each sample.

1.2 VALIDATION PROCESS

Both full and partial validations were conducted on the analytical data collected during this event. Table 2 lists the review items associated with each of the two levels of validation. Table 1 indicates the samples for which full validation was conducted (10 percent full validation as specified in the workplan). Full validation was conducted on 902 records out of 8,773 total field result records in the database (results for

11 samples were fully validated with 82 records per sample). (See [Section 2.2.4](#) for a more detailed accounting of the database records.) A description of each review item, including instances when results did not meet the acceptance criteria, is provided in [Section 2.0](#)

Stable chemistry sample results (metals and anions) were validated in accordance with the following EPA guidance documents: “U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review” ([EPA 2004b](#)) and “Region 9 Superfund Data Evaluation/Validation Guidance” ([EPA 2001](#)).

EPA has not standardized the validation of radionuclide data, so the reviewer relied on professional judgment and other sources for qualification of data. Radionuclide data validation was conducted using several documents; including the U.S. EPA document “Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)” ([EPA 2004a](#)), the U.S. Department of Energy (DOE) reference document, “Evaluation of Radiochemical Data Usability” ([DOE 1997b](#)) as well as QC requirements and criteria summarized in the applicable method.

A Tetra Tech project chemist conducted the data validation and review. Qualifications of the project chemist were submitted by Tetra Tech to Nevada Division of Environmental Protection (NDEP) as part of the project staff submittal ([Tetra Tech 2004](#)). Based on data validation and review, data qualifiers were placed in the electronic database to signify whether the data were acceptable, acceptable with qualification, or rejected. Where applicable, an indication of result bias is presented. In addition, for every data validation qualifier, a secondary comment code was entered to indicate the reason for qualification. Table 3 provides the definitions for the data validation qualifiers and comment codes used in the database. Validation qualifiers and definitions are based on those used by EPA in the current validation guidelines ([EPA 2004b](#)).

The laboratory also submitted a detailed case narrative with each data package listing any QC criteria that were not met or any other issue that might affect data quality (for example initial or continuing calibration problems). In addition to the criteria listed above, each laboratory case narrative was thoroughly reviewed. Results were qualified for any issues that affected data quality listed in the laboratory case narrative.

1.3 REPORT ORGANIZATION

The DVSR includes three sections. [Section 1.0](#) is the introduction. [Section 2.0](#) summarizes data validation and usability for data collected during this event. [Section 3.0](#) provides general conclusions

about the usability of the data set. The references, tables, and figures follow the conclusions at the end of this document.

Table 1 provides a summary of all sampling locations from which soil data were obtained for this event. Table 1 also includes relevant information about the sampling dates, matrices, analytical suite, and level of validation. A map showing sampling locations for this event are presented on Figure 1.

2.0 DATA VALIDATION SUMMARY

This section describes the data validation findings and usability with regard to the project-specific objectives. [Section 2.1](#) summarizes the data validation findings, and [Section 2.2](#) summarizes the evaluation of the following quality indicator parameters: precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS).

2.1 DATA VALIDATION FINDINGS

This section summarizes all findings based on the validation process. Each section discusses the findings and their effects, if any, on data quality.

2.1.1 Holding Times

Holding time refers to the period of time between sample collection and the preparation and/or analysis of the sample. Sample results were reviewed for compliance with the method-prescribed preparation and analysis holding times, where available. Holding times for aqueous matrices (in this event, only the equipment rinsate blanks are aqueous) are based on those listed in EPA documents, “Test Methods for Evaluating Solid Waste” ([EPA 1996](#)) and “Method for Chemical Analysis of Water and Waste” ([EPA 1983](#)). Soil sample holding times are not specified for all methods in the reference given above. As such, professional judgment and historical data were used to determine the most appropriate holding time for soil sample preparation and analysis. Table 4 presents the holding time criteria that were used to validate the data for this event.

Since no definite holding time has been established for anions in soil, the laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer. As such, results for nitrate and nitrite that were generated more than 72 hours after sampling but less than 30 days were qualified as estimated (J). All nitrate and nitrite results were

qualified as estimated based on this criterion. No results for nitrate or nitrite were generated more than 30 days after sampling.

Since no definite holding time has been established for pH measurements in soil, the laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer. As such, results for pH that were measured more than 72 hours after sampling but less than 14 days were qualified as estimated (J). All pH results measured more than 14 days after sampling were qualified as rejected (R). All soil pH results were qualified as estimated (J), except one, which was rejected because results were obtained more than 14 days after sampling.

Results bias cannot be predicted for pH, nitrate, or nitrite, so no bias qualifier was assigned in the database. Table 5 lists all sample results qualified based on holding time exceedances during this reporting period. Data qualified based on holding time exceedance were also assigned the validation comment code “h” in the database.

As stated above, one soil pH result exceeded the laboratory’s extended holding time. As such, the following pH result was qualified as rejected and is considered unusable for meeting project objectives:

| SDG Number | Associated Samples | Analyte |
|-------------------|---------------------------|----------------|
| F5F160308 | BRC-BKG-04C1-0-0.5 | pH |

Note that the reanalysis of the radium-226 and radium-228 were conducted just after the 180-day technical holding time for radionuclides. No qualification was applied to soil sample results, because the soil matrix for each sample was digested prior to the holding time, even though the analysis took place after the holding time. Digesting the soil matrix solubilizes the radium (and other inorganic constituents) into an acid matrix. Since radium is not redox sensitive (exists as Ra^{2+}) the digest is considered a stable matrix.

2.1.2 Calibration

Instrument calibration data are provided in the full data packages. Initial and continuing calibration concentrations, frequencies, and results were evaluated. All calibrations and calibration verifications were acceptable. As such, no data were qualified based on calibration issues.

2.1.3 Blank Samples

Field and laboratory blanks consisting of contaminant-free water were prepared and analyzed as part of standard QA/QC procedures to monitor for potential contamination of field equipment, laboratory process reagents, and sample containers. For this program, two groups of blanks were prepared and analyzed: (1) laboratory QC blanks (method blanks), and (2) field QC blanks (equipment rinsate blanks and temperature blanks). Each blank type is discussed in the following sections.

2.1.3.1 Laboratory QC Blanks

Method blanks are laboratory QC samples that are prepared and analyzed with each batch of environmental samples. Method blanks are comprised of high-grade, contaminant-free water that is carried through all preparation procedures in batches with field samples (including the addition of all reagents and QC monitoring compounds). Method blanks monitor potential contaminants in laboratory processes, reagents, and containers, and were analyzed for each analytical method used on field samples.

The following analytes were detected in one or more method blank (note that sample results may or may not have been qualified for all listed analytes based on the comparison of blank concentrations to sample concentrations; qualified data are discussed in Section 2.1.3.3):

- Total metals detected in method blanks – Aluminum, arsenic, barium, boron, calcium, copper, iron, lithium, magnesium, manganese, mercury, nickel, niobium, phosphorus, silicon, sodium, strontium, thallium, titanium, tungsten, vanadium, and zinc
- Radionuclides detected in method blanks – Polonium-214, polonium-218, radium-228, thorium-230, thorium-231, and uranium-233/234
- Wet chemistries detected in method blanks – Sodium (for CEC analysis), chloride, fluoride, and sulfate

2.1.3.2 Field QC Blanks

Two types of field QC blanks were collected and analyzed with field samples: equipment rinsate blanks and temperature blanks. Each one monitors the potential impact of field and transportation conditions on the collection and integrity of field samples as discussed in the following paragraphs. Trip blanks were not collected, because volatile organic compounds were not analyzed in soil samples.

Equipment Rinsate Blanks – In order to identify any affect of carry-over from sampling equipment on sample collection, one equipment rinsate blank was collected during soil sample collection events at a

frequency of at least one for each day of sampling. A total of three equipment rinsate blanks were collected. Equipment rinsate blanks were prepared by pouring high-grade, contaminant-free water from its shipping container onto sampling equipment after decontamination between uses and collecting it directly into containers. Equipment rinsate blanks were shipped to the laboratory for analysis for the same parameters as the soil samples. Equipment rinsate blank results were submitted in hardcopy. The following analytes were detected in one or more equipment rinsate blanks:

- Total metals detected in equipment rinsate blank – Aluminum, arsenic, barium, boron, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, niobium, phosphorus, platinum, potassium, selenium, silicon, sodium, strontium, titanium, tungsten, uranium, vanadium, and zinc
- Radionuclides detected in equipment rinsate blank – Thorium-230, uranium-233/234, and uranium-238

No sample data were qualified based on rinsate blank contamination.

Temperature Blanks – A total of eight equipment rinsate blanks were collected and shipped to the laboratory with samples. Temperature blanks were prepared in the laboratory prior to sample kit delivery and included water contained in a small plastic bottle. Upon receipt of field samples by the laboratory, the temperature of the blank was recorded to verify that the field samples were held to the criterion of 4°C ±2°C. One cooler containing the following samples was received at the laboratory with a temperature reading of 9°C:

- BRC-BKG-04C-0-0.5, BRC-BKG-08B-0-0.5, BRC-BKG-08C-4-6, BRC-BKG-08A-0-0.5, BRC-BKG-08A-4-6, BRC-BKG-08B-9-11, BRC-BKG-08B-4-6, BRC-BKG-08C-9-11, and BRC-BKG-08C-0-0.5

The ambient temperature on the day of collection (June 15, 2005) was in excess of 100°F, so sample temperatures were significantly reduced from time of sampling to laboratory receipt. The temperature excursion was only a few degrees higher than recommended. Since all analytes being reported are not temperature sensitive (non-volatile metals, radionuclides, and anions), then it is the professional judgment of the reviewer that no qualification of sample results was required.

2.1.3.3 *Qualifications Due to Blank Contamination*

The previous subsections describe the types of blanks that were collected and analyzed with field samples in this reporting period. The sections also list the analytes that were detected in one or more of each type

of blank. This section discusses the procedure for evaluating blank results and applying qualifiers on field data.

Table 6 presents data that were qualified as undetected (U) or estimated and biased high (J+) based on laboratory blank contamination (including both calibration and method blanks). No sample data were qualified solely based on rinsate blank contamination, because analytes detected in rinsate blanks were also detected in method blanks and qualification was already made. Note that not every analyte detected in laboratory or field QC blanks resulted in qualification of data. If the criteria discussed below were not met for a given result, then no qualification was required.

The current validation guidelines for total metals (EPA 2004b) state that if the laboratory blank or field QC blank value is greater than the SQL (EPA uses the term “instrument detection limit”) but less than the PQL (EPA uses the term “contract-required detection limit”), the following qualifications are recommended:

- All associated sample results greater than the SQL but less than the PQL will be qualified as undetected (U).
- All associated sample results greater than the PQL will be qualified at the discretion of the reviewer as estimated and possibly biased high (J+).

These criteria caused numerous trace-level metals results to be qualified as undetected (U) or estimated/biased high (J+). For statistical evaluations, all results qualified as “U” based on blank contamination are treated the same as true non-detects. The effect of qualifying low concentration detections as non-detects causes the number of censored data to increase while reducing the number of detect data used in statistical evaluations. This situation may result in higher means in the summary statistics for detected results, as the lower concentrations may now be considered non-detects.

Note that some results reported in Table 6 were qualified as “J-” (mostly niobium). The qualification of “J-” in these cases was due to irregularities other than blank contamination, which supersedes the qualification due to blank contamination. No data were rejected based on blank contamination.

2.1.4 Spike Samples

Spiked samples are environmental matrices spiked with a subset of target compounds at known concentrations. These QC samples were analyzed with project samples to measure laboratory accuracy and potential interference from the matrix. Two types of spike samples were analyzed with the project samples to monitor for potential interferences during analysis:

- Matrix spike (MS) and matrix spike duplicate (MSD) samples; these samples consist of aliquots of environmental samples spiked with a subset of target compounds. MS/MSD samples monitor potential interference from the site-specific sample matrix and its effect on target compounds.
- Blank spike samples, also known as laboratory control samples (LCS); these samples are an aliquot of reagent soil or water spiked with a subset of target compounds. The LCS monitors laboratory accuracy without the bias of a sample matrix. In some cases, the LCS was analyzed in duplicate (LCSD).

At least one MS/MSD sample and one LCS were prepared and analyzed with each batch of environmental samples except for radionuclide analysis, which require only LCSs. Note that for some SDGs, the laboratory conducted MS and MSD analyses on samples that were not specific to the background study. In those cases, evaluation of the MS and MSD is not conducted because the reviewer has no way to confirm that the matrix chosen is representative of samples from the study.

Spike recoveries for antimony, barium, niobium, strontium, zinc, and zirconium were consistently biased low; this may indicate the difficulty in either dissolution of the element or detection of the low energy emissions for these elements. In addition, recoveries for cadmium in some cases were high and other cases were low.

LCS and LCSD recoveries for radium-228 in two batches were high (134 and 175 percent). According to validation guidelines, associated positive results should be qualified as biased high. However, upon comparison of the radium-228 results to its long-lived parent isotope, thorium-232, it was found that radium-228 results in these batches were significantly high. It is possible that contamination or interferences may have caused the high results; however, the origin of the contamination or interference could not be determined by the laboratory. As such, the project team agreed to take the more conservative approach and reject the results associated with these two batches. The following results were rejected based on the criteria discussed above:

| SDG | Sample ID | Analyte |
|------------|-------------------|----------------|
| F5F210233 | BRC-BKG-01B-9-11 | Radium 228 |
| F5F210233 | BRC-BKG-01C-0-0.5 | Radium 228 |
| F5F210233 | BRC-BKG-01C-4-6 | Radium 228 |
| F5F210233 | BRC-BKG-01C-9-11 | Radium 228 |
| F5F180132 | BRC-BKG-03B-9-11 | Radium 228 |
| F5F180132 | BRC-BKG-03C-0-0.5 | Radium 228 |
| F5F180132 | BRC-BKG-03C-4-6 | Radium 228 |
| F5F180132 | BRC-BKG-03C-9-11 | Radium 228 |
| F5F160308 | BRC-BKG-04C-0-0.5 | Radium 228 |
| F5F210233 | BRC-BKG-11A-0-0.5 | Radium 228 |

| | | |
|-----------|-------------------|------------|
| F5F210233 | BRC-BKG-11A-4-6 | Radium 228 |
| F5F210233 | BRC-BKG-11A-9-11 | Radium 228 |
| F5F210233 | BRC-BKG-11B-0-0.5 | Radium 228 |
| F5F210233 | BRC-BKG-11C-4-6 | Radium 228 |
| F5F210233 | BRC-BKG-12A-0-0.5 | Radium 228 |
| F5F210233 | BRC-BKG-12A-9-11 | Radium 228 |
| F5F210233 | BRC-BKG-12B-9-11 | Radium 228 |
| F5F210233 | BRC-BKG-12C-0-0.5 | Radium 228 |
| F5F210233 | BRC-BKG-12C-4-6 | Radium 228 |
| F5F210233 | BRC-BKG-12C-9-11 | Radium 228 |

Data that were qualified based on MS/MSD and/or LCS/LCSD recoveries that were outside the QC limits are presented in Table 7. Where possible, analytical bias was also determined and qualified data were assigned bias codes (- or +). Bias was not determinable in every case. Qualified results were also assigned the validation comment code “e” in the database. No data were rejected on the basis of MS/MSD; however, the results listed above were rejected due to poor LCS/LCSD recoveries. Rejected data are not usable for project objectives; all other data are usable to meet project objectives.

2.1.5 Tracer Yields

Tracer isotopes were added to each of the samples submitted for analysis of uranium, radium, and thorium isotopes. Tracers were added to the sample aliquot during preparation of the sample for analysis, and recoveries were compared with QC acceptance limits of 20 to 120 percent. Tracer recoveries outside the acceptable limits indicate interference from the sample matrix for the detection of target compounds. For this study, results for radium-226 (and polonium-218 quantified from radium-226) were qualified as estimated (J) because of high tracer yield. In the event of tracer yield recoveries over 100 percent, the laboratory uses 100 percent in the calculation of sample results. As such, the potential bias exhibited by the poor yield recovery is mitigated; therefore, no bias qualification was assigned. Results qualified for tracer yield are presented in Table 8 and were assigned the comment code “n” in the database. No data were rejected based on tracer yield.

2.1.6 Duplicate Samples

Duplicate samples involved the preparation and analysis of an additional aliquot of a field sample. Results from duplicate sample analysis measure laboratory precision as well as homogeneity of contaminants in the field matrix. For this investigation, three types of duplicate analyses were conducted: (1) MSDs for total metals, (2) matrix duplicates (MD) for inorganic analyses (anions) and radionuclides, and (3) field splits for both types of analyses. MSDs and MDs measure laboratory precision and sample

homogeneity, while field splits are used to evaluate field sampling technique precision, laboratory precision, and homogeneity of the sample matrix.

At least one duplicate analysis (MSD or MD) was performed with each batch of environmental samples processed in the laboratory. The laboratory calculated the relative percent difference (RPD) between the two detected values for MSD and MD analyses. RPD values within the acceptable limits indicate both laboratory precision and minimal matrix heterogeneity of compounds detected in the samples. Results associated with elevated RPD values were qualified as estimated to indicate the variability in detected concentrations or poor laboratory precision.

The RPDs for strontium, lead, and manganese were above the QC limit of 20 percent when the concentration exceeded five times the reporting limit (for results less than five times the reporting limit, the absolute difference between the duplicate results was evaluated) in some cases. Positive results associated with the duplicates in question were qualified as estimated (J); nondetects are not affected by duplicate precision. Bias could not be determined. Table 9 lists the sample results that were qualified as estimated (J) based on poor duplicate precision. These sample results were also assigned the validation comment code “d” in the database. No data were rejected based on laboratory duplicate results.

Five field split pairs were collected for background soil samples as follows:

- BRC-BKG-03A-3-7 and BRC-BCG-03A-3-7
- BRC-BKG-06C-0-0.5 and BRC-BCG-06C-0-0.5
- BRC-BKG-09C-0-0.5 and BRC-BCG-09C-0-0.5
- BRC-BKG-11C-0-0.5 and BRC-BCG-11C-0-0.5
- BRC-BKG-12B-0-0.5 and BRC-BCG-12C-0-0.5

However, the laboratory combined the duplicate samples from location 11C (BRC-BKG-11C-0-0.5 and BRC-BCG-11C-0-0.5) and 12B (BRC-BKG-12B-0-0.5 and BRC-BCG-12B-0-0.5) into two samples; one for location 11C and one for location 12B. As such, only three pairs of field split precision results were evaluated from a total of 104 field samples. To meet the collection frequency required by the workplan (5% or one per 20), all five should have been analyzed and evaluated. As such, the realized frequency of field splits is only 2.9 percent. According to EPA guidance, there are no specific criteria for evaluating field splits (EPA 2004b). Generally, field split precision was less than 50 percent RPD for sample results

that exceeded five times the reporting limit. Field split precision was not assessed when results were less than five times the reporting limit. No data were qualified based on field split precision.

2.1.7 Other Qualifications

Each of the paragraphs in this section addresses the following qualification scenarios and comment codes that are not already addressed in the larger review sections:

- Positive results for stable chemistries above the SQL, but less than the PQL (comment code “g”) as reported in Table 10
- Other qualification including results with ICP serial dilution issues (included in comment code “j”) as reported in Table 11
- Positive results for radiochemistries above the MDC, but less than the requested reporting limit (comment code “k”) as reported in Table 12
- Results replaced by more sensitive analytical method results (comment code “l”) as reported in Table 13

Quantitation less than the practical quantitation limit for stable chemistries – The laboratory evaluated the SQL and PQL for each sample result. In cases where sample results were greater than the SQL, but less than the PQL, the laboratory qualified results as estimated. Specifically, results with this scenario were qualified by the laboratory as “B” for metals and “J” for all other tests. During data validation, positive results less than the PQL but greater than or equal to the SQL were qualified as estimated (J). Qualitatively, the results are acceptable; however, these results were considered estimated, because as the value approaches the SQL, the accuracy of the measurement is less certain. In these cases, bias cannot be determined. Results qualified as estimated (J) for this reason are presented in Table 10 and were assigned the validation comment code “g” in the database.

Other stable chemistries qualifications – This category includes other issues that may affect data quality and for which qualifiers have been assigned. Specifically, the percent difference between the original analysis and the required ICP serial dilution exceeded the QC limit for several metals analyzed by ICP and ICP/MS. As such, the results for these analytes in numerous samples were qualified as estimated (J). No bias was determined for these results. One high-value outlier for the uranium mass was checked by converting the isotopic activity of uranium-238 to mass (uranium-238 constitutes more than 99 percent of the mass of naturally occurring uranium). This calculation yielded a mass of 2.4 milligrams per kilograms (mg/kg) instead of the 7.6 mg/kg reported by the laboratory. As a result of this calculation, the value of 7.6 mg/kg was excluded from the working data set. Even though associated laboratory QC

measurements were acceptable, the value was rejected and qualified “R.” The rejected result is as follows:

| SDG Number | Associated Samples | Analyte |
|-------------------|---------------------------|-----------------|
| F5F160308 | BRC-BKG-04B-4-6 | Uranium (total) |

Results qualified for these issues are included in Table 11 and were assigned the validation comment code “j” in the database.

Radiochemistries quantification issue – This qualification is meant to indicate positive radioisotope results that were reported at concentrations less than the required reporting limit, but still greater than the MDC. While the qualification does not seriously affect data quality, the laboratory chose to qualify these results as estimated. As such, these results were qualified as estimated (J). No bias was determined. Results qualified for this issue are included in Table 12 and were assigned the validation comment code “k” in the database. No data were rejected based on this criterion; however, some radium-228 results listed in Table 12 have “R” qualifiers for other reasons (see Section 2.1.4).

Analytical method sensitivity – This qualification is meant only to select the most appropriate sample result for reporting when one or more values are reported for a given analyte using different analytical techniques. Thorium-228, thorium-230, thorium-232, and uranium-238 results were obtained from both isotopic alpha spectroscopy analysis and gamma spectroscopy analysis (when gamma intensities were detectable by the instrument). Since the gamma spectroscopy results are less reliable than the isotopic analysis, the gamma spectroscopy results were flagged (X) as not reportable. Flagged results are included in Table 13 and were assigned the comment code “l” in the database.

2.1.8 Summary of Rejected Data

Based on the review summarized in the sections above, sample results listed in Table 14 were rejected. The rejected results included one pH result, one total uranium result, as well as several radium-228 results. The pH result was rejected due to holding time issues (see Section 2.1.1). The total uranium result was rejected based on a statistical determination that the result was erroneously high. The radium-228 results were rejected because of high LCS recoveries and concerns that the results were biased high, as confirmed by interelement correlations (see Section 2.1.4). All other data were usable to meet project objectives with the qualifications discussed in the sections above.

2.2 EVALUATION OF PARCCS PARAMETERS

Overall data quality was acceptable based on the critical indicator parameters, except for data specifically rejected and qualified as such (R) (Section 2.1.8). PARCCS parameters were reviewed for laboratory analytical results obtained during the background soil sampling event, and the sections below discuss the results of the evaluation for each indicated parameter.

2.2.1 Precision

Precision is the measure of the variability associated with an entire sampling and analysis process. It is the comparison among independent measurements as the result of repeated application of the same process under similar conditions. It is determined by analyzing field split pairs, MSD pairs, and MD pairs. Precision is expressed as the RPD of a pair of values (or results).

Field split pairs were collected, analyzed, and evaluated for each analysis performed on every sample matrix. Frequencies of field split pairs submitted to the laboratory for analysis were shown to be 2.9 percent for the data collected during this event (3 out of 104 soil samples). This frequency does not meet the requirement of 5 percent (1 per 20 field samples). Two additional field split samples were collected at locations 11C and 12B; however, the additional sample was not identified on the field chain-of-custody documentation. As such, the additional sample volumes were not analyzed. Generally, field split precision was less than 50 percent RPD and did not indicate issues with heterogeneity of the matrix. No data were qualified because of field split precision.

The frequency criterion for MSD or MD pairs is 5 percent of the samples (per matrix) or one per each analytical batch of 20 or less per matrix. MSD or MD samples were collected, analyzed, and evaluated for each analysis performed on every sample matrix. The frequencies in which MSDs or MDs were prepared and analyzed by the laboratory met the frequency requirement as stated above. Table 9 presents data qualified as estimated based on MSD or MD precision. No data were rejected due to poor duplicate precision.

2.2.2 Accuracy

Accuracy is the degree to which a measurement agrees with its true value and is expressed as percent recovery. Accuracy is assessed by comparing MS, LCS, surrogate recoveries, and tracer yields with associated QC limits. MS, LCS, and tracer isotope recoveries were evaluated for compliance with acceptance criteria for each applicable analytical methodology.

The frequency criterion for MSs and LCSs is 5 percent of the samples per matrix or one per each analytical batch of 20 samples or less per matrix. MSs and LCSs were collected, analyzed, and evaluated for each analysis performed at the proper frequency. The criterion for MS and LCS accuracy is based on recommended QC limits provided in EPA validation guidelines and on laboratory historical QC limits for those analytes not presented in validation guidelines. Data were qualified as estimated based on tracer yields. Radium-228 data were rejected due to high recoveries of the LCS. Table 7 presents data that were qualified based on spiked sample recoveries. Table 8 presents data that were qualified based on tracer yield. Data were rejected based on accuracy issues (LCS recovery). The rejection of the radium-228 results from the BRC/TIMET dataset reduced the total number of valid data points for the mixed (River and McCullough) sampling location to only three points. As such, the comparison of sample origin conducted during the statistical evaluations for radium-228 was not conducted due to insufficient number of valid results (minimum of 4 valid results necessary to conduct the comparisons). Sufficient valid results were remaining for radium-228 to conduct the statistical evaluation of depth.

2.2.3 Representativeness

Representativeness is a qualitative parameter and is defined by the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or a process or environmental condition. Sample results were evaluated for representativeness by examining items related to sample collection, including chain-of-custody documentation, sample labeling, collection dates, and condition of the samples upon receipt at the laboratory. Laboratory procedures also were examined, including anomalies reported by the laboratory, either upon receipt of the samples at the laboratory or during analytical processes, adherence to recommended holding times of samples prior to analysis, calibration of laboratory instruments, adherence to analytical methods, and completeness of data package documentation. Two aspects of sample collection and handling affected data quality: (1) holding time exceedances, and (2) the condition of sample receipt.

Sample results were qualified as estimated where holding times were exceeded, and one sample result was qualified as rejected (R) due to an excessively long holding time. Table 5 presents the sample results qualified for holding time exceedances. As stated in [Section 2.1.1](#), biases were not determined for anions and pH. The rejected result is not usable for further evaluation of background characteristics.

In addition to holding times discussed above, representativeness is evaluated by reviewing blanks (laboratory method blanks and field QC blanks). Laboratory and field QC blanks contained detectable amounts of metals, radionuclides, and wet chemistries (listed in [Section 2.1.3](#)). Generally, concentrations

detected in the blanks were considerably less than reported results for the field samples; therefore, these concentrations did not affect overall data quality. Sample results qualified based on laboratory blanks are presented in Table 6. No results were qualified due to field QC blanks. Most of the affected data were qualified as undetected (U). Positive results, qualified as estimated (J) due to blank contamination, were considered biased high (+).

Sample condition upon receipt is another element of representativeness that was evaluated. One sample shipping container (cooler) was received with a temperature reading of 9°C. The ambient temperature on the day of collection (June 15, 2005) was in excess of 100°F, so sample temperatures were significantly reduced from time of sampling to laboratory receipt. The temperature excursion was only a few degrees higher than recommended. Since all analytes being reported are not temperature sensitive (non-volatile metals, radionuclides, and anions), then it is the professional judgment of the reviewer that no qualification of sample results was required and sample integrity was not compromised.

2.2.4 Completeness

Completeness is defined as the percentage of measurements judged to be valid. The validity of sample results is determined through the data validation process. All rejected sample results are considered to be incomplete. Data that are qualified as undetected (U), undetected at estimated reporting limits (UJ), and estimated (J) are considered to be valid and usable. The number of valid results divided by the number of possible individual analyte results, expressed as a percentage, determines the completeness of the data set.

For background soil data collected during this event, 22 sample results were rejected (R) ([Section 2.1.8](#)). The total number of records in the background sampling event database is 11,268. Of that, 2,495 are QC results (including laboratory QC samples and rinseate blanks) and 8,773 are field sample results (including the original field samples and the three field split samples). Of the field sample results, 106 results are flagged as not reportable (X), leaving 8,667 records of reportable field results. If 22 results are rejected from a total of 8,667 reportable field sample results, then the number of valid field sample results is 8,645. The percent complete (valid and not rejected) is 98.5 percent. This meets the completeness goal of 90 percent.

2.2.5 Comparability

Comparability of the data is a qualitative parameter that expresses the confidence with which one data set may be compared with another. Comparability of the data is achieved by using standard methods for sampling and analysis, reporting data in standard units, normalizing results to standard conditions, and

using standardized reporting formats and data validation procedures. Data collected during this event uses the same or very similar analytical methods as other data collected during investigations conducted at the BMI complex and TIMET facility. It is understood that prior to direct comparison of results from this study to any other investigation, a thorough comparison of methodologies will be conducted. Concurrent with the preparation of this DVSR, alternative analytical methods are being evaluated for the analysis of radium isotopes in order to ensure the best comparison between existing background data and those obtained from this and future data collection events.

2.2.6 Sensitivity

Sensitivity is the measure of the signal from an instrument that represents an actual deflection or response above instrument noise. Analytical sensitivity is measured by the MDL and is reported with the necessary dilution factors, preparation factors, and dry-weight factors of an individual sample as the SQL. The sensitivity requirements were based on the laboratory's ability to detect and report consistent and reliable limits.

For the purposes of establishing background concentrations, the laboratory was instructed to provide the lowest feasible detection limit (MDL) that can be achieved on the sample matrix. Sample-specific characteristics and preparation factors were used to calculate the SQL for each analyte and each sample, based on these lowest achievable MDLs. Detected results will be directly evaluated by statistical methods to establish background concentrations. For stable chemistry analytes, non-detects will be handled according to the statistical evaluation methods used and discussed in the background data evaluation document. For radiochemical analytes, the actual numerical value calculated as the MDC will be used in statistical evaluation; even if the analyte is not detected.

Scenarios involving dilutions, high moisture content, and matrix interference affect the SQL by raising it according to the dilution factor or percent moisture content. Dilutions were required for numerous metals and anion analyses because of high concentrations. Whenever the concentration exceeded the linear range of the instrumentation, dilutions were analyzed. All dilutions were reported.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This section summarizes the conclusions and recommendations regarding usability of the data for the project objectives. Based on the evaluation of each data set, greater than 90 percent of the groundwater data obtained during this reporting period are valid (that is, not rejected) and acceptable for their intended use. Biased data will be used as follows:

- Biased high results based on spike recoveries and blank contamination will be used as the upper limit of concentration for the analyte, recognizing that the actual value may be lower.
- Biased low results based on spike recoveries and method biases will be used as the lower limit of concentration for the analyte, recognizing that the actual value may be higher.

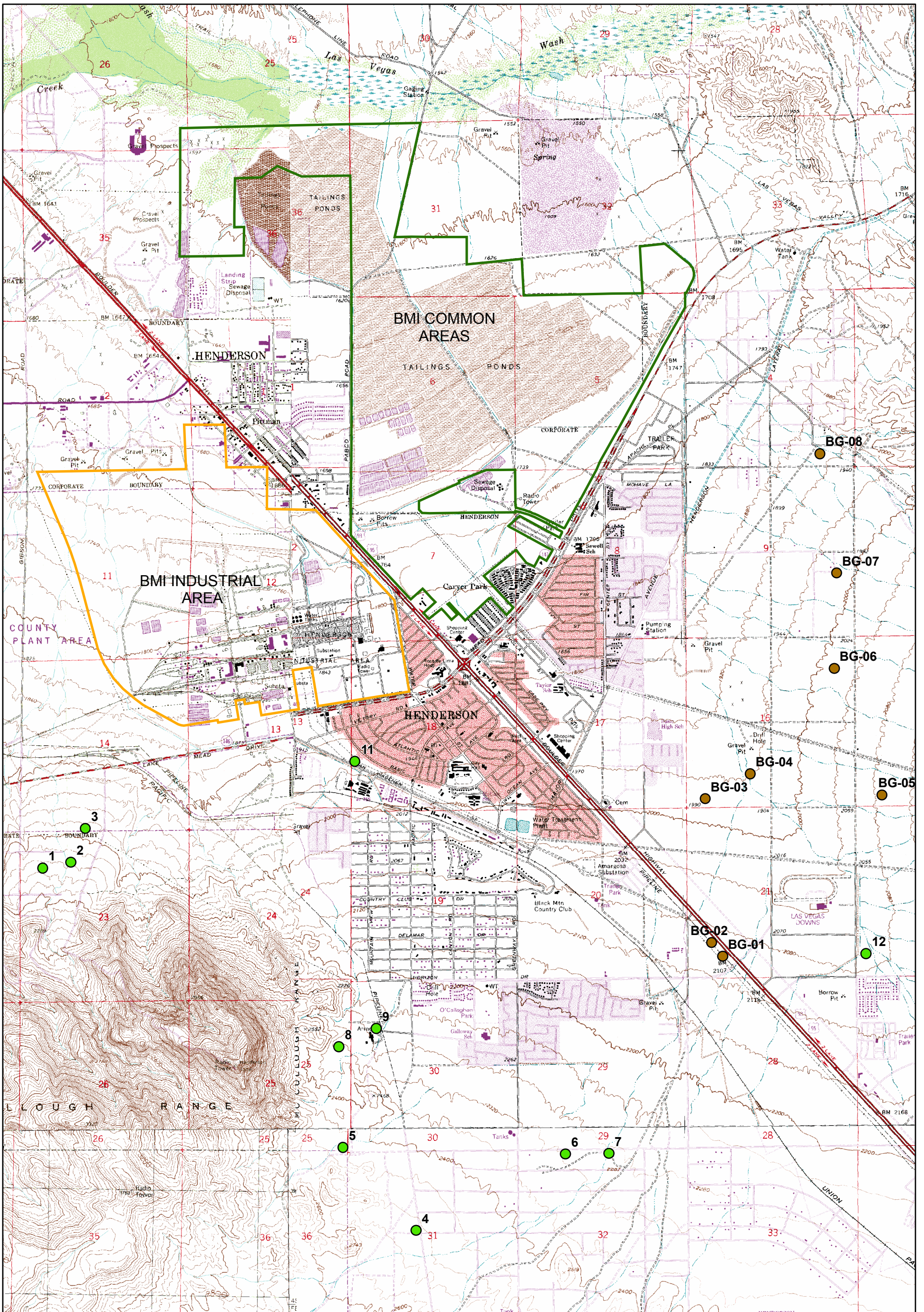
All validated data points may be considered for use in other purposes that extend beyond the original project objectives; however, limitations may exist, as with the radium-228 results discussed in Section 2.2.2. Other limitations on data usability for future purposes may arise, but are not addressed in the scope of this document. These limitations will be identified through subsequent data evaluations and mitigated where possible by collecting additional data in future investigations.

REFERENCES

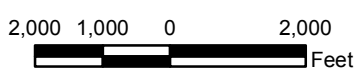
- American Society for Testing and Materials. 1998. "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass." February.
- Environ. 2003. "Risk Assessment for the Water Reclamation Facility Expansion Site, Henderson, Nevada." Volume II, Appendix E. October 15.
- Environmental Resources Management and Tetra Tech EM, Inc. (Tetra Tech). 2005. "Background Soil Sampling Workplan, BMI Common Areas and Complex Vicinity." April.
- Severn Trent Laboratories (STL). 2006. Letter regarding summary of BRC Ra-226 Background Samples Apparent Low Bias. From William Deckelmann, Laboratory Director, STL St. Louis. To Ranajit Sahu, Project Manager, Basic Remediation Corporation. March 7.
- Tetra Tech. 2004. Letter regarding project management team resumes. From Victoria Coker, Project Manager. To Brian Rakvica, Staff Engineer III, Nevada Division of Environmental Protection. March 1.
- U.S. Department of Energy (DOE). 1997a. "HASL-300 Procedures Manual." 28th Edition. Environmental Measurements Laboratory. New York, New York. February.
- DOE. 1997b. "Evaluation of Radiochemical Data Usability." Office of Environmental Management. Oak Ridge, Tennessee. April.
- U.S. Environmental Protection Agency (EPA). 1980. "Prescribed Procedures for Measurement of Radioactivity in Drinking Water." EPA 600/4-80-032. August.
- EPA. 1983. "Methods for Chemical Analysis of Water and Wastes." EPA 600/4-79/020. Environmental Monitoring and Support Laboratory (EMSL), Cincinnati, OH. March.
- EPA. 1996. "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods." SW-846. Third Edition. Update III. December.
- EPA. 2001. "Region 9 Superfund Data Evaluation/Validation Guidance." DRAFT. R9QA/006.1. Region 9 Quality Assurance Office. San Francisco, California. December.
- EPA. 2004a. "Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)." EPA 402-B-04-001A. Washington, D.C. July.
- EPA. 2004b. "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review." EPA 540/R-04/004. OSWER. Washington, D.C. October.

DATA VALIDATION SUMMARY REPORT

FIGURE



- Proposed Background Soil Sample Location
- ENVIRON Background Soil Sample Location



BMI Site
Henderson, Nevada

FIGURE 1

SITE LOCATION AND TOPOGRAPHIC MAP

Nevada-Clark Co. 7.5 Minute Series (Topographic)
Henderson, Nevada SE, Boulder City NW, and Sloan NE Quadrangles

| | | |
|---------------------|------------------|---|
| Prepared by: MKJ | Date 04/08/05 | JOB No. 1881262 FILE: GIS/BRC/BKGD_FIGURE1.MXD |
|---------------------|------------------|---|

DATA VALIDATION SUMMARY REPORT

TABLES

TABLE 1
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Sample ID | Date Sampled | SDG ID | Matrix | Validation | Analysis Conducted | | | | | | | | | | |
|--------------------------------|--------------|-----------|--------|------------|--------------------|------------|----------------|--------------|-------|-------|----|------------------|-----|--------------------------|----|
| | | | | | Isotopic U & Th | Gamma Spec | Ra 226 and 228 | Total Metals | Cr VI | Anion | pH | Percent Moisture | CEC | Gross α & β | |
| BRC-BCG-03A 3-7 ^a | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BCG-06C 8-12 ^a | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BCG-09C 0-0.5 ^a | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01A 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01A 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01A 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01B 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01B 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01B 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01C 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01C 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-01C 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02A 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02A 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02A 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02B 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02B 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02B 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02C 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02C 4-6 | 06/16/05 | F5F180132 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-02C 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03A 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03A 3-7 | 06/16/05 | F5F180132 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03A 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03B 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03B 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Sample ID | Date Sampled | SDG ID | Matrix | Validation | Analysis Conducted | | | | | | | | | | |
|--------------------|--------------|-----------|--------|------------|--------------------|------------|----------------|--------------|-------|-------|----|------------------|-----|--------------------------|----|
| | | | | | Isotopic U & Th | Gamma Spec | Ra 226 and 228 | Total Metals | Cr VI | Anion | pH | Percent Moisture | CEC | Gross α & β | |
| BRC-BKG-03B 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03C 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03C 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-03C 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04A 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04A 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04A 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04B 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04B 4-6 | 06/14/05 | F5F160308 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04B 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04C 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04C1 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04C 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-04C 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05A 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05A 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05AR 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05AR 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05AR 9-11 | 06/17/05 | F5F210233 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05B 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05BR 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05BR 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05BR 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05C 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05CR 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05CR 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-05CR 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06A 0-0.5 | 06/15/05 | F5F170373 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Sample ID | Date Sampled | SDG ID | Matrix | Validation | Analysis Conducted | | | | | | | | | | |
|-------------------|--------------|-----------|--------|------------|--------------------|------------|----------------|--------------|-------|-------|----|------------------|-----|--------------------------|----|
| | | | | | Isotopic U & Th | Gamma Spec | Ra 226 and 228 | Total Metals | Cr VI | Anion | pH | Percent Moisture | CEC | Gross α & β | |
| BRC-BKG-06A 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06A 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06B 0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06B 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06B 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06C 0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06C 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-06C 8-12 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07A 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07A 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07A 9-11 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07B 0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07B 4-6 | 06/15/05 | F5F170373 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07B 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07C 0-0.5 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07C 4-6 | 06/16/05 | F5F180132 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-07C 9-11 | 06/16/05 | F5F180132 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08A-0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08A 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08A 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08B 0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08B 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08B 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08C 0-0.5 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08C 4-6 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-08C 9-11 | 06/15/05 | F5F170373 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09A 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-A 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Sample ID | Date Sampled | SDG ID | Matrix | Validation | Analysis Conducted | | | | | | | | | | |
|--------------------|--------------|-----------|--------|------------|--------------------|------------|----------------|--------------|-------|-------|----|------------------|-----|--------------------------|----|
| | | | | | Isotopic U & Th | Gamma Spec | Ra 226 and 228 | Total Metals | Cr VI | Anion | pH | Percent Moisture | CEC | Gross α & β | |
| BRC-BKG-09-A 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-B 0-0.5 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-B 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-B 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-C 0-0.5 | 06/14/05 | F5F160308 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-C 4-6 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-09-C 9-11 | 06/14/05 | F5F160308 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11A 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11A 4-6 | 06/17/05 | F5F210233 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11A 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11B 0-0.5 | 06/17/05 | F5F210233 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11B 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11B 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11C 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11C 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-11C 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12A 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12A 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12A 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12B 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12B 4-6 | 06/17/05 | F5F210233 | Soil | Full | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12B 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12C 0-0.5 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12C 4-6 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| BRC-BKG-12C 9-11 | 06/17/05 | F5F210233 | Soil | Partial | X | X | X | X | X | X | X | X | X | X | -- |
| RINSATE BLANK | 06/16/05 | F5F170373 | Water | Partial | X | X | X | X | X | -- | -- | -- | -- | -- | X |
| RINSATE BLANK | 06/16/05 | F5F180132 | Water | Partial | X | X | X | X | X | -- | -- | -- | -- | -- | -- |
| RINSATE BLANK-RB | 06/17/05 | F5F210233 | Water | Partial | X | X | X | X | X | -- | -- | -- | -- | -- | X |

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

| | |
|--------------------|--------------------------|
| α & β | Alpha and beta |
| CEC | Cation exchange capacity |
| Cr VI | Hexavalent chromium |
| Ra | Radium |
| SDG | Sample delivery group |
| Spec | Spectroscopy |
| Th | Thorium |
| U | Uranium |

^a Three sample represent the field split samples used for quality control purposes.

TABLE 2
DATA VALIDATION CRITERIA
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Inorganics Validation Criteria ¹ | Full | Partial |
|--|-------------|----------------|
| Holding times | X | X |
| Calibration (initial and continuing) | X | -- |
| Blanks (laboratory and field) | X | X |
| ICP interference check sample | X | -- |
| Laboratory control sample | X | X |
| Duplicate sample analysis | X | X |
| Matrix spike analysis | X | X |
| ICP serial dilution | X | X |
| Tracer yield (radionuclide analysis only) | X | X |
| Sample results verification | X | -- |
| Field duplicate | X | X |
| Overall assessment of data set | X | X |

Notes:

-- Not included
 ICP Inductively coupled plasma

1 Inorganics include metals, anions, and radionuclides.

TABLE 3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Validation Qualifier | Definition |
|-----------------------------|--|
| U | The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit. |
| UJ | The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise. |
| J | The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample. |
| R | The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample. |
| X | Result is not used for reporting because a more accurate and precise results is reported in its place. |
| + | Estimated results are possibly biased high based on associated quality control |
| - | Estimated results are possibly biased low based on associated quality control |
| Comment Code | Definition |
| a | Surrogate recovery exceeded |
| b | Laboratory method blank and common blank contamination |
| c | Calibration criteria exceeded |
| d | Duplicate precision criteria exceeded |
| e | Matrix spike or laboratory control sample recovery exceeded |
| f | Field blank contamination |
| g | Quantification below practical quantitation limit for stable chemistries |
| h | Holding time exceeded |
| i | Internal standard criteria exceeded |
| j | Other stable chemistry qualification (for example, serial dilution exceedances) |
| k | Radiochemistry quantitation issue (for example, result less than the required reporting limit) |
| l | Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy) |
| m | Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis) |
| n | Radiochemistry tracer yield criteria exceeded |
| o | Other radiochemistry qualification (for example, biases due to interference from other radioisotopes) |

TABLE 4
HOLDING TIMES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| Parameter | Aqueous Matrix | Soil/Sediment Matrix |
|--|--|--|
| Total metals (except mercury) | 180 days | 180 days |
| Total mercury | 28 days | 28 days |
| Hexavalent chromium | 24 hours | 30 days |
| Bicarbonate alkalinity | 14 days | 14 days |
| Anions (fluoride, chloride, nitrate, nitrite, and sulfate) | 28 days; 48 hours for nitrate and nitrite only | 28 days for all; 72 hours for nitrate and nitrite ¹ |
| pH | 48 hours | 72 hours ² |
| Radionuclides | 180 days | 180 days |
| Cation exchange capacity (calculated) | Not applicable | Not applicable |

Notes:

¹ No definite holding time has been established for anions in soil. The laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer.

² No definite holding time has been established for pH in soil. The laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer.

TABLE 5
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Nitrate | 0.1 | 0.35 | | J | h | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | pH (solid) | | 9.1 | | J | h | none |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Nitrate | 0.11 | 0.62 | | J | h | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Nitrate | 0.1 | 0.22 | | J | h | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Nitrate | 0.11 | 0.71 | | J | h | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Nitrate | 0.1 | 1 | | J | h | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | pH (solid) | | 8.1 | | J | h | none |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | pH (solid) | | 8.7 | | R | h | none |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Nitrate | 0.11 | 3.4 | | J | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Nitrite | 0.065 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Nitrate | 0.1 | 3.3 | | J | h | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Nitrate | 0.11 | 0.93 | | J | h | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Nitrite | 0.066 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Nitrate | 0.1 | 1.3 | | J | h | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Nitrate | 0.1 | 2.6 | | J | h | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Nitrate | 0.1 | 9.3 | | J | h | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Nitrite | 0.061 | 0.15 | B | J | h, g | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Nitrate | 1 | 58.6 | | J | h | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Nitrate | 1 | 20.8 | | J | h | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Nitrate | 1 | 54.9 | | J | h | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Nitrate | 0.1 | 10.4 | | J | h | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Nitrate | 0.11 | 1.8 | | J | h | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Nitrite | 0.065 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Nitrate | 0.1 | 3.2 | | J | h | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Nitrate | 0.1 | 0.41 | | J | h | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Nitrite | 0.062 | 0.16 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Nitrate | 0.1 | 6.7 | | J | h | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Nitrate | 0.1 | 3.8 | | J | h | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | pH (solid) | | 8.3 | | J | h | none |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Nitrate | 0.1 | 2.8 | | J | h | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Nitrate | 1 | 53.4 | | J | h | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | pH (solid) | | 8.1 | | J | h | none |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Nitrate | 5.2 | 34 | | J | h | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | pH (solid) | | 8.1 | | J | h | none |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Nitrate | 0.1 | 6.2 | | J | h | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Nitrate | 0.1 | 0.47 | | J | h | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Nitrate | 0.1 | 4.7 | | J | h | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | pH (solid) | | 8 | | J | h | none |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Nitrate | 0.1 | 1.5 | | J | h | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Nitrate | 0.1 | 0.31 | | J | h | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Nitrate | 5.1 | 102 | | J | h | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Nitrate | 1 | 42.1 | | J | h | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Nitrate | 0.1 | 0.19 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Nitrate | 1 | 75.8 | | J | h | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Nitrate | 1 | 34.5 | | J | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | pH (solid) | | 8.3 | | J | h | none |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Nitrate | 0.1 | 0.37 | | J | h | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Nitrate | 1 | 14.6 | | J | h | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Nitrate | 0.1 | 2.1 | | J | h | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | pH (solid) | | 8.3 | | J | h | none |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Nitrate | 0.1 | 0.25 | | J | h | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Nitrite | 0.061 | 0.15 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Nitrate | 1 | 26.1 | | J | h | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Nitrate | 1 | 26.3 | | J | h | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Nitrate | 5.1 | 14.9 | | J | h | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Nitrite | 0.061 | 0.21 | | J | h | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Nitrate | 0.11 | 0.66 | | J | h | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | pH (solid) | | 8.1 | | J | h | none |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Nitrate | 0.1 | 2.9 | | J | h | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | pH (solid) | | 8 | | J | h | none |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | pH (solid) | | 8.1 | | J | h | none |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Nitrate | 5.2 | 86.2 | | J | h | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | pH (solid) | | 8.1 | | J | h | none |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Nitrate | 5.2 | 28.1 | | J | h | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | pH (solid) | | 8 | | J | h | none |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Nitrate | 0.1 | 0.13 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Nitrate | 0.1 | 0.11 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Nitrate | 0.1 | 0.18 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Nitrate | 0.11 | 1.6 | | J | h | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Nitrate | 0.11 | 0.67 | | J | h | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Nitrate | 0.1 | 0.58 | | J | h | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | pH (solid) | | 8 | | J | h | none |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Nitrate | 0.1 | 0.63 | | J | h | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Nitrate | 0.1 | 0.87 | | J | h | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | pH (solid) | | 8 | | J | h | none |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Nitrate | 0.1 | 0.51 | | J | h | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Nitrate | 0.1 | 1 | | J | h | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Nitrate | 0.1 | 0.2 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | pH (solid) | | 8.5 | | J | h | none |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Nitrate | 0.1 | 0.59 | | J | h | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | pH (solid) | | 9 | | J | h | none |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Nitrate | 0.1 | 0.61 | | J | h | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Nitrite | 0.063 | | U | UJ | h | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | pH (solid) | | 8.3 | | J | h | none |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Nitrate | 0.1 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Nitrate | 0.13 | 0.87 | | J | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Nitrite | 0.077 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Nitrate | 0.11 | 0.9 | | J | h | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Nitrate | 0.1 | 0.51 | | J | h | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Nitrate | 0.11 | 0.65 | | J | h | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Nitrate | 0.1 | 1.5 | | J | h | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Nitrate | 0.1 | 0.25 | | J | h | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Nitrate | 0.11 | 0.96 | | J | h | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Nitrite | 0.065 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | pH (solid) | | 8.7 | | J | h | none |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Nitrate | 0.1 | 1 | | J | h | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | pH (solid) | | 8.4 | | J | h | none |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Nitrate | 0.1 | 0.57 | | J | h | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Nitrite | 0.061 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | pH (solid) | | 8.8 | | J | h | none |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Nitrate | 0.11 | 2.4 | | J | h | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Nitrite | 0.065 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | pH (solid) | | 8.3 | | J | h | none |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Nitrate | 0.1 | 0.64 | | J | h | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Nitrite | 0.063 | ND | U | UJ | h | mg/kg |

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|---|-----------|---------|-------|
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | pH (solid) | | 8.2 | | J | h | none |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Nitrate | 0.1 | 0.45 | | J | h | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Nitrite | 0.062 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | pH (solid) | | 8.9 | | J | h | none |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Nitrate | 0.11 | 0.69 | | J | h | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | pH (solid) | | 8.6 | | J | h | none |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Nitrate | 0.1 | 0.49 | | J | h | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Nitrite | 0.064 | ND | U | UJ | h | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | pH (solid) | | 8.2 | | J | h | none |

Notes:

- B Analyte was detected at a concentration less than the PQL
- mg/kg Milligram per kilogram
- g Comment code for concentrations greater than the SQL, but less than the PQL
- h Comment code for holding time exceedance
- J Estimated value
- ND Not detected
- PQL Practical quantitation limit
- R Sample result was rejected due to quality control issues
- RL Reporting limit
- SDG Sample delivery group
- SQL Sample quantitation limit
- U Undetected
- UJ Undetected at an estimated quantitation limit

- 1 The RL in this table refers to the PQL for anions and pH.
- 2 "ND" indicates that the analyte was not detected above the associated SQL.

**TABLE 6
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA**

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Boron | 3.2 | 4.5 | B | U | b | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Fluoride | 0.053 | 0.89 | B J | U | b | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Radium 228 | 0.69 | 1.35 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Uranium 233/234 | 0.08 | 0.76 | J | U | b | pci/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Boron | 3.2 | 5 | B | U | b | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Fluoride | 0.054 | 1.5 | J | U | b | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Radium 228 | 0.687 | 1.91 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Thorium 231 | 0.081 | 0.087 | J | U | b | pci/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Uranium 233/234 | 0.1 | 0.85 | J | U | b | pci/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Boron | 3.2 | 3.5 | B | U | b | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Chloride | 0.25 | 0.38 | B | U | b | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Radium 228 | 0.588 | 1.46 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Sulfate | 0.62 | 1.6 | B J | U | b | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Thorium 231 | 0.04 | 0.059 | J | U | b | pci/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Tungsten | 0.0175 | 2.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Uranium 233/234 | 0.07 | 0.89 | J | U | b | pci/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Boron | 3.2 | 3.5 | B | U | b | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Fluoride | 0.053 | 0.76 | B J | U | b | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Radium 228 | 0.648 | 1.59 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Thorium 231 | 0.038 | 0.043 | J | U | b | pci/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Uranium 233/234 | 0.08 | 0.9 | J | U | b | pci/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Boron | 3.2 | 3.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Sulfate | 0.62 | 1.6 | B J | U | b | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Thorium 231 | 0.041 | 0.061 | J | U | b | pci/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Uranium 233/234 | 0.06 | 0.85 | J | U | b | pci/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Chloride | 0.26 | 1.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Fluoride | 0.054 | 1 | B J | U | b | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Radium 228 | 0.597 | 1.47 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Uranium 233/234 | 0.11 | 0.76 | J | U | b | pci/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Boron | 3.2 | 3.5 | B | U | b | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Chloride | 0.26 | 1.6 | B | U | b | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Fluoride | 0.053 | 1.6 | J | U | b | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Radium 228 | 0.446 | 0.946 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Thorium 231 | 0.096 | 0.101 | J | U | b | pci/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Uranium 233/234 | 0.1 | 0.86 | J | U | b | pci/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Boron | 3.2 | 4.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Radium 228 | 0.487 | 1.11 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Thallium | 0.5428 | 0.75 | B | U | b | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Thorium 231 | 0.063 | 0.101 | J | U | b | pci/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Uranium 233/234 | 0.08 | 0.97 | J | U | b | pci/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Boron | 3.2 | 5.6 | | J+ | b | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Chloride | 0.25 | 0.74 | B | U | b | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Niobium | 1.015 | 2.8 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Radium 228 | 0.495 | 1.82 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Thallium | 0.5428 | 0.5 | B | U | b | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Uranium 233/234 | 0.12 | 0.68 | J | U | b | pci/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Fluoride | 0.054 | 2.5 | J | J+ | b | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Niobium | 1.015 | | N U | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Uranium 233/234 | 0.09 | 1.07 | | U | b | pci/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Chloride | 0.25 | 1.1 | B | U | b | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Radium 228 | 0.463 | 1.78 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Sulfate | 0.62 | 3.3 | B | U | b | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Uranium 233/234 | 0.16 | 0.76 | J | U | b | pci/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Chloride | 0.25 | 1.1 | B | U | b | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Sulfate | 0.62 | 3 | B | U | b | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Thallium | 0.5428 | 1 | B | U | b | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Tungsten | 0.0175 | 0.86 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Uranium 233/234 | 0.1 | 0.9 | J | U | b | pci/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Boron | 3.2 | 3.6 | B | U | b | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Chloride | 0.27 | 1.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Fluoride | 0.055 | 2.1 | | U | b | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Radium 228 | 0.537 | 1.5 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Thorium 231 | 0.045 | 0.083 | J | U | b | pci/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Uranium 233/234 | 0.08 | 0.83 | J | U | b | pci/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Chloride | 0.25 | 0.51 | B | U | b | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Radium 228 | 0.443 | 1.86 | J | U | k, b | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Sulfate | 0.62 | 2.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Thorium 231 | 0.042 | 0.124 | J | U | b | pci/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Uranium 233/234 | 0.08 | 0.88 | J | U | b | pci/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Chloride | 0.25 | 1.8 | B | U | b | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Sulfate | 0.62 | 4.4 | B | U | b | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Thorium 231 | 0.048 | 0.054 | J | U | b | pci/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Uranium 233/234 | 0.07 | 1.16 | | U | b | pci/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Boron | 3.2 | 8.8 | | J+ | b | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Uranium 233/234 | 0.15 | 0.98 | J | U | b | pci/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Boron | 3.2 | 5.8 | | J+ | b | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Fluoride | 0.053 | 0.58 | B | U | b | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Thallium | 0.5428 | 0.98 | B | U | b | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Thorium 231 | 0.1 | 0.12 | J | U | b | pci/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Uranium 233/234 | 0.11 | 0.92 | J | U | b | pci/g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Boron | 3.2 | 5.5 | | J+ | b | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Fluoride | 0.053 | 0.93 | B | U | b | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Thorium 231 | 0.077 | 0.087 | J | U | b | pci/g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Uranium 233/234 | 0.1 | 0.95 | J | U | b | pci/g |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Boron | 3.2 | 9.1 | | J+ | b | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Fluoride | 0.053 | 1.4 | | U | b | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Thallium | 0.5428 | 0.71 | B | U | b | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Tungsten | 0.0175 | 0.84 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Uranium 233/234 | 0.11 | 0.94 | J | U | b | pci/g |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Boron | 3.2 | 3.9 | B | U | b | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Fluoride | 0.052 | 1 | | U | b | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Uranium 233/234 | 0.08 | 1.25 | | J+ | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Boron | 3.2 | 4.9 | B | U | b | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Chloride | 0.25 | 1.6 | B | U | b | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Thorium 231 | 0.036 | 0.054 | J | U | b | pci/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Uranium 233/234 | 0.06 | 0.79 | J | U | b | pci/g |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Boron | 3.2 | 4.9 | B | U | b | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Chloride | 0.25 | 1.3 | B | U | b | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Sulfate | 0.62 | 4.8 | B | U | b | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Uranium 233/234 | 0.05 | 0.95 | J | U | b | pci/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Boron | 3.2 | 6.8 | | J+ | b | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Fluoride | 0.054 | 1.2 | | U | b | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Thallium | 0.5428 | 1.1 | B | U | b | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Uranium 233/234 | 0.11 | 0.76 | J | U | b | pci/g |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Boron | 3.2 | 5.1 | B | U | b | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Fluoride | 0.053 | 1.6 | | U | b | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Boron | 3.2 | 7.5 | | J+ | b | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Thallium | 0.5428 | 0.57 | B | U | b | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Boron | 3.2 | 9.1 | | J+ | b | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Boron | 3.2 | 6.2 | | J+ | b | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Boron | 3.2 | 8.3 | | J+ | b | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Thallium | 0.5428 | 0.6 | B | U | b | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Boron | 3.2 | 6.3 | | J+ | b | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Boron | 3.2 | 4.3 | B | U | b | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Thallium | 0.5428 | 0.36 | B | U | b | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Tungsten | 0.0175 | 0.87 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Boron | 3.2 | 6.1 | | J+ | b | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Boron | 3.2 | 5.4 | | J+ | b | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Tungsten | 0.0175 | 0.88 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Boron | 3.2 | 4 | B | U | b | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Tungsten | 0.0175 | 0.67 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Boron | 3.2 | 3.8 | B | U | b | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Thallium | 0.5428 | 0.22 | B | U | b | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Thallium | 0.5428 | 0.54 | B | U | b | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Tungsten | 0.0175 | 0.62 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Thallium | 0.5428 | 0.47 | B | U | b | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Boron | 3.2 | 4.5 | B | U | b | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Thallium | 0.5428 | 0.43 | B | U | b | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|----------|-----------------|--------|-----|-----------|---------|-------|
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Thallium | 0.5428 | 0.6 | B | U | b | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Tungsten | 0.0175 | 0.78 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Thallium | 0.5428 | 0.51 | B | U | b | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Boron | 3.2 | 3.9 | B | U | b | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Thallium | 0.5428 | 0.4 | B | U | b | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Tungsten | 0.0175 | 2.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Thallium | 0.5428 | 0.87 | B | U | b | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Tungsten | 0.0175 | 0.71 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Thallium | 0.5428 | 0.48 | B | U | b | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Tungsten | 0.0175 | 0.7 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Thallium | 0.5428 | 0.66 | B | U | b | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Tungsten | 0.0175 | 0.74 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Boron | 3.2 | 5.8 | | J+ | b | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Tungsten | 0.0175 | 0.49 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Boron | 3.2 | 4.6 | B | U | b | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Thallium | 0.5428 | 0.74 | B | U | b | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Boron | 3.2 | 4.4 | B | U | b | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Thallium | 0.5428 | 0.76 | B | U | b | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Boron | 3.2 | 7.5 | | J+ | b | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Chloride | 0.25 | 1.6 | B J | U | b | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Sulfate | 0.62 | 3 | B | U | b | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Thallium | 0.5428 | 0.59 | B | U | b | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Uranium 233/234 | 0.12 | 0.63 | J | U | b | pci/g |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Boron | 3.2 | 3.8 | B | U | b | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Fluoride | 0.053 | 1.2 | | U | b | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Thallium | 0.5428 | 0.32 | B | U | b | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Thorium 231 | 0.05 | 0.12 | J | U | b | pci/g |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Boron | 3.2 | 7.1 | | J+ | b | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Fluoride | 0.052 | 0.72 | B | U | b | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Thallium | 0.5428 | 0.44 | B | U | b | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Thorium 231 | 0.039 | 0.043 | J | U | b | pci/g |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Boron | 3.2 | 6 | | J+ | b | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Fluoride | 0.051 | 0.36 | B | U | b | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Thallium | 0.5428 | 0.6 | B | U | b | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Thorium 231 | 0.037 | 0.042 | J | U | b | pci/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Uranium 233/234 | 0.05 | 0.72 | J | U | b | pci/g |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Boron | 3.2 | 5.9 | | J+ | b | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Fluoride | 0.052 | 0.6 | B | U | b | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Thallium | 0.5428 | 0.29 | B | U | b | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Boron | 3.2 | 11.6 | | J+ | b | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Fluoride | 0.052 | 0.61 | B | U | b | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Thallium | 0.5428 | 0.2 | B | U | b | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Uranium 233/234 | 0.11 | 1.02 | | U | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Boron | 3.2 | 4.6 | B | U | b | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Fluoride | 0.053 | 0.55 | B | U | b | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Thorium 231 | 0.068 | 0.093 | J | U | b | pci/g |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Boron | 3.2 | 3.7 | B | U | b | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Fluoride | 0.053 | 0.79 | B | U | b | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Thallium | 0.5428 | 0.39 | B | U | b | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Thorium 231 | 0.038 | 0.126 | J | J+ | b | pci/g |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Boron | 3.2 | 7.8 | | J+ | b | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Fluoride | 0.052 | 0.52 | B | U | b | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Thallium | 0.5428 | 0.74 | B | U | b | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Uranium 233/234 | 0.03 | 1.02 | | U | b | pci/g |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Boron | 3.2 | 4.8 | B | U | b | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Fluoride | 0.053 | 0.77 | B | U | b | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Thorium 231 | 0.066 | 0.089 | J | U | b | pci/g |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Tungsten | 0.0175 | 0.99 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Boron | 3.2 | 3.9 | B | U | b | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Fluoride | 0.053 | 0.75 | B | U | b | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Thorium 231 | 0.03 | 0.21 | J | J+ | b | pci/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Boron | 3.2 | 4.2 | B | U | b | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Fluoride | 0.052 | 0.36 | B | U | b | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Thallium | 0.5428 | 0.68 | B | U | b | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Thorium 231 | 0.051 | 0.076 | J | U | b | pci/g |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Tungsten | 0.0175 | 0.77 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Uranium 233/234 | 0.09 | 1.22 | | J+ | b | pci/g |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Boron | 3.2 | 3.5 | B | U | b | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Thallium | 0.5428 | 0.79 | B | U | b | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Uranium 233/234 | 0.08 | 0.92 | J | U | b | pci/g |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Boron | 3.2 | 3.4 | B | U | b | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Fluoride | 0.052 | 0.32 | B | U | b | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Thallium | 0.5428 | 0.47 | B | U | b | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Uranium 233/234 | 0.07 | 1.16 | | U | b | pci/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Boron | 3.2 | 5.9 | | J+ | b | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Chloride | 0.25 | 1.5 | B | U | b | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Fluoride | 0.052 | 0.34 | B | U | b | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Thallium | 0.5428 | 0.2 | B | U | b | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Tungsten | 0.0175 | 0.75 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Uranium 233/234 | 0.12 | 1 | J | U | b | pci/g |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Boron | 3.2 | 4.1 | B | U | b | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Niobium | 1.015 | 2.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Thallium | 0.5428 | 0.61 | B | U | b | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Uranium 233/234 | 0.1 | 1.01 | | U | b | pci/g |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Boron | 3.2 | 3.7 | B | U | b | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Fluoride | 0.052 | 0.76 | B | U | b | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Uranium 233/234 | 0.09 | 1.03 | | U | b | pci/g |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Boron | 3.2 | 5.7 | | J+ | b | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Chloride | 0.25 | 1.6 | B | U | b | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Fluoride | 0.052 | 0.32 | B | U | b | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Thallium | 0.5428 | 0.52 | B | U | b | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Uranium 233/234 | 0.15 | 1.22 | | J+ | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Boron | 3.2 | 3.8 | B | U | b | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Thallium | 0.5428 | 0.56 | B | U | b | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Uranium 233/234 | 0.15 | 1.14 | | U | b | pci/g |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Boron | 3.2 | 4.9 | B | U | b | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Fluoride | 0.052 | 0.4 | B | U | b | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Niobium | 1.015 | 2 | BN | U | b | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Thallium | 0.5428 | 0.38 | B | U | b | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Tungsten | 0.0175 | 2.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Uranium 233/234 | 0.13 | 1.17 | | U | b | pci/g |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Boron | 3.2 | 6.1 | | J+ | b | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Chloride | 0.25 | 0.77 | B | U | b | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Sulfate | 0.62 | 2.2 | B | U | b | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Thallium | 0.5428 | 0.96 | B | U | b | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Uranium 233/234 | 0.07 | 0.85 | J | U | b | pci/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Boron | 3.2 | 6.8 | | J+ | b | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Fluoride | 0.052 | 0.63 | B | U | b | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Thallium | 0.5428 | 0.28 | B | U | b | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Tungsten | 0.0175 | 2.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Uranium 233/234 | 0.1 | 1.16 | | U | b | pci/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Boron | 3.2 | 4.4 | B | U | b | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Thallium | 0.5428 | 0.39 | B | U | b | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Uranium 233/234 | 0.07 | 0.95 | J | U | b | pci/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Boron | 3.2 | 4.9 | B | U | b | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Fluoride | 0.052 | 1 | | U | b | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|-----|-----------|---------|-------|
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Thallium | 0.5428 | 0.24 | B | U | b | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Thorium 231 | 0.042 | 0.077 | J | U | b | pci/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Boron | 3.2 | 5.2 | | J+ | b | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Chloride | 0.25 | 1.4 | B J | U | b | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Sulfate | 0.62 | 3.5 | B | U | b | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Thallium | 0.5428 | 0.43 | B | U | b | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Uranium 233/234 | 0.06 | 1.05 | | U | b | pci/g |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Boron | 3.2 | 8.3 | | J+ | b | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Fluoride | 0.054 | 0.32 | B | U | b | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Thallium | 0.5428 | 0.59 | B | U | b | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Thorium 231 | 0.1 | 0.13 | J | U | b | pci/g |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Uranium 233/234 | 0.12 | 1.23 | | J+ | b | pci/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Boron | 3.2 | 7.7 | | J+ | b | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Fluoride | 0.053 | 0.23 | B | U | b | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Thallium | 0.5428 | 0.21 | B | U | b | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Thorium 231 | 0.094 | 0.099 | J | U | b | pci/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Boron | 3.2 | 5.3 | | J+ | b | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Chloride | 0.25 | 1.7 | B J | U | b | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Sulfate | 0.62 | 4.4 | B | U | b | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Thallium | 0.5428 | 0.63 | B | U | b | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Thorium 231 | 0.072 | 0.098 | J | U | b | pci/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Tungsten | 0.0175 | 0.95 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Uranium 233/234 | 0.09 | 0.84 | J | U | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Boron | 3.2 | 4.8 | B | U | b | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Fluoride | 0.053 | 0.29 | B | U | b | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Thallium | 0.5428 | 0.59 | B | U | b | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Uranium 233/234 | 0.12 | 1.07 | | U | b | pci/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Boron | 3.2 | 8.6 | | J+ | b | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Thorium 231 | 0.1 | 0.13 | J | U | b | pci/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Boron | 3.2 | 4 | B | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Chloride | 0.25 | 0.96 | B | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Niobium | 1.015 | 2.4 | BN | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.119 | 0.63 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Radium 226 | 0.119 | 0.63 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Sulfate | 0.61 | 3.1 | B | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Thallium | 0.5428 | 0.87 | B | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Thorium 231 | 0.049 | 0.054 | J | U | b | pci/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Tungsten | 0.0175 | 1.1 | B | U | b | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Uranium 233/234 | 0.1 | 0.8 | J | U | b | pci/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Chloride | 0.26 | 0.86 | B | U | b | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Niobium | 1.015 | 1.6 | BN | U | b | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Tungsten | 0.0175 | 0.99 | B | U | b | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Uranium 233/234 | 0.06 | 0.77 | J | U | b | pci/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Boron | 3.2 | 4.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Thallium | 0.5428 | 0.9 | B | U | b | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Tungsten | 0.0175 | 0.81 | B | U | b | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Uranium 233/234 | 0.13 | 0.68 | J | U | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Boron | 3.2 | 4.9 | B | U | b | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Chloride | 0.25 | 0.72 | B | U | b | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Sulfate | 0.62 | 1.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Thallium | 0.5428 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Thorium 231 | 0.1 | 0.13 | J | U | b | pci/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Tungsten | 0.0175 | 0.9 | B | U | b | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Uranium 233/234 | 0.11 | 0.98 | J | U | b | pci/g |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Boron | 3.2 | 4.1 | B | U | b | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Tungsten | 0.0175 | 0.65 | B | U | b | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Uranium 233/234 | 0.08 | 1.05 | | U | b | pci/g |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Boron | 3.2 | 10.2 | | J+ | b | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Chloride | 2.6 | 6.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Thallium | 0.5428 | 0.38 | B | U | b | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Tungsten | 0.0175 | 0.94 | B | U | b | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Boron | 3.2 | 4.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Thallium | 0.5428 | 0.21 | B | U | b | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Tungsten | 0.0175 | 0.67 | B | U | b | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Boron | 3.2 | 4.1 | B | U | b | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Thallium | 0.5428 | 0.25 | B | U | b | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Tungsten | 0.0175 | 0.66 | B | U | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Boron | 3.2 | 8.2 | | J+ | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Chloride | 0.25 | 1.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Sulfate | 0.62 | 1.7 | B | U | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Thallium | 0.5428 | 0.52 | B | U | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Tungsten | 0.0175 | 1.6 | B | U | b | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Uranium 233/234 | 0.14 | 0.82 | J | U | b | pci/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Boron | 3.2 | 4.3 | B | U | b | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Thallium | 0.5428 | 0.29 | B | U | b | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Thorium 231 | 0.04 | 0.17 | J | U | b | pci/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Tungsten | 0.0175 | 1.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Boron | 3.2 | 3.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Chloride | 0.25 | 0.93 | B | U | b | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Sulfate | 0.62 | 3.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Thorium 231 | 0.07 | 0.13 | J | U | b | pci/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Tungsten | 0.0175 | 0.9 | B | U | b | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Uranium 233/234 | 0.14 | 0.71 | J | U | b | pci/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.197 | 0.756 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Radium 226 | 0.197 | 0.756 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Tungsten | 0.0175 | 0.78 | B | U | b | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Uranium 233/234 | 0.08 | 0.75 | J | U | b | pci/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Boron | 3.2 | 4.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Thallium | 0.5428 | 0.93 | B | U | b | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Tungsten | 0.0175 | 0.96 | B | U | b | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Uranium 233/234 | 0.11 | 0.58 | J | U | b | pci/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Chloride | 0.25 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.226 | 0.872 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Radium 226 | 0.226 | 0.872 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Sulfate | 0.61 | 2.7 | B | U | b | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Tungsten | 0.0175 | 0.68 | B | U | b | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Uranium 233/234 | 0.13 | 0.47 | J | U | b | pci/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Chloride | 0.26 | 1.7 | B | U | b | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|--|-----------------|--------|-----|-----------|---------|-------|
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.239 | 0.592 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Radium 226 | 0.239 | 0.592 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Thorium 231 | 0.068 | 0.076 | J | U | b | pci/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Tungsten | 0.0175 | 0.71 | B | U | b | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Uranium 233/234 | 0.05 | 0.9 | J | U | b | pci/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Boron | 3.2 | 4 | B | U | b | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Thallium | 0.5428 | 0.95 | B | U | b | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Tungsten | 0.0175 | 1.5 | B | U | b | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Uranium 233/234 | 0.07 | 0.89 | J | U | b | pci/g |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Chloride | 0.25 | 0.97 | B | U | b | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Sulfate | 0.62 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Tungsten | 0.0175 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Uranium 233/234 | 0.04 | 0.83 | J | U | b | pci/g |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Sulfate | 0.77 | 2.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Thallium | 0.5428 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Thorium 231 | 0.036 | 0.053 | J | U | b | pci/g |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Tungsten | 0.0175 | 1 | B | U | b | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Uranium 233/234 | 0.03 | 1.02 | | U | b | pci/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Thorium 231 | 0.033 | 0.037 | J | U | b | pci/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Tungsten | 0.0175 | 0.84 | B | U | b | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Uranium 233/234 | 0.03 | 0.96 | J | U | b | pci/g |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Chloride | 0.25 | 0.79 | B J | U | b | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Sulfate | 0.62 | 0.86 | B | U | b | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Tungsten | 0.0175 | 0.73 | B | U | b | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Uranium 233/234 | 0.11 | 0.83 | J | U | b | pci/g |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|--|-----------------|--------|-----|-----------|---------|-------|
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Boron | 3.2 | 3.5 | B | U | b | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Chloride | 0.26 | 1.6 | B J | U | b | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Sulfate | 0.64 | 3.1 | B | U | b | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Thallium | 0.5428 | 0.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Tungsten | 0.0175 | 0.64 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Uranium 233/234 | 0.09 | 0.95 | J | U | b | pci/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Boron | 3.2 | 3.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.176 | 0.978 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Radium 226 | 0.176 | 0.978 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thallium | 0.5428 | 0.58 | B | U | b | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 231 | 0.01 | 0.102 | J | U | b | pci/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Tungsten | 0.0175 | 0.51 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Uranium 233/234 | 0.14 | 1.23 | | J+ | b | pci/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Chloride | 0.25 | 0.84 | B J | U | b | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.104 | 0.977 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Radium 226 | 0.104 | 0.977 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Radium 228 | 0.452 | 1.93 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Uranium 233/234 | 0.08 | 1 | J | U | b | pci/g |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Thallium | 0.5428 | 0.5 | B | U | b | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Tungsten | 0.0175 | 0.99 | BE | UJ | b, j | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|-----|-----------|---------|-------|
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Uranium 233/234 | 0.12 | 1.14 | | U | b | pci/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.128 | 0.939 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Radium 226 | 0.128 | 0.939 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Thorium 231 | 0.081 | 0.087 | J | U | b | pci/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Uranium 233/234 | 0.1 | 1.04 | | U | b | pci/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Chloride | 0.25 | 1.3 | B J | U | b | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra- 226) | 0.143 | 0.999 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Radium 226 | 0.143 | 0.999 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Radium 228 | 0.44 | 1.34 | J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Sulfate | 0.62 | 1.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Thallium | 0.5428 | 0.25 | B | U | b | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Thorium 231 | 0.041 | 0.06 | J | U | b | pci/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Uranium 233/234 | 0.07 | 1.09 | | U | b | pci/g |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Boron | 3.2 | 7.3 | | J+ | b | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Thorium 231 | 0.039 | 0.058 | J | U | b | pci/g |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Tungsten | 0.0175 | 0.75 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Uranium 233/234 | 0.06 | 1.2 | | J+ | b | pci/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Boron | 3.2 | 8.5 | | J+ | b | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Fluoride | 0.053 | 0.24 | B | U | b | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Radium 228 | 0.69 | 1.68 | J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Thorium 231 | 0.1 | 0.18 | J | J+ | b | pci/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Tungsten | 0.0175 | 0.87 | BE | UJ | b, j | mg/kg |

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------------|-----------------|--------|-----|-----------|---------|-------|
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Boron | 3.2 | 3.7 | B | U | b | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Chloride | 0.25 | 0.79 | B J | U | b | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Sulfate | 0.62 | 1.2 | B | U | b | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Uranium 233/234 | 0.12 | 0.78 | J | U | b | pCi/g |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Radium 228 | 0.766 | 2 | J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Sulfate | 0.64 | 4.4 | B | U | b | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Boron | 3.2 | 5.8 | | J+ | b | mg/kg |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Radium 228 | 0.752 | 1.55 | J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |

Notes:

| | | | |
|-----|---|-------|--|
| + | Result is possibly biased high | mg/kg | Milligram per kilogram |
| - | Result is possibly biased low | MDC | Minimum detectable concentration |
| < > | Less than; greater than | N | Analyte identification is tentative |
| b | Qualified due to blank contamination | pCi/g | PicoCurie per gram |
| B | Reported value is greater than the SQL, but less than the PQL | PQL | Practical quantitation limit |
| e | Qualified due to matrix spike or laboratory control sample issues | RL | Reporting limit |
| E | Estimated due to possible matrix interference | SDG | Sample delivery group |
| j | Qualified due to other stable chemistry issues | SQL | Sample quantitation limit |
| k | Qualified because result is >MDC and < required reporting limit | U | Undetected |
| J | Result is estimated | UJ | Undetected with estimated quantitation limit |

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 7
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Barium | 0.152 | 183 | N | J | e | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Barium | 0.152 | 245 | N | J | e | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Barium | 0.152 | 220 | N | J | e | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Barium | 0.152 | 272 | N | J | e | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Barium | 0.152 | 445 | N | J | e | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Radium 228 | 0.764 | 1.6 | J | R | k, e | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Barium | 0.152 | 188 | N | J | e | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Barium | 0.152 | 197 | N | J | e | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Barium | 0.152 | 154 | N | J | e | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Antimony | 0.3298 | 0.28 | BN | J- | e, g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Niobium | 1.015 | 2.8 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Strontium | 0.0735 | 165 | N | J- | e | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Barium | 0.152 | 191 | N | J | e | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Barium | 0.152 | 218 | N | J | e | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Barium | 0.152 | 152 | N | J | e | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Barium | 0.152 | 143 | N | J | e | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Barium | 0.152 | 145 | N | J | e | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Niobium | 1.015 | 2.3 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Barium | 0.152 | 154 | N | J | e | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Barium | 0.152 | 142 | N | J | e | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Barium | 0.152 | 218 | N | J | e | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Barium | 0.152 | 171 | N | J | e | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Barium | 0.152 | 240 | N | J | e | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Barium | 0.152 | 146 | N | J | e | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Cadmium | 0.1291 | ND | N U | UJ- | e | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Antimony | 0.3298 | 0.28 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Zinc | 0.2207 | 51.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Zinc | 0.2207 | 48.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Zinc | 0.2207 | 39.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Zinc | 0.2207 | 51.2 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Antimony | 0.3298 | 0.17 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Zinc | 0.2207 | 41.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Zinc | 0.2207 | 41.9 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Zinc | 0.2207 | 52 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Zinc | 0.2207 | 39.7 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Zinc | 0.2207 | 40 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Zinc | 0.2207 | 42.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Antimony | 0.3298 | 0.18 | BN | J- | e, g | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Zinc | 0.2207 | 41.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Zinc | 0.2207 | 36 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Zinc | 0.2207 | 34.3 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Zinc | 0.2207 | 32.5 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Antimony | 0.3298 | 0.32 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Zinc | 0.2207 | 35.6 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Zinc | 0.2207 | 34.1 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Zinc | 0.2207 | 35.7 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Zinc | 0.2207 | 35.8 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Antimony | 0.3298 | 0.15 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Zinc | 0.2207 | 36.9 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Antimony | 0.3298 | 0.27 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Zinc | 0.2207 | 52.1 | N | J+ | e | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Zirconium | 0.0874 | 132 | NE | J- | j, e | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Zirconium | 0.0874 | 103 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Antimony | 0.3298 | 0.5 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Zirconium | 0.0874 | 121 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Zirconium | 0.0874 | 105 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Zirconium | 0.0874 | 106 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Antimony | 0.3298 | 0.46 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Zirconium | 0.0874 | 112 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Zirconium | 0.0874 | 117 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Antimony | 0.3298 | 0.29 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Zirconium | 0.0874 | 118 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Zirconium | 0.0874 | 108 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Zirconium | 0.0874 | 94.9 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Antimony | 0.3298 | 0.36 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Zirconium | 0.0874 | 120 | NE | J- | j, e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Zirconium | 0.0874 | 113 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Zirconium | 0.0874 | 107 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Antimony | 0.3298 | 0.23 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Zirconium | 0.0874 | 99.3 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Zirconium | 0.0874 | 125 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Zirconium | 0.0874 | 125 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Antimony | 0.3298 | 0.24 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Zirconium | 0.0874 | 130 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Niobium | 1.015 | 2.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Zirconium | 0.0874 | 138 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Antimony | 0.3298 | 0.16 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Niobium | 1.015 | 2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Zirconium | 0.0874 | 126 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Antimony | 0.3298 | 0.21 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Zirconium | 0.0874 | 134 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Antimony | 0.3298 | 0.17 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Strontium | 0.0735 | 184 | N | J- | e | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Strontium | 0.0735 | 239 | N | J- | e | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Antimony | 0.3298 | 0.23 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Strontium | 0.0735 | 145 | N | J- | e | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Antimony | 0.3298 | 0.35 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Strontium | 0.0735 | 294 | N | J- | e | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Strontium | 0.0735 | 234 | N | J- | e | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Strontium | 0.0735 | 240 | N | J- | e | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Antimony | 0.3298 | 0.32 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Strontium | 0.0735 | 144 | N | J- | e | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Strontium | 0.0735 | 219 | N | J- | e | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Antimony | 0.3298 | 0.15 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Radium 228 | 0.737 | 4.15 | | R | e | pCi/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Strontium | 0.0735 | 567 | N | J- | e | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Niobium | 1.015 | 1.2 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Radium 228 | 0.656 | 4.67 | | R | e | pCi/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Strontium | 0.0735 | 127 | N | J- | e | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Radium 228 | 0.999 | 6.42 | | R | e | pCi/g |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Strontium | 0.0735 | 230 | N | J- | e | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Radium 228 | 0.654 | 3.1 | | R | e | pCi/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Strontium | 0.0735 | 684 | N | J- | e | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Antimony | 0.3298 | 0.44 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Radium 228 | 0.8 | 3.76 | | R | e | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Radium 228 | 0.731 | 2.37 | | R | e | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Radium 228 | 0.825 | 3.13 | | R | e | pCi/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Antimony | 0.3298 | 0.4 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Barium | 0.152 | 185 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Radium 228 | 0.821 | 3.2 | | R | e | pCi/g |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Barium | 0.152 | 138 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Radium 228 | 0.86 | 2.12 | | R | e | pCi/g |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Antimony | 0.3298 | 0.41 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Barium | 0.152 | 166 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Radium 228 | 0.644 | 2.21 | | R | e | pCi/g |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Barium | 0.152 | 82.5 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Radium 228 | 0.511 | 2.19 | | R | e | pCi/g |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Barium | 0.152 | 114 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Radium 228 | 0.702 | 2.19 | | R | e | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Antimony | 0.3298 | 0.38 | BN | J- | e, g | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Barium | 0.152 | 162 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Radium 228 | 0.574 | 1.86 | J | R | k, e | pCi/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Barium | 0.152 | 102 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Radium 228 | 0.78 | 1.94 | J | R | k, e | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Barium | 0.152 | 604 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Niobium | 1.015 | 1.1 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Radium 228 | 0.6 | 1.8 | J | R | k, e | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Barium | 0.152 | 346 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Barium | 0.152 | 836 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Radium 228 | 0.666 | 1.71 | J | R | k, e | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Antimony | 0.3298 | 0.22 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Barium | 0.152 | 369 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Barium | 0.152 | 395 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Barium | 0.152 | 573 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Radium 228 | 0.67 | 1.52 | J | R | k, e | pCi/g |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Antimony | 0.3298 | 0.39 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Barium | 0.152 | 122 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Niobium | 1.015 | 1.6 | BN | UJ- | b, e | mg/kg |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|-----|-----------|---------|-------|
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Antimony | 0.3298 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Barium | 0.152 | 77.2 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Barium | 0.152 | 118 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Barium | 0.152 | 141 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Niobium | 1.015 | 2.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Niobium | 1.015 | 1.7 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Niobium | 1.015 | 2.1 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Niobium | 1.015 | 1.5 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Niobium | 1.015 | 1.4 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Radium 228 | 0.911 | 2.37 | | R | e | pCi/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Niobium | 1.015 | ND | N U | UJ- | e | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Radium 228 | 0.69 | 1.68 | J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Radium 228 | 0.75 | 2.51 | | R | e | pCi/g |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Niobium | 1.015 | 1.8 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Radium 228 | 0.766 | 2 | J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Niobium | 1.015 | 1.3 | BN | UJ- | b, e | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Radium 228 | 0.752 | 1.55 | J | U | k, e, b | pCi/g |

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

| | |
|-------|---|
| + | Result is possibly biased high |
| - | Result is possibly biased low |
| b | Qualified due to blank contamination |
| B | Reported value is greater than the SQL, but less than the PQL |
| e | Qualified due to matrix spike or laboratory control sample issues |
| E | Estimated due to possible matrix interference |
| j | Qualified because result is greater than the SQL, but less than the PQL |
| J | Result is estimated |
| k | Result is greater than MDC but less than the required reporting limit |
| mg/kg | Milligram per kilogram |
| MDC | Minimum detectable concentration |
| N | Analyte identification is tentative |
| ND | Not detected |
| pCi/g | PicoCurie per gram |
| PQL | Practical quantitation limit |
| R | Result is rejected |
| RL | Reporting limit |
| SDG | Sample delivery group |
| SQL | Sample quantitation limit |
| U | Undetected |
| UJ | Undetected with estimated quantitation limit |

- 1 The RL represents the SQL for metals and the MDC for radionuclides.
 - 2 "ND" indicates that the analyte was not detected above the associated SQL.
-

TABLE 8
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.199 | 1.04 | J | n | pCi/g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Radium 226 | 0.199 | 1.04 | J | n | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.165 | 0.635 | J | k, n | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Radium 226 | 0.165 | 0.635 | J | k, n | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0222 | 1.03 | J | n | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Radium 226 | 0.0222 | 1.03 | J | n | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.215 | 0.577 | J | k, n | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Radium 226 | 0.215 | 0.577 | J | k, n | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.134 | 0.817 | J | k, n | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Radium 226 | 0.134 | 0.817 | J | k, n | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.185 | 0.507 | J | k, n | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Radium 226 | 0.185 | 0.507 | J | k, n | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.138 | 0.893 | J | k, n | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Radium 226 | 0.138 | 0.893 | J | k, n | pCi/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0936 | 0.714 | J | k, n | pCi/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Radium 226 | 0.0936 | 0.714 | J | k, n | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.172 | 0.865 | J | k, n | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Radium 226 | 0.172 | 0.865 | J | k, n | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.119 | 1.14 | J | n | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Radium 226 | 0.119 | 1.14 | J | n | pCi/g |

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|-----------|---------|-------|
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0905 | 1.18 | J | n | pCi/g |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Radium 226 | 0.0905 | 1.18 | J | n | pCi/g |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0925 | 1.06 | J | n | pCi/g |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Radium 226 | 0.0925 | 1.06 | J | n | pCi/g |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0577 | 1.18 | J | n | pCi/g |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Radium 226 | 0.0577 | 1.18 | J | n | pCi/g |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.128 | 1.53 | J | n | pCi/g |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Radium 226 | 0.128 | 1.53 | J | n | pCi/g |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.147 | 1.09 | J | n | pCi/g |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Radium 226 | 0.147 | 1.09 | J | n | pCi/g |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0558 | 0.807 | J | k, n | pCi/g |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Radium 226 | 0.0558 | 0.807 | J | k, n | pCi/g |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.177 | 1.58 | J | n | pCi/g |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Radium 226 | 0.177 | 1.58 | J | n | pCi/g |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.154 | 1.15 | J | n | pCi/g |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Radium 226 | 0.154 | 1.15 | J | n | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-01B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.227 | 2.1 | J | n | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-01B-9-11 | Soil | Radium 226 | 0.227 | 2.1 | J | n | pCi/g |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.156 | 1.22 | J | n | pCi/g |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Radium 226 | 0.156 | 1.22 | J | n | pCi/g |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.145 | 1.82 | J | n | pCi/g |

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|--|-----------------|--------|-----------|---------|-------|
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Radium 226 | 0.145 | 1.82 | J | n | pCi/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0924 | 1.91 | J | n | pCi/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Radium 226 | 0.0924 | 1.91 | J | n | pCi/g |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.112 | 1.07 | J | n | pCi/g |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Radium 226 | 0.112 | 1.07 | J | n | pCi/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.186 | 0.945 | J | k, n | pCi/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Radium 226 | 0.186 | 0.945 | J | k, n | pCi/g |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.166 | 1.03 | J | n | pCi/g |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Radium 226 | 0.166 | 1.03 | J | n | pCi/g |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.149 | 1.06 | J | n | pCi/g |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Radium 226 | 0.149 | 1.06 | J | n | pCi/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.152 | 0.952 | J | k, n | pCi/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Radium 226 | 0.152 | 0.952 | J | k, n | pCi/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0877 | 1.1 | J | n | pCi/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Radium 226 | 0.0877 | 1.1 | J | n | pCi/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.185 | 1.22 | J | n | pCi/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Radium 226 | 0.185 | 1.22 | J | n | pCi/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.211 | 1.16 | J | n | pCi/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Radium 226 | 0.211 | 1.16 | J | n | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.174 | 0.784 | J | k, n | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Radium 226 | 0.174 | 0.784 | J | k, n | pCi/g |

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|------------------|--------|--|-----------------|---------|-----------|---------|-------|
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.173 | 0.926 J | J | k, n | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Radium 226 | 0.173 | 0.926 J | J | k, n | pCi/g |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.101 | 1.96 | J | n | pCi/g |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Radium 226 | 0.101 | 1.96 | J | n | pCi/g |

Notes:

- + Result is possibly biased high
- Result is possibly biased low
- J Result is estimated
- k Qualified because result is >MDC but < required reporting limit
- MDC Minimum detectable concentration
- n Qualified due to poor tracer yield
- pCi/g PicoCurie per gram
- R Result is rejected and unusable
- RL Reporting limit
- SDG Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 9
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Strontium | 0.0735 | 219 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Strontium | 0.0735 | 406 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Strontium | 0.0735 | 249 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Strontium | 0.0735 | 441 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Strontium | 0.0735 | 808 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Strontium | 0.0735 | 182 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Strontium | 0.0735 | 258 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Strontium | 0.0735 | 143 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Strontium | 0.0735 | 267 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Strontium | 0.0735 | 402 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Strontium | 0.0735 | 142 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Strontium | 0.0735 | 140 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Strontium | 0.0735 | 131 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Strontium | 0.0735 | 166 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Strontium | 0.0735 | 192 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Strontium | 0.0735 | 260 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Strontium | 0.0735 | 153 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Strontium | 0.0735 | 364 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Strontium | 0.0735 | 149 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Strontium | 0.0735 | 203 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Strontium | 0.0735 | 217 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Strontium | 0.0735 | 229 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Strontium | 0.0735 | 206 | N*E | J | j, d | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Lead | 0.0506 | 8.9 | N* | J | d | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Lead | 0.0506 | 8.9 | N* | J | d | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Lead | 0.0506 | 9.9 | N* | J | d | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Lead | 0.0506 | 19.1 | N* | J | d | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Lead | 0.0506 | 5.7 | N* | J | d | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Lead | 0.0506 | 6.3 | N* | J | d | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Lead | 0.0506 | 3 | N* | J | d | mg/kg |

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Lead | 0.0506 | 5 | N* | J | d | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Lead | 0.0506 | 12.2 | N* | J | d | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Lead | 0.0506 | 3.6 | N* | J | d | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Lead | 0.0506 | 21 | N* | J | d | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Lead | 0.0506 | 9.1 | N* | J | d | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Lead | 0.0506 | 11.7 | N* | J | d | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Lead | 0.0506 | 17.5 | N* | J | d | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Lead | 0.0506 | 12.4 | N* | J | d | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Lead | 0.0506 | 9.4 | N* | J | d | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Lead | 0.0506 | 9.1 | N* | J | d | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Lead | 0.0506 | 6.7 | N* | J | d | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Lead | 0.0506 | 7.8 | N* | J | d | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Lead | 0.0506 | 7.9 | N* | J | d | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Manganese | 0.0131 | 397 | N* | J | d | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Manganese | 0.0131 | 433 | N* | J | d | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Manganese | 0.0131 | 522 | N* | J | d | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Manganese | 0.0131 | 268 | N* | J | d | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Manganese | 0.0131 | 398 | N* | J | d | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Manganese | 0.0131 | 455 | N* | J | d | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Manganese | 0.0131 | 288 | N* | J | d | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Manganese | 0.0131 | 287 | N* | J | d | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Manganese | 0.0131 | 678 | N* | J | d | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Manganese | 0.0131 | 312 | N* | J | d | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Manganese | 0.0131 | 449 | N* | J | d | mg/kg |

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

- * Laboratory qualification due to poor duplicate precision
- b Qualified due to blank contamination
- d Qualified due to poor duplicate precision
- e Qualified due to matrix spike or laboratory control sample issues
- E Estimated due to possible matrix interference
- j Qualified because result is greater than the SQL, but less than the PQL
- J Result is estimated
- mg/kg Milligram per kilogram
- MDC Minimum detectable concentration
- N Laboratory qualification due to poor matrix spike recovery
- PQL Practical quantitation limit
- RL Reporting limit
- SDG Sample delivery group
- SQL Sample quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 10
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|---|-----------|---------|----------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Beryllium | 0.038 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | CEC | 50 | 19.4 | J | J | g | meq/100g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Mercury | 0.0072 | 0.021 | B | J | g | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Molybdenum | 0.241 | 0.3 | B | J | g | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Tin | 0.187 | 0.57 | B | J | g | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | CEC | 50 | 13.2 | J | J | g | meq/100g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Mercury | 0.0072 | 0.028 | B | J | g | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Molybdenum | 0.241 | 0.6 | B | J | g | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Selenium | 0.1579 | 0.26 | B | J | g | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Tin | 0.187 | 0.63 | B | J | g | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Beryllium | 0.038 | 0.44 | B | J | g | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | CEC | 50 | 18.4 | J | J | g | meq/100g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Mercury | 0.0072 | 0.023 | B | J | g | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Molybdenum | 0.241 | 0.32 | B | J | g | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Tin | 0.187 | 0.58 | B | J | g | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Uranium | 0.038 | 0.89 | B | J | g | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | CEC | 50 | 14.9 | J | J | g | meq/100g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Mercury | 0.0072 | 0.028 | B | J | g | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Molybdenum | 0.241 | 0.38 | B | J | g | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Tin | 0.187 | 0.68 | B | J | g | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Beryllium | 0.038 | 0.41 | B | J | g | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | CEC | 50 | 16.3 | J | J | g | meq/100g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Mercury | 0.0072 | 0.029 | B | J | g | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Molybdenum | 0.241 | 0.36 | B | J | g | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Tin | 0.187 | 0.65 | B | J | g | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Beryllium | 0.038 | 0.46 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|--------|----|-----------|---------|----------|
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | CEC | 50 | 14.7 | J | J | g | meq/100g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Mercury | 0.0072 | 0.03 | B | J | g | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Molybdenum | 0.241 | 0.33 | B | J | g | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Beryllium | 0.038 | 0.47 | B | J | g | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | CEC | 50 | 10 | J | J | g | meq/100g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Mercury | 0.0072 | 0.028 | B | J | g | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Molybdenum | 0.241 | 0.41 | B | J | g | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Uranium | 0.038 | 0.92 | B | J | g | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Beryllium | 0.038 | 0.16 | B | J | g | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | CEC | 50 | 13.3 | J | J | g | meq/100g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Molybdenum | 0.241 | 0.34 | B | J | g | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Platinum | 0.0435 | 0.082 | B | J | g | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Tin | 0.187 | 0.8 | B | J | g | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Uranium | 0.038 | 0.87 | B | J | g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Antimony | 0.3298 | 0.28 | BN | J- | e, g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | CEC | 50 | 15.3 | J | J | g | meq/100g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Molybdenum | 0.241 | 0.36 | B | J | g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Selenium | 0.1579 | 0.39 | B | J | g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Tin | 0.187 | 0.5 | B | J | g | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Uranium | 0.038 | 0.62 | B | J | g | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Beryllium | 0.038 | 0.43 | B | J | g | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | CEC | 50 | 15.6 | J | J | g | meq/100g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Molybdenum | 0.241 | 0.46 | B | J | g | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Tin | 0.187 | 0.5 | B | J | g | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Uranium | 0.038 | 0.94 | B | J | g | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Beryllium | 0.038 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | CEC | 50 | 17.4 | J | J | g | meq/100g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Mercury | 0.0072 | 0.032 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|---|-----------|---------|----------|
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Molybdenum | 0.241 | 0.32 | B | J | g | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Tin | 0.187 | 0.61 | B | J | g | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Uranium | 0.038 | 0.94 | B | J | g | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Beryllium | 0.038 | 0.35 | B | J | g | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | CEC | 50 | 15.9 | J | J | g | meq/100g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Mercury | 0.0072 | 0.033 | B | J | g | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Molybdenum | 0.241 | 0.39 | B | J | g | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Tin | 0.187 | 0.59 | B | J | g | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Beryllium | 0.038 | 0.54 | B | J | g | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | CEC | 50 | 18.4 | J | J | g | meq/100g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Mercury | 0.0072 | 0.034 | B | J | g | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Tin | 0.187 | 0.55 | B | J | g | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Beryllium | 0.038 | 0.33 | B | J | g | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | CEC | 50 | 15.5 | J | J | g | meq/100g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Mercury | 0.0072 | 0.025 | B | J | g | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Molybdenum | 0.241 | 0.36 | B | J | g | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Tin | 0.187 | 0.55 | B | J | g | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Uranium | 0.038 | 0.89 | B | J | g | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Beryllium | 0.038 | 0.37 | B | J | g | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | CEC | 50 | 19.2 | J | J | g | meq/100g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Mercury | 0.0072 | 0.021 | B | J | g | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Molybdenum | 0.241 | 0.36 | B | J | g | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Tin | 0.187 | 0.61 | B | J | g | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Beryllium | 0.038 | 0.32 | B | J | g | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | CEC | 50 | 15.1 | J | J | g | meq/100g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Nitrite | 0.061 | 0.15 | B | J | h, g | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Tin | 0.187 | 0.59 | B | J | g | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Beryllium | 0.038 | 0.42 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|---|-----------|---------|----------|
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | CEC | 50 | 14.6 | J | J | g | meq/100g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Mercury | 0.0072 | 0.027 | B | J | g | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Tin | 0.187 | 0.55 | B | J | g | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Uranium | 0.038 | 0.9 | B | J | g | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Beryllium | 0.038 | 0.42 | B | J | g | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | CEC | 50 | 7.9 | J | J | g | meq/100g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Mercury | 0.0072 | 0.013 | B | J | g | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Molybdenum | 0.241 | 0.42 | B | J | g | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Tin | 0.187 | 0.51 | B | J | g | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Beryllium | 0.038 | 0.47 | B | J | g | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Mercury | 0.0072 | 0.019 | B | J | g | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Molybdenum | 0.241 | 0.35 | B | J | g | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Platinum | 0.0435 | 0.099 | B | J | g | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Tin | 0.187 | 0.75 | B | J | g | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Beryllium | 0.038 | 0.29 | B | J | g | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Mercury | 0.0072 | 0.017 | B | J | g | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Tin | 0.187 | 0.46 | B | J | g | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Uranium | 0.038 | 0.93 | B | J | g | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Beryllium | 0.038 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Tin | 0.187 | 0.69 | B | J | g | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Uranium | 0.038 | 0.97 | B | J | g | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Beryllium | 0.038 | 0.44 | B | J | g | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Mercury | 0.0072 | 0.025 | B | J | g | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Tin | 0.187 | 0.76 | B | J | g | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Uranium | 0.038 | 0.98 | B | J | g | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Beryllium | 0.038 | 0.49 | B | J | g | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Mercury | 0.0072 | 0.027 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Molybdenum | 0.241 | 0.55 | B | J | g | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Tin | 0.187 | 0.63 | B | J | g | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Beryllium | 0.038 | 0.42 | B | J | g | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Mercury | 0.0072 | 0.011 | B | J | g | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Molybdenum | 0.241 | 0.66 | B | J | g | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Tin | 0.187 | 0.59 | B | J | g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Antimony | 0.3298 | 0.28 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Mercury | 0.0072 | 0.019 | B | J | g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Molybdenum | 0.241 | 0.43 | B | J | g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Selenium | 0.1579 | 0.37 | B | J | g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Tin | 0.187 | 0.51 | B | J | g | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Uranium | 0.038 | 0.81 | B | J | g | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Mercury | 0.0072 | 0.02 | B | J | g | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Molybdenum | 0.241 | 0.73 | B | J | g | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Platinum | 0.0435 | 0.045 | B | J | g | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Selenium | 0.1579 | 0.27 | B | J | g | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Tin | 0.187 | 0.52 | B | J | g | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Mercury | 0.0072 | 0.018 | B | J | g | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Molybdenum | 0.241 | 0.63 | B | J | g | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Tin | 0.187 | 0.39 | B | J | g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Mercury | 0.0072 | 0.0093 | B | J | g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Molybdenum | 0.241 | 0.64 | B | J | g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Selenium | 0.1579 | 0.23 | B | J | g | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Tin | 0.187 | 0.61 | B | J | g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Antimony | 0.3298 | 0.17 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Mercury | 0.0072 | 0.023 | B | J | g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Molybdenum | 0.241 | 0.49 | B | J | g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Selenium | 0.1579 | 0.35 | B | J | g | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Tin | 0.187 | 0.46 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Molybdenum | 0.241 | 0.38 | B | J | g | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Tin | 0.187 | 0.39 | B | J | g | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Mercury | 0.0072 | 0.012 | B | J | g | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Molybdenum | 0.241 | 0.57 | B | J | g | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Tin | 0.187 | 0.55 | B | J | g | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Mercury | 0.0072 | 0.012 | B | J | g | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Molybdenum | 0.241 | 0.52 | B | J | g | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Tin | 0.187 | 0.44 | B | J | g | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Mercury | 0.0072 | 0.011 | B | J | g | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Molybdenum | 0.241 | 0.38 | B | J | g | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Tin | 0.187 | 0.38 | B | J | g | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Mercury | 0.0072 | 0.0085 | B | J | g | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Tin | 0.187 | 0.51 | B | J | g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Antimony | 0.3298 | 0.18 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Mercury | 0.0072 | 0.022 | B | J | g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Molybdenum | 0.241 | 0.48 | B | J | g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Selenium | 0.1579 | 0.32 | B | J | g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Tin | 0.187 | 0.63 | B | J | g | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Molybdenum | 0.241 | 0.58 | B | J | g | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Mercury | 0.0072 | 0.012 | B | J | g | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Molybdenum | 0.241 | 0.56 | B | J | g | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Tin | 0.187 | 0.58 | B | J | g | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Molybdenum | 0.241 | 0.38 | B | J | g | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Tin | 0.187 | 0.41 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Uranium | 0.038 | 0.82 | B | J | g | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Antimony | 0.3298 | 0.32 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Mercury | 0.0072 | 0.021 | B | J | g | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Molybdenum | 0.241 | 1 | B | J | g | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Mercury | 0.0072 | 0.019 | B | J | g | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Molybdenum | 0.241 | 0.54 | B | J | g | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Tin | 0.187 | 0.45 | B | J | g | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Uranium | 0.038 | 0.95 | B | J | g | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Mercury | 0.0072 | 0.0098 | B | J | g | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Molybdenum | 0.241 | 0.43 | B | J | g | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Uranium | 0.038 | 0.92 | B | J | g | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Molybdenum | 0.241 | 0.48 | B | J | g | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Tin | 0.187 | 0.49 | B | J | g | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Antimony | 0.3298 | 0.15 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Molybdenum | 0.241 | 0.52 | B | J | g | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Selenium | 0.1579 | 0.27 | B | J | g | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Tin | 0.187 | 0.55 | B | J | g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Antimony | 0.3298 | 0.27 | BN | J- | e, g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Mercury | 0.0072 | 0.02 | B | J | g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Molybdenum | 0.241 | 0.53 | B | J | g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Tin | 0.187 | 0.54 | B | J | g | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Uranium | 0.038 | 0.76 | B | J | g | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Tin | 0.187 | 0.42 | B | J | g | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Uranium | 0.038 | 0.91 | B | J | g | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Beryllium | 0.038 | 0.48 | B | J | g | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Mercury | 0.0072 | 0.015 | B | J | g | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Molybdenum | 0.241 | 0.39 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Platinum | 0.0435 | 0.064 | B | J | g | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Tin | 0.187 | 0.36 | B | J | g | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Uranium | 0.038 | 0.93 | B | J | g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Antimony | 0.3298 | 0.5 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Mercury | 0.0072 | 0.023 | B | J | g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Molybdenum | 0.241 | 0.9 | B | J | g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Nitrite | 0.062 | 0.16 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Selenium | 0.1579 | 0.29 | B | J | g | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Tin | 0.187 | 0.78 | B | J | g | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Beryllium | 0.038 | 0.38 | B | J | g | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Mercury | 0.0072 | 0.01 | B | J | g | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Molybdenum | 0.241 | 0.4 | B | J | g | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Tin | 0.187 | 0.32 | B | J | g | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Uranium | 0.038 | 0.86 | B | J | g | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Beryllium | 0.038 | 0.37 | B | J | g | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Mercury | 0.0072 | 0.0092 | B | J | g | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Tin | 0.187 | 0.41 | B | J | g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Antimony | 0.3298 | 0.46 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Mercury | 0.0072 | 0.033 | B | J | g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Molybdenum | 0.241 | 0.75 | B | J | g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Selenium | 0.1579 | 0.27 | B | J | g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Tin | 0.187 | 0.66 | B | J | g | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Uranium | 0.038 | 0.85 | B | J | g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Beryllium | 0.038 | 0.48 | B | J | g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Mercury | 0.0072 | 0.015 | B | J | g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Molybdenum | 0.241 | 0.64 | B | J | g | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Tin | 0.187 | 0.45 | B | J | g | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Antimony | 0.3298 | 0.29 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Mercury | 0.0072 | 0.0091 | B | J | g | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Molybdenum | 0.241 | 0.84 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Selenium | 0.1579 | 0.34 | B | J | g | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Tin | 0.187 | 0.63 | B | J | g | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Beryllium | 0.038 | 0.48 | B | J | g | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Mercury | 0.0072 | 0.022 | B | J | g | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Molybdenum | 0.241 | 0.37 | B | J | g | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Tin | 0.187 | 0.48 | B | J | g | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Molybdenum | 0.241 | 0.68 | B | J | g | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Tin | 0.187 | 0.33 | B | J | g | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Uranium | 0.038 | 0.93 | B | J | g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Antimony | 0.3298 | 0.36 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Molybdenum | 0.241 | 0.79 | B | J | g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Selenium | 0.1579 | 0.31 | B | J | g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Tin | 0.187 | 0.54 | B | J | g | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Uranium | 0.038 | 0.85 | B | J | g | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Mercury | 0.0072 | 0.013 | B | J | g | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Molybdenum | 0.241 | 0.42 | B | J | g | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Selenium | 0.1579 | 0.31 | B | J | g | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Tin | 0.187 | 0.43 | B | J | g | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Molybdenum | 0.241 | 0.47 | B | J | g | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Tin | 0.187 | 0.39 | B | J | g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Antimony | 0.3298 | 0.23 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Mercury | 0.0072 | 0.027 | B | J | g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Molybdenum | 0.241 | 0.47 | B | J | g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Selenium | 0.1579 | 0.36 | B | J | g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Tin | 0.187 | 0.38 | B | J | g | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Uranium | 0.038 | 0.64 | B | J | g | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Molybdenum | 0.241 | 0.53 | B | J | g | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Tin | 0.187 | 0.43 | B | J | g | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Uranium | 0.038 | 0.76 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Mercury | 0.0072 | 0.0098 | B | J | g | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Uranium | 0.038 | 0.68 | B | J | g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Antimony | 0.3298 | 0.24 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Mercury | 0.0072 | 0.015 | B | J | g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Molybdenum | 0.241 | 0.61 | B | J | g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Nitrate | 0.1 | 0.19 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Selenium | 0.1579 | 0.3 | B | J | g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Tin | 0.187 | 0.53 | B | J | g | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Uranium | 0.038 | 0.96 | B | J | g | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Selenium | 0.1579 | 0.36 | B | J | g | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Tin | 0.187 | 0.62 | B | J | g | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Uranium | 0.038 | 0.84 | B | J | g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Antimony | 0.3298 | 0.16 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Mercury | 0.0072 | 0.012 | B | J | g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Molybdenum | 0.241 | 0.6 | B | J | g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Tin | 0.187 | 0.43 | B | J | g | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Uranium | 0.038 | 0.83 | B | J | g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Antimony | 0.3298 | 0.21 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Molybdenum | 0.241 | 0.59 | B | J | g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Selenium | 0.1579 | 0.29 | B | J | g | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Tin | 0.187 | 0.56 | B | J | g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Antimony | 0.3298 | 0.17 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Beryllium | 0.038 | 0.47 | B | J | g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Mercury | 0.0072 | 0.0086 | B | J | g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Selenium | 0.1579 | 0.34 | B | J | g | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Uranium | 0.038 | 0.73 | B | J | g | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Antimony | 0.3298 | 0.14 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Molybdenum | 0.241 | 0.61 | B | J | g | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Selenium | 0.1579 | 0.31 | B | J | g | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Tin | 0.187 | 0.51 | B | J | g | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Uranium | 0.038 | 0.84 | B | J | g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Antimony | 0.3298 | 0.23 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Molybdenum | 0.241 | 0.77 | B | J | g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Nitrite | 0.061 | 0.15 | B | J | h, g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Selenium | 0.1579 | 0.3 | B | J | g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Tin | 0.187 | 0.67 | B | J | g | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Uranium | 0.038 | 0.97 | B | J | g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Antimony | 0.3298 | 0.35 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Beryllium | 0.038 | 0.44 | B | J | g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Molybdenum | 0.241 | 0.76 | B | J | g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Selenium | 0.1579 | 0.23 | B | J | g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Tin | 0.187 | 0.52 | B | J | g | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Uranium | 0.038 | 0.99 | B | J | g | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Beryllium | 0.038 | 0.42 | B | J | g | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Molybdenum | 0.241 | 0.65 | B | J | g | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Selenium | 0.1579 | 0.38 | B | J | g | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Tin | 0.187 | 0.42 | B | J | g | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Uranium | 0.038 | 0.85 | B | J | g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Beryllium | 0.038 | 0.44 | B | J | g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Molybdenum | 0.241 | 0.55 | B | J | g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Uranium | 0.038 | 0.9 | B | J | g | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Antimony | 0.3298 | 0.32 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Molybdenum | 0.241 | 0.72 | B | J | g | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Selenium | 0.1579 | 0.33 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Tin | 0.187 | 0.54 | B | J | g | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Uranium | 0.038 | 0.8 | B | J | g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Beryllium | 0.038 | 0.44 | B | J | g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Molybdenum | 0.241 | 0.62 | B | J | g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Selenium | 0.1579 | 0.39 | B | J | g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Uranium | 0.038 | 0.8 | B | J | g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Antimony | 0.3298 | 0.15 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Beryllium | 0.038 | 0.41 | B | J | g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Molybdenum | 0.241 | 0.78 | B | J | g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Selenium | 0.1579 | 0.27 | B | J | g | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Molybdenum | 0.241 | 0.7 | B | J | g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Selenium | 0.1579 | 0.34 | B | J | g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Tin | 0.187 | 0.66 | B | J | g | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Uranium | 0.038 | 0.86 | B | J | g | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Molybdenum | 0.241 | 0.58 | B | J | g | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Tin | 0.187 | 0.44 | B | J | g | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Uranium | 0.038 | 0.78 | B | J | g | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Beryllium | 0.038 | 0.41 | B | J | g | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Molybdenum | 0.241 | 0.51 | B | J | g | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Tin | 0.187 | 0.37 | B | J | g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Antimony | 0.3298 | 0.44 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Beryllium | 0.038 | 0.48 | B | J | g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Mercury | 0.0072 | 0.0097 | B | J | g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Molybdenum | 0.241 | 0.73 | B | J | g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Selenium | 0.1579 | 0.26 | B | J | g | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Tin | 0.187 | 0.28 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Uranium | 0.038 | 0.43 | B | J | g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Beryllium | 0.038 | 0.43 | B | J | g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Molybdenum | 0.241 | 0.94 | B | J | g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Nitrate | 0.1 | 0.13 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Selenium | 0.1579 | 0.28 | B | J | g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Tin | 0.187 | 0.21 | B | J | g | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Uranium | 0.038 | 0.84 | B | J | g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Nitrate | 0.1 | 0.11 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Selenium | 0.1579 | 0.4 | B | J | g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Tin | 0.187 | 0.25 | B | J | g | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Uranium | 0.038 | 0.71 | B | J | g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Antimony | 0.3298 | 0.4 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Molybdenum | 0.241 | 0.77 | B | J | g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Nitrate | 0.1 | 0.18 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Selenium | 0.1579 | 0.26 | B | J | g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Tin | 0.187 | 0.61 | B | J | g | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Uranium | 0.038 | 0.79 | B | J | g | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Molybdenum | 0.241 | 0.41 | B | J | g | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Selenium | 0.1579 | 0.29 | B | J | g | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Tin | 0.187 | 0.39 | B | J | g | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Antimony | 0.3298 | 0.41 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Molybdenum | 0.241 | 0.54 | B | J | g | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Tin | 0.187 | 0.44 | B | J | g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Beryllium | 0.038 | 0.46 | B | J | g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Molybdenum | 0.241 | 0.33 | B | J | g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Tin | 0.187 | 0.29 | B | J | g | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Uranium | 0.038 | 0.74 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Antimony | 0.3298 | 0.13 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Molybdenum | 0.241 | 0.35 | B | J | g | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Tin | 0.187 | 0.25 | B | J | g | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Uranium | 0.038 | 0.81 | B | J | g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Antimony | 0.3298 | 0.38 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Mercury | 0.0072 | 0.01 | B | J | g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Molybdenum | 0.241 | 0.72 | B | J | g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Selenium | 0.1579 | 0.32 | B | J | g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Tin | 0.187 | 0.56 | B | J | g | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Uranium | 0.038 | 0.93 | B | J | g | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Beryllium | 0.038 | 0.5 | B | J | g | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Molybdenum | 0.241 | 0.43 | B | J | g | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Tin | 0.187 | 0.24 | B | J | g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Mercury | 0.0072 | 0.017 | B | J | g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Selenium | 0.1579 | 0.23 | B | J | g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Tin | 0.187 | 0.33 | B | J | g | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Uranium | 0.038 | 0.51 | B | J | g | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Beryllium | 0.038 | 0.46 | B | J | g | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Tin | 0.187 | 0.2 | B | J | g | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Uranium | 0.038 | 0.67 | B | J | g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Antimony | 0.3298 | 0.25 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Molybdenum | 0.241 | 0.9 | B | J | g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Nitrate | 0.1 | 0.2 | B | J | h, g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Selenium | 0.1579 | 0.39 | B | J | g | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Uranium | 0.038 | 0.73 | B | J | g | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Antimony | 0.3298 | 0.22 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Molybdenum | 0.241 | 0.83 | B | J | g | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Tin | 0.187 | 0.34 | B | J | g | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Uranium | 0.038 | 0.63 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Beryllium | 0.038 | 0.52 | B | J | g | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Molybdenum | 0.241 | 0.97 | B | J | g | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Selenium | 0.1579 | 0.4 | B | J | g | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Tin | 0.187 | 0.22 | B | J | g | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Uranium | 0.038 | 0.74 | B | J | g | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Mercury | 0.0072 | 0.015 | B | J | g | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Molybdenum | 0.241 | 0.89 | B | J | g | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Tin | 0.187 | 0.21 | B | J | g | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Uranium | 0.038 | 0.84 | B | J | g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Antimony | 0.3298 | 0.39 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Mercury | 0.0072 | 0.021 | B | J | g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Molybdenum | 0.241 | 0.42 | B | J | g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Selenium | 0.1579 | 0.37 | B | J | g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Tin | 0.187 | 0.47 | B | J | g | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Uranium | 0.038 | 0.73 | B | J | g | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Molybdenum | 0.241 | 0.35 | B | J | g | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Selenium | 0.1579 | 0.37 | B | J | g | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Tin | 0.187 | 0.37 | B | J | g | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Uranium | 0.038 | 0.8 | B | J | g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Antimony | 0.3298 | 0.12 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Mercury | 0.0072 | 0.011 | B | J | g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Molybdenum | 0.241 | 0.42 | B | J | g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Platinum | 0.0435 | 0.064 | B | J | g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Tin | 0.187 | 0.46 | B | J | g | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Uranium | 0.038 | 0.95 | B | J | g | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J- | e, g | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Mercury | 0.0072 | 0.016 | B | J | g | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Molybdenum | 0.241 | 0.42 | B | J | g | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Tin | 0.187 | 0.52 | B | J | g | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Antimony | 0.3298 | 0.23 | BN | J | g | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Mercury | 0.0072 | 0.0084 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Molybdenum | 0.241 | 0.37 | B | J | g | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Tin | 0.187 | 0.48 | B | J | g | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Uranium | 0.038 | 1 | B | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Antimony | 0.3298 | 0.21 | BN | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Mercury | 0.0072 | 0.01 | B | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Molybdenum | 0.241 | 0.47 | B | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Selenium | 0.1579 | 0.29 | B | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Tin | 0.187 | 0.52 | B | J | g | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Uranium | 0.038 | 0.89 | B | J | g | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Antimony | 0.3298 | 0.2 | BN | J | g | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Mercury | 0.0072 | 0.016 | B | J | g | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Molybdenum | 0.241 | 0.43 | B | J | g | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Tin | 0.187 | 0.44 | B | J | g | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Uranium | 0.038 | 0.82 | B | J | g | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Mercury | 0.0072 | 0.01 | B | J | g | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Molybdenum | 0.241 | 0.32 | B | J | g | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Uranium | 0.038 | 0.72 | B | J | g | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Antimony | 0.3298 | 0.29 | BN | J | g | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Mercury | 0.0072 | 0.011 | B | J | g | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Molybdenum | 0.241 | 0.58 | B | J | g | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Tin | 0.187 | 0.52 | B | J | g | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Uranium | 0.038 | 0.84 | B | J | g | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Antimony | 0.3298 | 0.15 | BN | J | g | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Molybdenum | 0.241 | 0.46 | B | J | g | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Tin | 0.187 | 0.41 | B | J | g | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Mercury | 0.0072 | 0.012 | B | J | g | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Molybdenum | 0.241 | 0.44 | B | J | g | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Tin | 0.187 | 0.4 | B | J | g | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Mercury | 0.0072 | 0.011 | B | J | g | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Molybdenum | 0.241 | 0.45 | B | J | g | mg/kg |

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Tin | 0.187 | 0.34 | B | J | g | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Antimony | 0.3298 | 0.22 | BN | J | g | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Mercury | 0.0072 | 0.017 | B | J | g | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Molybdenum | 0.241 | 0.62 | B | J | g | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Tin | 0.187 | 0.51 | B | J | g | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Uranium | 0.038 | 0.71 | B | J | g | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Antimony | 0.3298 | 0.15 | BN | J | g | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Mercury | 0.0072 | 0.017 | B | J | g | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Molybdenum | 0.241 | 0.49 | B | J | g | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Tin | 0.187 | 0.42 | B | J | g | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Uranium | 0.038 | 0.82 | B | J | g | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Mercury | 0.0072 | 0.014 | B | J | g | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Molybdenum | 0.241 | 0.74 | B | J | g | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Tin | 0.187 | 0.32 | B | J | g | mg/kg |

Notes:

- + Result is possibly biased high
- Result is possibly biased low
- B Reported value is greater than the SQL, but less than the PQL
- CEC Cation exchange capacity
- e Qualified due to matrix spike or laboratory control sample issues
- E Estimated due to possible matrix interference
- g Qualified because result is greater than the SQL, but less than the PQL
- h Qualified due to holding time exceedance
- J Result is estimated
- meq/100g Milliequivalents per 100 grams
- mg/kg Milligram per kilogram
- MDC Minimum detectable concentration
- N Analyte identification is tentative
- PQL Practical quantitation limit

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

| | |
|-----|--|
| RL | Reporting limit |
| SDG | Sample delivery group |
| SQL | Sample quantitation limit |
| U | Undetected |
| UJ | Undetected with estimated quantitation limit |

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 11
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Aluminum | 2 | 11800 | NE | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Cobalt | 0.064 | 10.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Copper | 0.2205 | 17.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Magnesium | 1.176 | 11100 | NE | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Manganese | 0.0131 | 488 | NE | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Nickel | 0.1295 | 15.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Potassium | 2.079 | 1060 | E | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Silicon | 0.5289 | 530 | NE | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Strontium | 0.0735 | 219 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Titanium | 0.1175 | 704 | NE | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Uranium | 0.038 | 7.6 | | R | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Vanadium | 0.5535 | 50 | E | J | j | mg/kg |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Zirconium | 0.0874 | 167 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Aluminum | 2 | 13300 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Cobalt | 0.064 | 16.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Copper | 0.2205 | 22.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Magnesium | 1.176 | 12500 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Manganese | 0.0131 | 641 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Nickel | 0.1295 | 20.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Potassium | 2.079 | 1360 | E | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Silicon | 0.5289 | 535 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Strontium | 0.0735 | 406 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Titanium | 0.1175 | 758 | NE | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Vanadium | 0.5535 | 57.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Zirconium | 0.0874 | 177 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Aluminum | 2 | 12600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Cobalt | 0.064 | 11.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Copper | 0.2205 | 19.9 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Magnesium | 1.176 | 17500 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Manganese | 0.0131 | 544 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Nickel | 0.1295 | 16.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Potassium | 2.079 | 1500 | E | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Silicon | 0.5289 | 573 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Strontium | 0.0735 | 249 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Titanium | 0.1175 | 702 | NE | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Tungsten | 0.0175 | 2.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Vanadium | 0.5535 | 54.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Zirconium | 0.0874 | 146 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Aluminum | 2 | 14700 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Cobalt | 0.064 | 12.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Copper | 0.2205 | 22.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Magnesium | 1.176 | 12900 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Manganese | 0.0131 | 618 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Nickel | 0.1295 | 18.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Potassium | 2.079 | 1490 | E | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Silicon | 0.5289 | 538 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Strontium | 0.0735 | 441 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Titanium | 0.1175 | 958 | NE | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Vanadium | 0.5535 | 59.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Zirconium | 0.0874 | 175 | NE | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Aluminum | 2 | 13300 | NE | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Cobalt | 0.064 | 14.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Copper | 0.2205 | 23.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Magnesium | 1.176 | 13400 | NE | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Manganese | 0.0131 | 593 | NE | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Nickel | 0.1295 | 30 | E | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Potassium | 2.079 | 1820 | E | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Silicon | 0.5289 | 562 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Strontium | 0.0735 | 808 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Titanium | 0.1175 | 779 | NE | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Vanadium | 0.5535 | 57.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Zirconium | 0.0874 | 176 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Aluminum | 2 | 10900 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Cobalt | 0.064 | 10.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Copper | 0.2205 | 20.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Magnesium | 1.176 | 11700 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Manganese | 0.0131 | 471 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Nickel | 0.1295 | 19 | E | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Potassium | 2.079 | 1210 | E | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Silicon | 0.5289 | 543 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Strontium | 0.0735 | 182 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Titanium | 0.1175 | 749 | NE | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Vanadium | 0.5535 | 49.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Zirconium | 0.0874 | 178 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Aluminum | 2 | 12200 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Cobalt | 0.064 | 12.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Copper | 0.2205 | 18.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Magnesium | 1.176 | 11100 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Manganese | 0.0131 | 489 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Nickel | 0.1295 | 17.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Potassium | 2.079 | 1250 | E | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Silicon | 0.5289 | 631 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Strontium | 0.0735 | 258 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Titanium | 0.1175 | 739 | NE | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Vanadium | 0.5535 | 47.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Zirconium | 0.0874 | 165 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Aluminum | 2 | 6340 | NE | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Cobalt | 0.064 | 10.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Copper | 0.2205 | 23.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Magnesium | 1.176 | 10500 | NE | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Manganese | 0.0131 | 282 | NE | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Nickel | 0.1295 | 27.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Potassium | 2.079 | 1420 | E | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Silicon | 0.5289 | 409 | NE | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Strontium | 0.0735 | 143 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Titanium | 0.1175 | 438 | NE | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Vanadium | 0.5535 | 33.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Zirconium | 0.0874 | 117 | NE | J | j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Cobalt | 0.064 | 9.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Manganese | 0.0131 | 481 | NE | J | j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Nickel | 0.1295 | 15.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Vanadium | 0.5535 | 43.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Zirconium | 0.0874 | 119 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Aluminum | 2 | 12500 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Cobalt | 0.064 | 11.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Copper | 0.2205 | 19.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Magnesium | 1.176 | 12700 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Manganese | 0.0131 | 566 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Nickel | 0.1295 | 18 | E | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Potassium | 2.079 | 1180 | E | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Silicon | 0.5289 | 527 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Strontium | 0.0735 | 267 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Titanium | 0.1175 | 701 | NE | J | j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Vanadium | 0.5535 | 49.2 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Zirconium | 0.0874 | 164 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Aluminum | 2 | 13400 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Cobalt | 0.064 | 11.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Copper | 0.2205 | 19.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Magnesium | 1.176 | 12200 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Manganese | 0.0131 | 550 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Nickel | 0.1295 | 16.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Potassium | 2.079 | 1540 | E | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Silicon | 0.5289 | 675 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Strontium | 0.0735 | 402 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Titanium | 0.1175 | 936 | NE | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Vanadium | 0.5535 | 55.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Zirconium | 0.0874 | 168 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Aluminum | 2 | 7240 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Cobalt | 0.064 | 8.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Copper | 0.2205 | 23.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Magnesium | 1.176 | 9830 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Manganese | 0.0131 | 503 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Nickel | 0.1295 | 18.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Potassium | 2.079 | 1770 | E | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Silicon | 0.5289 | 335 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Strontium | 0.0735 | 142 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Titanium | 0.1175 | 839 | NE | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Tungsten | 0.0175 | 0.86 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Vanadium | 0.5535 | 38.4 | E | J | j | mg/kg |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Zirconium | 0.0874 | 167 | NE | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Aluminum | 2 | 10600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Cobalt | 0.064 | 11.4 | E | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Copper | 0.2205 | 20.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Magnesium | 1.176 | 11200 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Manganese | 0.0131 | 369 | NE | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Nickel | 0.1295 | 22.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Potassium | 2.079 | 1750 | E | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Silicon | 0.5289 | 489 | NE | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Strontium | 0.0735 | 140 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Titanium | 0.1175 | 515 | NE | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Vanadium | 0.5535 | 42.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Zirconium | 0.0874 | 179 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Aluminum | 2 | 7130 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Cobalt | 0.064 | 8.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Copper | 0.2205 | 22.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Magnesium | 1.176 | 8470 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Manganese | 0.0131 | 407 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Nickel | 0.1295 | 17.4 | E | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Potassium | 2.079 | 1530 | E | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Silicon | 0.5289 | 342 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Strontium | 0.0735 | 131 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Titanium | 0.1175 | 659 | NE | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Vanadium | 0.5535 | 33.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Zirconium | 0.0874 | 154 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Aluminum | 2 | 8730 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Cobalt | 0.064 | 9.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Copper | 0.2205 | 21 | E | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Magnesium | 1.176 | 9600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Manganese | 0.0131 | 402 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Nickel | 0.1295 | 19.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Potassium | 2.079 | 1830 | E | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Silicon | 0.5289 | 375 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Strontium | 0.0735 | 166 | N*E | J | j, d | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Titanium | 0.1175 | 673 | NE | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Vanadium | 0.5535 | 35.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Zirconium | 0.0874 | 158 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Aluminum | 2 | 11200 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Cobalt | 0.064 | 12.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Copper | 0.2205 | 25.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Magnesium | 1.176 | 13700 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Manganese | 0.0131 | 460 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Nickel | 0.1295 | 25.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Potassium | 2.079 | 1580 | E | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Silicon | 0.5289 | 519 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Strontium | 0.0735 | 192 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Titanium | 0.1175 | 677 | NE | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Vanadium | 0.5535 | 43.4 | E | J | j | mg/kg |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Zirconium | 0.0874 | 166 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Aluminum | 2 | 11100 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Cobalt | 0.064 | 9.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Copper | 0.2205 | 20.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Magnesium | 1.176 | 11000 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Manganese | 0.0131 | 380 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Nickel | 0.1295 | 17.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Potassium | 2.079 | 2110 | E | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Silicon | 0.5289 | 476 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Strontium | 0.0735 | 260 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Titanium | 0.1175 | 671 | NE | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Vanadium | 0.5535 | 42.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Zirconium | 0.0874 | 138 | NE | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Aluminum | 2 | 12000 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|------------------|--------|-----------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Cobalt | 0.064 | 11.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Copper | 0.2205 | 23.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Magnesium | 1.176 | 12400 | NE | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Manganese | 0.0131 | 499 | NE | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Nickel | 0.1295 | 19.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Potassium | 2.079 | 1380 | E | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Silicon | 0.5289 | 423 | NE | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Strontium | 0.0735 | 153 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Titanium | 0.1175 | 674 | NE | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Vanadium | 0.5535 | 44.4 | E | J | j | mg/kg |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Zirconium | 0.0874 | 149 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Aluminum | 2 | 15300 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Cobalt | 0.064 | 11.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Copper | 0.2205 | 19.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Magnesium | 1.176 | 11600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Manganese | 0.0131 | 383 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Nickel | 0.1295 | 18.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Potassium | 2.079 | 2340 | E | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Silicon | 0.5289 | 719 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Strontium | 0.0735 | 364 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Titanium | 0.1175 | 1010 | NE | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Tungsten | 0.0175 | 0.84 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Vanadium | 0.5535 | 50.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Zirconium | 0.0874 | 146 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Aluminum | 2 | 8560 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Cobalt | 0.064 | 8.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Copper | 0.2205 | 22.5 | E | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Magnesium | 1.176 | 8450 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Manganese | 0.0131 | 327 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Nickel | 0.1295 | 14.7 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Potassium | 2.079 | 1410 | E | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Silicon | 0.5289 | 449 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Strontium | 0.0735 | 149 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Titanium | 0.1175 | 597 | NE | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Vanadium | 0.5535 | 38.8 | E | J | j | mg/kg |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Zirconium | 0.0874 | 134 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Aluminum | 2 | 10400 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Barium | 0.152 | 190 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Calcium | 1.028 | 22700 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Cobalt | 0.064 | 9.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Copper | 0.2205 | 19.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Iron | 1.173 | 17400 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Magnesium | 1.176 | 10300 | E | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Manganese | 0.0131 | 445 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Nickel | 0.1295 | 18.9 | E | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Phosphorus | 1.913 | 1540 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Potassium | 2.079 | 1800 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Silicon | 0.5289 | 620 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Sodium | 7.567 | 357 | E | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Strontium | 0.0735 | 203 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Titanium | 0.1175 | 864 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Vanadium | 0.5535 | 46.1 | NE | J | j | mg/kg |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Zirconium | 0.0874 | 145 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Aluminum | 2 | 10200 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Barium | 0.152 | 283 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Calcium | 1.028 | 23000 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Cobalt | 0.064 | 13.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Copper | 0.2205 | 19.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Iron | 1.173 | 17200 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Magnesium | 1.176 | 10800 | E | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Manganese | 0.0131 | 766 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Nickel | 0.1295 | 19.6 | E | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Phosphorus | 1.913 | 1580 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Potassium | 2.079 | 1680 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Silicon | 0.5289 | 555 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Sodium | 7.567 | 399 | E | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Strontium | 0.0735 | 217 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Titanium | 0.1175 | 767 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Vanadium | 0.5535 | 48.8 | NE | J | j | mg/kg |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Zirconium | 0.0874 | 137 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Aluminum | 2 | 12600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Barium | 0.152 | 264 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Calcium | 1.028 | 35600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Cobalt | 0.064 | 12.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Copper | 0.2205 | 21.2 | E | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Iron | 1.173 | 16600 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Magnesium | 1.176 | 12700 | E | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Manganese | 0.0131 | 556 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Nickel | 0.1295 | 22.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Phosphorus | 1.913 | 1460 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Potassium | 2.079 | 2080 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Silicon | 0.5289 | 497 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Sodium | 7.567 | 451 | E | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Strontium | 0.0735 | 229 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Titanium | 0.1175 | 879 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Vanadium | 0.5535 | 48 | NE | J | j | mg/kg |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Zirconium | 0.0874 | 151 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Aluminum | 2 | 11200 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|------------|-----------------|--------|-----|-----------|---------|-------|
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Barium | 0.152 | 154 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Calcium | 1.028 | 17900 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Cobalt | 0.064 | 11.3 | E | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Copper | 0.2205 | 21.7 | E | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Iron | 1.173 | 14900 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Magnesium | 1.176 | 11600 | E | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Manganese | 0.0131 | 465 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Nickel | 0.1295 | 22.1 | E | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Phosphorus | 1.913 | 1880 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Potassium | 2.079 | 1300 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Silicon | 0.5289 | 428 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Sodium | 7.567 | 329 | E | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Strontium | 0.0735 | 206 | N*E | J | j, d | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Titanium | 0.1175 | 858 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Vanadium | 0.5535 | 56 | NE | J | j | mg/kg |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Zirconium | 0.0874 | 171 | NE | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Aluminum | 2 | 11600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Barium | 0.152 | 150 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Calcium | 1.028 | 34200 | NE | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Cobalt | 0.064 | 8.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Copper | 0.2205 | 15.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Magnesium | 1.176 | 11700 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Manganese | 0.0131 | 387 | NE | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Nickel | 0.1295 | 15.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Potassium | 2.079 | 2350 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Strontium | 0.0735 | 159 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Titanium | 0.1175 | 478 | NE | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Vanadium | 0.5535 | 31.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Zirconium | 0.0874 | 117 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit | |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|-----------|---------|------|-------|
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Aluminum | 2 | 11700 | NE | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Barium | 0.152 | 213 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Calcium | 1.028 | 38500 | NE | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Cobalt | 0.064 | 10.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Copper | 0.2205 | 17.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Magnesium | 1.176 | 13600 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Manganese | 0.0131 | 553 | NE | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Nickel | 0.1295 | 15.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Potassium | 2.079 | 1350 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Strontium | 0.0735 | 321 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Titanium | 0.1175 | 545 | NE | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Vanadium | 0.5535 | 42.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Zirconium | 0.0874 | 139 | NE | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Aluminum | 2 | 10300 | NE | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Barium | 0.152 | 142 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Calcium | 1.028 | 49100 | NE | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Cobalt | 0.064 | 8.8 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Copper | 0.2205 | 17.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Magnesium | 1.176 | 13500 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Manganese | 0.0131 | 351 | NE | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Nickel | 0.1295 | 15.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Potassium | 2.079 | 879 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Strontium | 0.0735 | 379 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Titanium | 0.1175 | 533 | NE | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Vanadium | 0.5535 | 45.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Zirconium | 0.0874 | 119 | NE | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Aluminum | 2 | 13800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Barium | 0.152 | 193 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Calcium | 1.028 | 31400 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Cobalt | 0.064 | 10.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Copper | 0.2205 | 19.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Magnesium | 1.176 | 14600 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Manganese | 0.0131 | 534 | NE | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Nickel | 0.1295 | 19.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Potassium | 2.079 | 2740 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Strontium | 0.0735 | 163 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Titanium | 0.1175 | 589 | NE | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Vanadium | 0.5535 | 42.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Zirconium | 0.0874 | 120 | NE | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Aluminum | 2 | 11600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Barium | 0.152 | 210 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Calcium | 1.028 | 49100 | NE | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Cobalt | 0.064 | 10.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Copper | 0.2205 | 19 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Magnesium | 1.176 | 13600 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Manganese | 0.0131 | 478 | NE | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Nickel | 0.1295 | 17.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Potassium | 2.079 | 1310 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Strontium | 0.0735 | 347 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Titanium | 0.1175 | 651 | NE | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Vanadium | 0.5535 | 48 | E | J | j | mg/kg |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Zirconium | 0.0874 | 135 | NE | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Aluminum | 2 | 10800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Barium | 0.152 | 202 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Calcium | 1.028 | 45100 | NE | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Cobalt | 0.064 | 9.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Copper | 0.2205 | 16.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Magnesium | 1.176 | 12700 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Manganese | 0.0131 | 446 | NE | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Nickel | 0.1295 | 15.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Potassium | 2.079 | 898 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Strontium | 0.0735 | 411 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Titanium | 0.1175 | 481 | NE | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Tungsten | 0.0175 | 0.87 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Vanadium | 0.5535 | 47.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Zirconium | 0.0874 | 123 | NE | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Aluminum | 2 | 12400 | NE | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Barium | 0.152 | 218 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Calcium | 1.028 | 33300 | NE | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Cobalt | 0.064 | 9.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Copper | 0.2205 | 19.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Magnesium | 1.176 | 13400 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Manganese | 0.0131 | 562 | NE | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Nickel | 0.1295 | 16.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Potassium | 2.079 | 2400 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Strontium | 0.0735 | 200 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Titanium | 0.1175 | 540 | NE | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Vanadium | 0.5535 | 40.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Zirconium | 0.0874 | 123 | NE | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Aluminum | 2 | 10300 | NE | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Barium | 0.152 | 204 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Calcium | 5.14 | 65900 | NE | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Cobalt | 0.064 | 9.7 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Copper | 0.2205 | 18.8 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Magnesium | 1.176 | 12300 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Manganese | 0.0131 | 559 | NE | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Nickel | 0.1295 | 16.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Potassium | 2.079 | 1160 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Strontium | 0.0735 | 320 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Titanium | 0.1175 | 590 | NE | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Tungsten | 0.0175 | 0.88 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Vanadium | 0.5535 | 47.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Zirconium | 0.0874 | 134 | NE | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Aluminum | 2 | 11600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Barium | 0.152 | 169 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Calcium | 1.028 | 47000 | NE | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Cobalt | 0.064 | 10.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Copper | 0.2205 | 19.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Magnesium | 1.176 | 13000 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Manganese | 0.0131 | 432 | NE | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Nickel | 0.1295 | 17.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Potassium | 2.079 | 792 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Strontium | 0.0735 | 394 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Titanium | 0.1175 | 503 | NE | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Tungsten | 0.0175 | 0.67 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Vanadium | 0.5535 | 46.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Zirconium | 0.0874 | 124 | NE | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Aluminum | 2 | 12600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Barium | 0.152 | 191 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Calcium | 1.028 | 43200 | NE | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Cobalt | 0.064 | 12 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Copper | 0.2205 | 21.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Magnesium | 1.176 | 14400 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Manganese | 0.0131 | 503 | NE | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Nickel | 0.1295 | 19.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Potassium | 2.079 | 956 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Strontium | 0.0735 | 488 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Titanium | 0.1175 | 650 | NE | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Vanadium | 0.5535 | 59.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Zirconium | 0.0874 | 124 | NE | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Aluminum | 2 | 8080 | NE | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Barium | 0.152 | 119 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Calcium | 1.028 | 15800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Cobalt | 0.064 | 10.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Copper | 0.2205 | 21 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Magnesium | 1.176 | 10200 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Manganese | 0.0131 | 414 | NE | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Nickel | 0.1295 | 20.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Potassium | 2.079 | 1890 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Strontium | 0.0735 | 126 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Titanium | 0.1175 | 683 | NE | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Tungsten | 0.0175 | 0.62 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Vanadium | 0.5535 | 46.8 | E | J | j | mg/kg |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Zirconium | 0.0874 | 141 | NE | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Aluminum | 2 | 6800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Barium | 0.152 | 140 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Calcium | 1.028 | 17100 | NE | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Cobalt | 0.064 | 9.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Copper | 0.2205 | 20.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Magnesium | 1.176 | 8200 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Manganese | 0.0131 | 430 | NE | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Nickel | 0.1295 | 19.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Potassium | 2.079 | 1240 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Strontium | 0.0735 | 135 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Titanium | 0.1175 | 673 | NE | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Vanadium | 0.5535 | 43.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Zirconium | 0.0874 | 148 | NE | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Aluminum | 2 | 8440 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Barium | 0.152 | 154 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Calcium | 1.028 | 32300 | NE | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Cobalt | 0.064 | 9.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Copper | 0.2205 | 20.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Magnesium | 1.176 | 11600 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Manganese | 0.0131 | 382 | NE | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Nickel | 0.1295 | 20.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Potassium | 2.079 | 1350 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Strontium | 0.0735 | 211 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Titanium | 0.1175 | 657 | NE | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Vanadium | 0.5535 | 40.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Zirconium | 0.0874 | 145 | NE | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Aluminum | 2 | 6360 | NE | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Barium | 0.152 | 117 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Calcium | 1.028 | 14600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Cobalt | 0.064 | 9 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Copper | 0.2205 | 18.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Magnesium | 1.176 | 8370 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Manganese | 0.0131 | 438 | NE | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Nickel | 0.1295 | 15.8 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Potassium | 2.079 | 1240 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Strontium | 0.0735 | 97.7 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Titanium | 0.1175 | 509 | NE | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Tungsten | 0.0175 | 0.78 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Vanadium | 0.5535 | 34.7 | E | J | j | mg/kg |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Zirconium | 0.0874 | 132 | NE | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Aluminum | 2 | 8100 | NE | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Barium | 0.152 | 254 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Calcium | 1.028 | 28700 | NE | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Cobalt | 0.064 | 14.8 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Copper | 0.2205 | 22.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Magnesium | 1.176 | 10400 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Manganese | 0.0131 | 863 | NE | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Nickel | 0.1295 | 19.7 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Potassium | 2.079 | 1350 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Strontium | 0.0735 | 158 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Titanium | 0.1175 | 600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Vanadium | 0.5535 | 41.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Zirconium | 0.0874 | 157 | NE | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Aluminum | 2 | 7270 | NE | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Barium | 0.152 | 203 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Calcium | 1.028 | 21500 | NE | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Cobalt | 0.064 | 8.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Copper | 0.2205 | 17.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Magnesium | 1.176 | 9540 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Manganese | 0.0131 | 605 | NE | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Nickel | 0.1295 | 16 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Potassium | 2.079 | 1140 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Strontium | 0.0735 | 160 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Titanium | 0.1175 | 473 | NE | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Tungsten | 0.0175 | 2.1 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Vanadium | 0.5535 | 33.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Zirconium | 0.0874 | 158 | NE | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Aluminum | 2 | 6820 | NE | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Barium | 0.152 | 127 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Calcium | 1.028 | 17600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Cobalt | 0.064 | 9.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Copper | 0.2205 | 19 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Magnesium | 1.176 | 8590 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Manganese | 0.0131 | 434 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Nickel | 0.1295 | 18.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Potassium | 2.079 | 1580 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Strontium | 0.0735 | 119 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Titanium | 0.1175 | 618 | NE | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Tungsten | 0.0175 | 0.71 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Vanadium | 0.5535 | 47 | E | J | j | mg/kg |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Zirconium | 0.0874 | 132 | NE | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Aluminum | 2 | 8010 | NE | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Barium | 0.152 | 118 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Calcium | 1.028 | 19900 | NE | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Cobalt | 0.064 | 9.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Copper | 0.2205 | 19.7 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Magnesium | 1.176 | 9440 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Manganese | 0.0131 | 350 | NE | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Nickel | 0.1295 | 19.5 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Potassium | 2.079 | 1480 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Strontium | 0.0735 | 159 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Titanium | 0.1175 | 531 | NE | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Tungsten | 0.0175 | 0.7 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Vanadium | 0.5535 | 37 | E | J | j | mg/kg |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Zirconium | 0.0874 | 149 | NE | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Aluminum | 2 | 8250 | NE | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Barium | 0.152 | 139 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Calcium | 1.028 | 28800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Cobalt | 0.064 | 9.2 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Copper | 0.2205 | 20.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Magnesium | 1.176 | 11500 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Manganese | 0.0131 | 390 | NE | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Nickel | 0.1295 | 19.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Potassium | 2.079 | 1250 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Strontium | 0.0735 | 177 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Titanium | 0.1175 | 621 | NE | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Tungsten | 0.0175 | 0.74 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Vanadium | 0.5535 | 39.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Zirconium | 0.0874 | 142 | NE | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Aluminum | 2 | 12200 | NE | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Barium | 0.152 | 230 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Calcium | 1.028 | 16600 | NE | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Cobalt | 0.064 | 9.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Copper | 0.2205 | 16.6 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Magnesium | 1.176 | 11400 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Manganese | 0.0131 | 498 | NE | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Nickel | 0.1295 | 16.4 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Potassium | 2.079 | 2760 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Strontium | 0.0735 | 105 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Titanium | 0.1175 | 550 | NE | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Tungsten | 0.0175 | 0.49 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Vanadium | 0.5535 | 36.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Zirconium | 0.0874 | 112 | NE | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Aluminum | 2 | 8400 | NE | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Arsenic | 0.1278 | 6.1 | E | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Calcium | 1.028 | 30000 | NE | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Lead | 0.0506 | 10.9 | E | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Magnesium | 1.176 | 8240 | E | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Vanadium | 0.5535 | 41.1 | NE | J | j | mg/kg |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Zirconium | 0.0874 | 132 | NE | J- | j, e | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Aluminum | 2 | 9880 | NE | J | j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Arsenic | 0.1278 | 3.3 | E | J | j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Calcium | 1.028 | 22800 | NE | J | j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Lead | 0.0506 | 6.8 | E | J | j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Magnesium | 1.176 | 10900 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Vanadium | 0.5535 | 45.1 | NE | J | j | mg/kg |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Zirconium | 0.0874 | 103 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Aluminum | 2 | 13900 | NE | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Arsenic | 0.1278 | 5.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Calcium | 1.028 | 20400 | NE | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Lead | 0.0506 | 11.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Magnesium | 1.176 | 14200 | E | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Vanadium | 0.5535 | 44.9 | NE | J | j | mg/kg |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Zirconium | 0.0874 | 121 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Aluminum | 2 | 5090 | NE | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Arsenic | 0.1278 | 3.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Calcium | 1.028 | 27200 | NE | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Lead | 0.0506 | 4.9 | E | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Magnesium | 1.176 | 5470 | E | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Vanadium | 0.5535 | 25.5 | NE | J | j | mg/kg |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Zirconium | 0.0874 | 105 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Aluminum | 2 | 5570 | NE | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Arsenic | 0.1278 | 5.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Calcium | 1.028 | 47300 | NE | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Lead | 0.0506 | 4.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Magnesium | 1.176 | 8910 | E | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Vanadium | 0.5535 | 30.5 | NE | J | j | mg/kg |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Zirconium | 0.0874 | 106 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Aluminum | 2 | 11400 | NE | J | j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Arsenic | 0.1278 | 5.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Calcium | 1.028 | 24600 | NE | J | j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Lead | 0.0506 | 11.8 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Magnesium | 1.176 | 12700 | E | J | j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Vanadium | 0.5535 | 34.1 | NE | J | j | mg/kg |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Zirconium | 0.0874 | 112 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Aluminum | 2 | 6670 | NE | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Arsenic | 0.1278 | 4.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Calcium | 1.028 | 29600 | NE | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Lead | 0.0506 | 6.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Magnesium | 1.176 | 6370 | E | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Vanadium | 0.5535 | 33.5 | NE | J | j | mg/kg |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Zirconium | 0.0874 | 117 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Aluminum | 2 | 13100 | NE | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Arsenic | 0.1278 | 7.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Calcium | 1.028 | 43200 | NE | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Lead | 0.0506 | 10.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Magnesium | 1.176 | 14400 | E | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Tungsten | 0.0175 | 1.9 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Vanadium | 0.5535 | 41.9 | NE | J | j | mg/kg |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Zirconium | 0.0874 | 118 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Aluminum | 2 | 7190 | NE | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Arsenic | 0.1278 | 5.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Calcium | 5.14 | 82800 | NE | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Lead | 0.0506 | 5.9 | E | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Magnesium | 1.176 | 9370 | E | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Vanadium | 0.5535 | 32.6 | NE | J | j | mg/kg |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Zirconium | 0.0874 | 108 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Aluminum | 2 | 9210 | NE | J | j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Arsenic | 0.1278 | 4.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Calcium | 1.028 | 42500 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Lead | 0.0506 | 6 | E | J | j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Magnesium | 1.176 | 11000 | E | J | j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Vanadium | 0.5535 | 44.9 | NE | J | j | mg/kg |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Zirconium | 0.0874 | 94.9 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Aluminum | 2 | 11200 | NE | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Arsenic | 0.1278 | 6.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Calcium | 1.028 | 26500 | NE | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Lead | 0.0506 | 12.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Magnesium | 1.176 | 11600 | E | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Vanadium | 0.5535 | 36.7 | NE | J | j | mg/kg |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Zirconium | 0.0874 | 120 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Aluminum | 2 | 7890 | NE | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Arsenic | 0.1278 | 5.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Calcium | 5.14 | 71900 | NE | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Lead | 0.0506 | 7.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Magnesium | 1.176 | 10600 | E | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Tungsten | 0.0175 | 0.99 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Vanadium | 0.5535 | 33.8 | NE | J | j | mg/kg |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Zirconium | 0.0874 | 113 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Aluminum | 2 | 10300 | NE | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Arsenic | 0.1278 | 5.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Calcium | 1.028 | 44600 | NE | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Lead | 0.0506 | 6.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Magnesium | 1.176 | 13500 | E | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Vanadium | 0.5535 | 51.8 | NE | J | j | mg/kg |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Zirconium | 0.0874 | 107 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Aluminum | 2 | 6980 | NE | J | j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Arsenic | 0.1278 | 4.2 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Calcium | 1.028 | 19300 | NE | J | j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Lead | 0.0506 | 7.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Magnesium | 1.176 | 7380 | E | J | j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Tungsten | 0.0175 | 0.77 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Vanadium | 0.5535 | 23.6 | NE | J | j | mg/kg |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Zirconium | 0.0874 | 99.3 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Aluminum | 2 | 6530 | NE | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Arsenic | 0.1278 | 3 | E | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Calcium | 1.028 | 13500 | NE | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Lead | 0.0506 | 6.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Magnesium | 1.176 | 4690 | E | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Vanadium | 0.5535 | 30.8 | NE | J | j | mg/kg |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Zirconium | 0.0874 | 125 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Aluminum | 2 | 6420 | NE | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Arsenic | 0.1278 | 3.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Calcium | 1.028 | 20000 | NE | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Lead | 0.0506 | 6 | E | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Magnesium | 1.176 | 5530 | E | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Vanadium | 0.5535 | 34.6 | NE | J | j | mg/kg |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Zirconium | 0.0874 | 125 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Aluminum | 2 | 9620 | NE | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Arsenic | 0.1278 | 6.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Calcium | 1.028 | 30200 | NE | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Lead | 0.0506 | 9.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Magnesium | 1.176 | 10000 | E | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Tungsten | 0.0175 | 0.75 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Vanadium | 0.5535 | 36 | NE | J | j | mg/kg |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Zirconium | 0.0874 | 130 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Aluminum | 2 | 7650 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Arsenic | 0.1278 | 3.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Calcium | 1.028 | 13000 | NE | J | j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Lead | 0.0506 | 6.8 | E | J | j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Magnesium | 1.176 | 5670 | E | J | j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Vanadium | 0.5535 | 39.9 | NE | J | j | mg/kg |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Zirconium | 0.0874 | 138 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Aluminum | 2 | 6560 | NE | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Arsenic | 0.1278 | 3.9 | E | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Calcium | 1.028 | 26500 | NE | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Lead | 0.0506 | 5.7 | E | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Magnesium | 1.176 | 5640 | E | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Vanadium | 0.5535 | 33.9 | NE | J | j | mg/kg |
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Zirconium | 0.0874 | 126 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Aluminum | 2 | 10800 | NE | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Arsenic | 0.1278 | 5.9 | E | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Calcium | 1.028 | 30100 | NE | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Lead | 0.0506 | 9 | E | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Magnesium | 1.176 | 10200 | E | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Tungsten | 0.0175 | 1.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Vanadium | 0.5535 | 34.2 | NE | J | j | mg/kg |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Zirconium | 0.0874 | 134 | NE | J- | j, e | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Cobalt | 0.064 | 5.7 | E | J | j | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Manganese | 0.0131 | 270 | NE | J | j | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Nickel | 0.1295 | 10 | E | J | j | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Tungsten | 0.0175 | 1.5 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Vanadium | 0.5535 | 30.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Cobalt | 0.064 | 7 | E | J | j | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Manganese | 0.0131 | 339 | NE | J | j | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Nickel | 0.1295 | 12.8 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Tungsten | 0.0175 | 2.1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Vanadium | 0.5535 | 36.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Cobalt | 0.064 | 8.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Manganese | 0.0131 | 464 | NE | J | j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Nickel | 0.1295 | 17.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Tungsten | 0.0175 | 1.7 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Vanadium | 0.5535 | 40.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Cobalt | 0.064 | 6.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Manganese | 0.0131 | 304 | NE | J | j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Nickel | 0.1295 | 13.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Tungsten | 0.0175 | 2.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Vanadium | 0.5535 | 36.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Cobalt | 0.064 | 11.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Manganese | 0.0131 | 468 | NE | J | j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Nickel | 0.1295 | 10.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Vanadium | 0.5535 | 29 | E | J | j | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Cobalt | 0.064 | 4.8 | E | J | j | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Manganese | 0.0131 | 198 | NE | J | j | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Nickel | 0.1295 | 9.7 | E | J | j | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Vanadium | 0.5535 | 28.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Cobalt | 0.064 | 7.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Manganese | 0.0131 | 430 | NE | J | j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Nickel | 0.1295 | 15 | E | J | j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Tungsten | 0.0175 | 1.2 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Vanadium | 0.5535 | 34.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Cobalt | 0.064 | 6 | E | J | j | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Manganese | 0.0131 | 270 | NE | J | j | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Nickel | 0.1295 | 10.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Vanadium | 0.5535 | 34.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Cobalt | 0.064 | 4.4 | E | J | j | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Manganese | 0.0131 | 191 | NE | J | j | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Nickel | 0.1295 | 10.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Tungsten | 0.0175 | 1 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Vanadium | 0.5535 | 28.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Cobalt | 0.064 | 9.3 | E | J | j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Manganese | 0.0131 | 495 | NE | J | j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Nickel | 0.1295 | 17.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Tungsten | 0.0175 | 0.95 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Vanadium | 0.5535 | 35.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Cobalt | 0.064 | 6.2 | E | J | j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Manganese | 0.0131 | 321 | NE | J | j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Nickel | 0.1295 | 11.6 | E | J | j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Tungsten | 0.0175 | 1.8 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Vanadium | 0.5535 | 31.1 | E | J | j | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Cobalt | 0.064 | 4.7 | E | J | j | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Manganese | 0.0131 | 169 | NE | J | j | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Nickel | 0.1295 | 11.5 | E | J | j | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Tungsten | 0.0175 | 1.6 | BE | UJ | b, j | mg/kg |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Vanadium | 0.5535 | 28.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Aluminum | 2 | 5530 | NE | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Barium | 0.152 | 424 | NE | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Cobalt | 0.064 | 5.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Magnesium | 1.176 | 5450 | E | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Nickel | 0.1295 | 11.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Potassium | 2.079 | 1520 | E | J | j | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Aluminum | 2 | 5480 | NE | J | j | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Barium | 0.152 | 436 | NE | J | j | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Cobalt | 0.064 | 6.5 | E | J | j | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Magnesium | 1.176 | 4930 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Nickel | 0.1295 | 11.2 | E | J | j | mg/kg |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Potassium | 2.079 | 1580 | E | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Aluminum | 2 | 6180 | NE | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Barium | 0.152 | 697 | NE | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Cobalt | 0.064 | 12.3 | E | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Magnesium | 1.176 | 5920 | E | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Nickel | 0.1295 | 12.6 | E | J | j | mg/kg |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Potassium | 2.079 | 1380 | E | J | j | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Aluminum | 2 | 8220 | NE | J | j | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Barium | 0.152 | 185 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Cobalt | 0.064 | 9.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Magnesium | 1.176 | 10300 | E | J | j | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Nickel | 0.1295 | 17.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Potassium | 2.079 | 1830 | E | J | j | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Aluminum | 2 | 6520 | NE | J | j | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Barium | 0.152 | 138 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Cobalt | 0.064 | 7.7 | E | J | j | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Magnesium | 1.176 | 9410 | E | J | j | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Nickel | 0.1295 | 13.7 | E | J | j | mg/kg |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Potassium | 2.079 | 982 | E | J | j | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Aluminum | 2 | 8470 | NE | J | j | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Barium | 0.152 | 166 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Cobalt | 0.064 | 7.9 | E | J | j | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Magnesium | 1.176 | 16600 | E | J | j | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Nickel | 0.1295 | 16.6 | E | J | j | mg/kg |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Potassium | 2.079 | 1170 | E | J | j | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Aluminum | 2 | 3740 | NE | J | j | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Barium | 0.152 | 82.5 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Cobalt | 0.064 | 3.7 | E | J | j | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Magnesium | 1.176 | 5960 | E | J | j | mg/kg |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Nickel | 0.1295 | 7.9 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Potassium | 2.079 | 1160 | E | J | j | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Aluminum | 2 | 5230 | NE | J | j | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Barium | 0.152 | 114 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Cobalt | 0.064 | 5.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Magnesium | 1.176 | 5070 | E | J | j | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Nickel | 0.1295 | 9.2 | E | J | j | mg/kg |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Potassium | 2.079 | 1720 | E | J | j | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Aluminum | 2 | 10300 | NE | J | j | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Barium | 0.152 | 162 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Cobalt | 0.064 | 6.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Magnesium | 1.176 | 14000 | E | J | j | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Nickel | 0.1295 | 15 | E | J | j | mg/kg |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Potassium | 2.079 | 3150 | E | J | j | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Aluminum | 2 | 4130 | NE | J | j | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Barium | 0.152 | 102 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Cobalt | 0.064 | 3.9 | E | J | j | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Magnesium | 1.176 | 6680 | E | J | j | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Nickel | 0.1295 | 8 | E | J | j | mg/kg |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Potassium | 2.079 | 1310 | E | J | j | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Aluminum | 2 | 6300 | NE | J | j | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Barium | 0.152 | 604 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Cobalt | 0.064 | 9.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Magnesium | 1.176 | 6650 | E | J | j | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Nickel | 0.1295 | 13.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Potassium | 2.079 | 1840 | E | J | j | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Aluminum | 2 | 4840 | NE | J | j | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Barium | 0.152 | 346 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Cobalt | 0.064 | 6 | E | J | j | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Magnesium | 1.176 | 5100 | E | J | j | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Nickel | 0.1295 | 11.3 | E | J | j | mg/kg |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Potassium | 2.079 | 1240 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Aluminum | 2 | 6150 | NE | J | j | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Barium | 0.152 | 836 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Cobalt | 0.064 | 5.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Magnesium | 1.176 | 5240 | E | J | j | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Nickel | 0.1295 | 11.2 | E | J | j | mg/kg |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Potassium | 2.079 | 1380 | E | J | j | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Aluminum | 2 | 6240 | NE | J | j | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Barium | 0.152 | 369 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Cobalt | 0.064 | 6.1 | E | J | j | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Magnesium | 1.176 | 6880 | E | J | j | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Nickel | 0.1295 | 12.1 | E | J | j | mg/kg |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Potassium | 2.079 | 1840 | E | J | j | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Aluminum | 2 | 5090 | NE | J | j | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Barium | 0.152 | 395 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Cobalt | 0.064 | 5.1 | E | J | j | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Magnesium | 1.176 | 4580 | E | J | j | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Nickel | 0.1295 | 10 | E | J | j | mg/kg |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Potassium | 2.079 | 1240 | E | J | j | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Aluminum | 2 | 6370 | NE | J | j | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Barium | 0.152 | 573 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Cobalt | 0.064 | 5.2 | E | J | j | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Magnesium | 1.176 | 5340 | E | J | j | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Nickel | 0.1295 | 8.9 | E | J | j | mg/kg |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Potassium | 2.079 | 1240 | E | J | j | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Aluminum | 2 | 7500 | NE | J | j | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Barium | 0.152 | 122 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Cobalt | 0.064 | 8.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Magnesium | 1.176 | 9190 | E | J | j | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Nickel | 0.1295 | 17.5 | E | J | j | mg/kg |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Potassium | 2.079 | 1940 | E | J | j | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Aluminum | 2 | 5660 | NE | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Barium | 0.152 | 77.2 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Cobalt | 0.064 | 8.1 | E | J | j | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Magnesium | 1.176 | 7000 | E | J | j | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Nickel | 0.1295 | 16.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Potassium | 2.079 | 872 | E | J | j | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Aluminum | 2 | 6530 | NE | J | j | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Barium | 0.152 | 118 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Cobalt | 0.064 | 8.9 | E | J | j | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Magnesium | 1.176 | 8910 | E | J | j | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Nickel | 0.1295 | 17.6 | E | J | j | mg/kg |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Potassium | 2.079 | 918 | E | J | j | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Aluminum | 2 | 7820 | NE | J | j | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Barium | 0.152 | 141 | NE | J+ | j, e | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Cobalt | 0.064 | 9.5 | E | J | j | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Magnesium | 1.176 | 8970 | E | J | j | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Nickel | 0.1295 | 18.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Potassium | 2.079 | 1870 | E | J | j | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Tungsten | 0.0175 | 0.64 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Vanadium | 0.5535 | 29.2 | E | J | j | mg/kg |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Zirconium | 0.0874 | 135 | E | J | j | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Tungsten | 0.0175 | 0.51 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Vanadium | 0.5535 | 36.9 | E | J | j | mg/kg |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Zirconium | 0.0874 | 129 | E | J | j | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Tungsten | 0.0175 | 1.4 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Vanadium | 0.5535 | 32.5 | E | J | j | mg/kg |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Zirconium | 0.0874 | 140 | E | J | j | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Tungsten | 0.0175 | 0.99 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Vanadium | 0.5535 | 21.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Zirconium | 0.0874 | 152 | E | J | j | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Tungsten | 0.0175 | 0.89 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Vanadium | 0.5535 | 38.9 | E | J | j | mg/kg |

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|-----------|-----------------|--------|----|-----------|---------|-------|
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Zirconium | 0.0874 | 152 | E | J | j | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Tungsten | 0.0175 | 0.93 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Vanadium | 0.5535 | 32.5 | E | J | j | mg/kg |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Zirconium | 0.0874 | 109 | E | J | j | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Tungsten | 0.0175 | 0.75 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Vanadium | 0.5535 | 36.4 | E | J | j | mg/kg |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Zirconium | 0.0874 | 117 | E | J | j | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Tungsten | 0.0175 | 0.87 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Vanadium | 0.5535 | 40.3 | E | J | j | mg/kg |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Zirconium | 0.0874 | 103 | E | J | j | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Tungsten | 0.0175 | 0.97 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Vanadium | 0.5535 | 46.8 | E | J | j | mg/kg |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Zirconium | 0.0874 | 118 | E | J | j | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Tungsten | 0.0175 | 2 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Vanadium | 0.5535 | 38 | E | J | j | mg/kg |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Zirconium | 0.0874 | 116 | E | J | j | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Tungsten | 0.0175 | 1.3 | BE | UJ | b, j | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Vanadium | 0.5535 | 35.6 | E | J | j | mg/kg |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Zirconium | 0.0874 | 86.1 | E | J | j | mg/kg |

Notes:

- + Result is possibly biased high
- Result is possibly biased low
- * Laboratory qualification due to poor duplicate precision
- b Qualified due to blank contamination
- B Reported value is greater than the SQL, but less than the PQL
- d Qualified due to poor duplicate precision
- e Qualified due to matrix spike or laboratory control sample issues
- E Estimated due to possible matrix interference
- j Qualified because result is greater than the SQL, but less than the PQL

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

J Result is estimated
mg/kg Milligram per kilogram
MDC Minimum detectable concentration
N Analyte identification is tentative
pCi/g PicoCurie per gram
PQL Practical quantitation limit
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected
UJ Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 12
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Radium 228 | 0.69 | 1.35 J | U | k, b | pCi/g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Thorium 230 | 0.05 | 0.95 J | J | k | pCi/g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Uranium 238 | 0.07 | 0.82 J | J | k | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.165 | 0.635 J | J | k, n | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Radium 226 | 0.165 | 0.635 J | J | k, n | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Radium 228 | 0.687 | 1.91 J | U | k, b | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Thorium 230 | 0.1 | 0.81 J | J | k | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Uranium 235 | 0.081 | 0.087 J | J | k | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Uranium 238 | 0.06 | 0.85 J | J | k | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Radium 228 | 0.588 | 1.46 J | U | k, b | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Thorium 230 | 0.07 | 0.88 J | J | k | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Uranium 235 | 0.04 | 0.059 J | J | k | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Uranium 238 | 0.05 | 0.77 J | J | k | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.215 | 0.577 J | J | k, n | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Radium 226 | 0.215 | 0.577 J | J | k, n | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Radium 228 | 0.648 | 1.59 J | U | k, b | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Thorium 230 | 0.1 | 0.92 J | J | k | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Uranium 235 | 0.038 | 0.043 J | J | k | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.196 | 0.494 J | J | k | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Radium 226 | 0.196 | 0.494 J | J | k | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Radium 228 | 0.764 | 1.6 J | R | k, e | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Thorium 230 | 0.06 | 0.86 J | J | k | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Uranium 235 | 0.041 | 0.061 J | J | k | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Uranium 238 | 0.06 | 0.84 J | J | k | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.134 | 0.817 J | J | k, n | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Radium 226 | 0.134 | 0.817 J | J | k, n | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Radium 228 | 0.597 | 1.47 J | U | k, b | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.143 | 0.925 J | J | k | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Radium 226 | 0.143 | 0.925 J | J | k | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Radium 228 | 0.446 | 0.946 J | U | k, b | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Thorium 230 | 0.1 | 0.92 J | J | k | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Uranium 235 | 0.096 | 0.101 J | J | k | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.124 | 0.877 J | J | k | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Radium 226 | 0.124 | 0.877 J | J | k | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Radium 228 | 0.487 | 1.11 J | U | k, b | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Thorium 230 | 0.07 | 0.91 J | J | k | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Uranium 235 | 0.063 | 0.101 J | J | k | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.214 | 0.595 J | J | k | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Radium 226 | 0.214 | 0.595 J | J | k | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Radium 228 | 0.495 | 1.82 J | U | k, b | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Thorium 230 | 0.08 | 0.82 J | J | k | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Uranium 238 | 0.09 | 0.81 J | J | k | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.185 | 0.507 J | J | k, n | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Radium 226 | 0.185 | 0.507 J | J | k, n | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Thorium 230 | 0.05 | 0.98 J | J | k | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.138 | 0.893 J | J | k, n | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Radium 226 | 0.138 | 0.893 J | J | k, n | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Radium 228 | 0.463 | 1.78 J | U | k, b | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Thorium 230 | 0.1 | 0.77 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0936 | 0.714 J | J | k, n | pCi/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Radium 226 | 0.0936 | 0.714 J | J | k, n | pCi/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Thorium 230 | 0.1 | 0.93 J | J | k | pCi/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Radium 228 | 0.537 | 1.5 J | U | k, b | pCi/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Uranium 235 | 0.045 | 0.083 J | J | k | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.136 | 0.879 J | J | k | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Radium 226 | 0.136 | 0.879 J | J | k | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Radium 228 | 0.443 | 1.86 J | U | k, b | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Uranium 235 | 0.042 | 0.124 J | J | k | pCi/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Radium 228 | 0.846 | 1.92 J | J | k | pCi/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Thorium 230 | 0.08 | 0.93 J | J | k | pCi/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Uranium 235 | 0.048 | 0.054 J | J | k | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0975 | 0.792 J | J | k | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Radium 226 | 0.0975 | 0.792 J | J | k | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Radium 228 | 0.847 | 1.7 J | J | k | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Thorium 230 | 0.08 | 0.92 J | J | k | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Uranium 238 | 0.1 | 0.65 J | J | k | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.172 | 0.865 J | J | k, n | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Radium 226 | 0.172 | 0.865 J | J | k, n | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Radium 228 | 0.85 | 1.44 J | J | k | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Uranium 235 | 0.1 | 0.12 J | J | k | pCi/g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Radium 228 | 0.76 | 1.73 J | J | k | pCi/g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Uranium 235 | 0.077 | 0.087 J | J | k | pCi/g |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.188 | 0.784 J | J | k | pCi/g |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Radium 226 | 0.188 | 0.784 J | J | k | pCi/g |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Radium 228 | 0.705 | 1.66 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Uranium 238 | 0.08 | 0.93 J | J | k | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Radium 228 | 0.649 | 1.97 J | J | k | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Uranium 235 | 0.036 | 0.054 J | J | k | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Uranium 238 | 0.05 | 0.69 J | J | k | pCi/g |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Uranium 238 | 0.05 | 0.78 J | J | k | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0996 | 0.97 J | J | k | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Radium 226 | 0.0996 | 0.97 J | J | k | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Radium 228 | 0.621 | 1.37 J | J | k | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Thorium 230 | 0.09 | 0.75 J | J | k | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Uranium 238 | 0.07 | 0.87 J | J | k | pCi/g |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.139 | 0.938 J | J | k | pCi/g |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Radium 226 | 0.139 | 0.938 J | J | k | pCi/g |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Uranium 238 | 0.09 | 0.94 J | J | k | pCi/g |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Radium 228 | 0.821 | 1.69 J | J | k | pCi/g |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Radium 228 | 0.72 | 1.74 J | J | k | pCi/g |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Radium 228 | 0.66 | 1.85 J | J | k | pCi/g |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0952 | 0.984 J | J | k | pCi/g |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Radium 226 | 0.0952 | 0.984 J | J | k | pCi/g |
| F5F170373 | F5F170373006 | BRC-BKG-06B-9-11 | Soil | Radium 228 | 0.577 | 1.86 J | J | k | pCi/g |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.127 | 0.693 J | J | k | pCi/g |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Radium 226 | 0.127 | 0.693 J | J | k | pCi/g |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Radium 228 | 0.556 | 1.97 J | J | k | pCi/g |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0558 | 0.807 J | J | k, n | pCi/g |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Radium 226 | 0.0558 | 0.807 J | J | k, n | pCi/g |
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Radium 228 | 0.552 | 1.15 J | J | k | pCi/g |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Radium 228 | 0.515 | 1.68 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.0838 | 0.89 J | J | k | pCi/g |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Radium 226 | 0.0838 | 0.89 J | J | k | pCi/g |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.125 | 0.833 J | J | k | pCi/g |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Radium 226 | 0.125 | 0.833 J | J | k | pCi/g |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.153 | 0.96 J | J | k | pCi/g |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Radium 226 | 0.153 | 0.96 J | J | k | pCi/g |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Radium 228 | 0.705 | 1.95 J | J | k | pCi/g |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.141 | 0.987 J | J | k | pCi/g |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Radium 226 | 0.141 | 0.987 J | J | k | pCi/g |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Radium 228 | 0.627 | 1.3 J | J | k | pCi/g |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Radium 228 | 0.706 | 1.93 J | J | k | pCi/g |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.186 | 0.968 J | J | k | pCi/g |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Radium 226 | 0.186 | 0.968 J | J | k | pCi/g |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Radium 228 | 0.415 | 1.67 J | J | k | pCi/g |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.128 | 0.773 J | J | k | pCi/g |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Radium 226 | 0.128 | 0.773 J | J | k | pCi/g |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Radium 228 | 0.492 | 1.49 J | J | k | pCi/g |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Radium 228 | 0.492 | 1.42 J | J | k | pCi/g |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Uranium 238 | 0.08 | 0.77 J | J | k | pCi/g |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Uranium 235 | 0.05 | 0.12 J | J | k | pCi/g |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Radium 228 | 0.533 | 1.67 J | J | k | pCi/g |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Uranium 235 | 0.039 | 0.043 J | J | k | pCi/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.11 | 0.968 J | J | k | pCi/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Radium 226 | 0.11 | 0.968 J | J | k | pCi/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Radium 228 | 0.548 | 1.28 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Uranium 235 | 0.037 | 0.042 J | J | k | pCi/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Uranium 238 | 0.05 | 0.78 J | J | k | pCi/g |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Radium 228 | 0.583 | 1.83 J | J | k | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Radium 228 | 0.557 | 1.41 J | J | k | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Uranium 238 | 0.1 | 0.92 J | J | k | pCi/g |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Radium 228 | 0.624 | 1.3 J | J | k | pCi/g |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Uranium 235 | 0.068 | 0.093 J | J | k | pCi/g |
| F5F180132 | F5F180132008 | BRC-BKG-07A-9-11 | Soil | Uranium 235 | 0.038 | 0.126 J | J | k | pCi/g |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Uranium 235 | 0.066 | 0.089 J | J | k | pCi/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Radium 228 | 0.62 | 1.34 J | J | k | pCi/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Uranium 235 | 0.03 | 0.21 J | J | k | pCi/g |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Uranium 235 | 0.051 | 0.076 J | J | k | pCi/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.186 | 0.945 J | J | k, n | pCi/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Radium 226 | 0.186 | 0.945 J | J | k, n | pCi/g |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.156 | 0.965 J | J | k | pCi/g |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Radium 226 | 0.156 | 0.965 J | J | k | pCi/g |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Uranium 238 | 0.09 | 0.99 J | J | k | pCi/g |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Radium 228 | 0.572 | 1.91 J | J | k | pCi/g |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Radium 228 | 0.636 | 1.61 J | J | k | pCi/g |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Uranium 238 | 0.07 | 0.74 J | J | k | pCi/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.152 | 0.952 J | J | k, n | pCi/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Radium 226 | 0.152 | 0.952 J | J | k, n | pCi/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Radium 228 | 0.49 | 1.96 J | J | k | pCi/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Uranium 238 | 0.05 | 0.98 J | J | k | pCi/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Radium 228 | 0.489 | 1.75 J | J | k | pCi/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Uranium 235 | 0.042 | 0.077 J | J | k | pCi/g |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Thorium 230 | 0.09 | 0.99 J | J | k | pCi/g |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Radium 228 | 0.443 | 1.85 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Uranium 235 | 0.1 | 0.13 J | J | k | pCi/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Uranium 235 | 0.094 | 0.099 J | J | k | pCi/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Uranium 235 | 0.072 | 0.098 J | J | k | pCi/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Uranium 238 | 0.04 | 0.83 J | J | k | pCi/g |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Uranium 238 | 0.08 | 0.98 J | J | k | pCi/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Uranium 235 | 0.1 | 0.13 J | J | k | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.119 | 0.63 J | U | k, b | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Radium 226 | 0.119 | 0.63 J | U | k, b | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Thorium 230 | 0.1 | 0.72 J | J | k | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Uranium 235 | 0.049 | 0.054 J | J | k | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Uranium 238 | 0.08 | 0.59 J | J | k | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.108 | 0.637 J | J | k | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Radium 226 | 0.108 | 0.637 J | J | k | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Thorium 230 | 0.07 | 0.87 J | J | k | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Uranium 238 | 0.06 | 0.66 J | J | k | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.161 | 0.583 J | J | k | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Radium 226 | 0.161 | 0.583 J | J | k | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Thorium 230 | 0.1 | 0.66 J | J | k | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Uranium 238 | 0.09 | 0.76 J | J | k | pCi/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Uranium 235 | 0.1 | 0.13 J | J | k | pCi/g |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Thorium 230 | 0.06 | 0.8 J | J | k | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.279 | 0.855 J | J | k | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Radium 226 | 0.279 | 0.855 J | J | k | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Radium 228 | 0.574 | 1.86 J | R | k, e | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Uranium 238 | 0.09 | 0.88 J | J | k | pCi/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Radium 228 | 0.78 | 1.94 J | R | k, e | pCi/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Uranium 235 | 0.04 | 0.17 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.188 | 0.835 J | J | k | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Radium 226 | 0.188 | 0.835 J | J | k | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Radium 228 | 0.6 | 1.8 J | R | k, e | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Uranium 235 | 0.07 | 0.13 J | J | k | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Uranium 238 | 0.12 | 0.94 J | J | k | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.197 | 0.756 J | U | k, b | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Radium 226 | 0.197 | 0.756 J | U | k, b | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Thorium 230 | 0.06 | 0.84 J | J | k | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Uranium 238 | 0.08 | 0.82 J | J | k | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.174 | 0.784 J | J | k, n | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Radium 226 | 0.174 | 0.784 J | J | k, n | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Radium 228 | 0.666 | 1.71 J | R | k, e | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Thorium 230 | 0.07 | 0.78 J | J | k | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Uranium 238 | 0.08 | 0.58 J | J | k | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.226 | 0.872 J | U | k, b | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Radium 226 | 0.226 | 0.872 J | U | k, b | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Thorium 230 | 0.09 | 0.78 J | J | k | pCi/g |
| F5F210233 | F5F210233014 | BRC-BKG-12B-0-0.5 | Soil | Uranium 238 | 0.12 | 0.57 J | J | k | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.239 | 0.592 J | U | k, b | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Radium 226 | 0.239 | 0.592 J | U | k, b | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Uranium 235 | 0.068 | 0.076 J | J | k | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Uranium 238 | 0.03 | 0.64 J | J | k | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.173 | 0.926 J | J | k, n | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Radium 226 | 0.173 | 0.926 J | J | k, n | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Radium 228 | 0.67 | 1.52 J | R | k, e | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Thorium 230 | 0.05 | 0.82 J | J | k | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Uranium 238 | 0.08 | 0.81 J | J | k | pCi/g |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Uranium 238 | 0.03 | 0.89 J | J | k | pCi/g |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Uranium 235 | 0.036 | 0.053 J | J | k | pCi/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Thorium 230 | 0.08 | 0.97 J | J | k | pCi/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Uranium 235 | 0.033 | 0.037 J | J | k | pCi/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Uranium 238 | 0.03 | 0.94 J | J | k | pCi/g |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Thorium 230 | 0.03 | 0.73 J | J | k | pCi/g |
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Uranium 238 | 0.09 | 0.94 J | J | k | pCi/g |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Uranium 238 | 0.04 | 0.97 J | J | k | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.176 | 0.978 J | U | k, b | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Radium 226 | 0.176 | 0.978 J | U | k, b | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 230 | 0.06 | 0.98 J | J | k | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.104 | 0.977 J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Radium 226 | 0.104 | 0.977 J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Radium 228 | 0.452 | 1.93 J | U | k, b | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Thorium 230 | 0.05 | 0.94 J | J | k | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Uranium 238 | 0.07 | 0.96 J | J | k | pCi/g |

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|-------------------|--------|---|-----------------|---------|-----------|---------|-------|
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.128 | 0.939 J | U | k, b | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Radium 226 | 0.128 | 0.939 J | U | k, b | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Uranium 235 | 0.081 | 0.087 J | J | k | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Uranium 238 | 0.06 | 0.89 J | J | k | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Polonium 218 (assumes equilibrium w/ Ra-226) | 0.143 | 0.999 J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Radium 226 | 0.143 | 0.999 J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Radium 228 | 0.44 | 1.34 J | U | k, b | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Uranium 235 | 0.041 | 0.06 J | J | k | pCi/g |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Uranium 235 | 0.039 | 0.058 J | J | k | pCi/g |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Uranium 238 | 0.06 | 0.95 J | J | k | pCi/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Radium 228 | 0.69 | 1.68 J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Uranium 235 | 0.1 | 0.18 J | J | k | pCi/g |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Radium 228 | 0.766 | 2 J | U | k, e, b | pCi/g |
| F5F210233 | F5F210233035 | BRC-BKG-11B-9-11 | Soil | Radium 228 | 0.752 | 1.55 J | U | k, e, b | pCi/g |

Notes:

- | | |
|--|---|
| <ul style="list-style-type: none"> + Result is possibly biased high - Result is possibly biased low b Qualified due to blank contamination e Qualified due to poor MS or LCS J Result is estimated k Qualified because result is greater than the MDC but less than the required reporting limit | <ul style="list-style-type: none"> LCS Laboratory control sample MDC Minimum detectable concentration MS Matrix spike n Qualified due to poor tracer yield pCi/g PicoCurie per gram RL Reporting limit SDG Sample delivery group |
|--|---|

¹ The RL represents the MDC for radionuclides.

TABLE 13
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-------------|-----------------|--------|-----------|---------|-------|
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Thorium 232 | 0.86 | 1.24 | X | 1 | pCi/g |
| F5F160308 | F5F160308002 | BRC-BKG-04B-9-11 | Soil | Thorium 232 | 0.84 | 1.85 | X | 1 | pCi/g |
| F5F160308 | F5F160308004 | BRC-BKG-04A-0-0.5 | Soil | Thorium 232 | 0.86 | 1.69 | X | 1 | pCi/g |
| F5F160308 | F5F160308005 | BRC-BKG-04A-4-6 | Soil | Thorium 232 | 0.73 | 1.61 | X | 1 | pCi/g |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Thorium 232 | 0.96 | 1.85 | X | 1 | pCi/g |
| F5F160308 | F5F160308007 | BRC-BKG-04C-4-6 | Soil | Thorium 232 | 0.86 | 1.32 | X | 1 | pCi/g |
| F5F160308 | F5F160308008 | BRC-BKG-04C-9-11 | Soil | Thorium 232 | 0.83 | 1.86 | X | 1 | pCi/g |
| F5F160308 | F5F160308009 | BRC-BKG-09B-0-0.5 | Soil | Thorium 232 | 0.73 | 1.29 | X | 1 | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | Thorium 232 | 0.86 | 1.99 | X | 1 | pCi/g |
| F5F160308 | F5F160308011 | BRC-BKG-04A-9-11 | Soil | Thorium 232 | 0.82 | 1.43 | X | 1 | pCi/g |
| F5F160308 | F5F160308012 | BRC-BKG-04B-0-0.5 | Soil | Thorium 232 | 1 | 1.22 | X | 1 | pCi/g |
| F5F160308 | F5F160308013 | BRC-BKG-05A-0-0.5 | Soil | Thorium 232 | 0.73 | 1.29 | X | 1 | pCi/g |
| F5F160308 | F5F160308014 | BRC-BKG-05A-4-6 | Soil | Thorium 232 | 1.2 | 1.98 | X | 1 | pCi/g |
| F5F160308 | F5F160308015 | BRC-BKG-05B-0-0.5 | Soil | Thorium 232 | 0.59 | 2.36 | X | 1 | pCi/g |
| F5F160308 | F5F160308016 | BRC-BKG-05C-0-0.5 | Soil | Thorium 232 | 0.92 | 1.97 | X | 1 | pCi/g |
| F5F160308 | F5F160308017 | BRC-BKG-09A-0-0.5 | Soil | Thorium 232 | 0.83 | 1.16 | X | 1 | pCi/g |
| F5F160308 | F5F160308018 | BRC-BKG-09A-4-6 | Soil | Thorium 232 | 0.77 | 1.91 | X | 1 | pCi/g |
| F5F160308 | F5F160308019 | BRC-BKG-09A-9-11 | Soil | Thorium 232 | 0.71 | 1.93 | X | 1 | pCi/g |
| F5F160308 | F5F160308020 | BRC-BKG-09B-4-6 | Soil | Thorium 232 | 1 | 1.17 | X | 1 | pCi/g |
| F5F160308 | F5F160308021 | BRC-BKG-09B-9-11 | Soil | Thorium 232 | 0.52 | 2.34 | X | 1 | pCi/g |
| F5F160308 | F5F160308022 | BRC-BKG-09C-0-0.5 | Soil | Thorium 232 | 0.72 | 2.42 | X | 1 | pCi/g |
| F5F160308 | F5F160308023 | BRC-BCG-09C-0-0.5 | Soil | Thorium 232 | 0.73 | 1.43 | X | 1 | pCi/g |
| F5F160308 | F5F160308024 | BRC-BKG-09C-4-6 | Soil | Thorium 232 | 0.89 | 1.2 | X | 1 | pCi/g |
| F5F160308 | F5F160308025 | BRC-BKG-09C-9-11 | Soil | Thorium 232 | 1 | 1.65 | X | 1 | pCi/g |
| F5F170373 | F5F170373001 | BRC-BKG-06A-0-0.5 | Soil | Thorium 232 | 1.2 | 2.16 | X | 1 | pCi/g |
| F5F170373 | F5F170373002 | BRC-BKG-06A-4-6 | Soil | Thorium 232 | 0.87 | 1.66 | X | 1 | pCi/g |
| F5F170373 | F5F170373003 | BRC-BKG-06A-9-11 | Soil | Thorium 232 | 0.97 | 1.53 | X | 1 | pCi/g |
| F5F170373 | F5F170373004 | BRC-BKG-06B-0-0.5 | Soil | Thorium 232 | 0.81 | 1.84 | X | 1 | pCi/g |
| F5F170373 | F5F170373005 | BRC-BKG-06B-4-6 | Soil | Thorium 232 | 0.73 | 1.47 | X | 1 | pCi/g |
| F5F170373 | F5F170373007 | BRC-BKG-06C-0-0.5 | Soil | Thorium 232 | 0.91 | 1.77 | X | 1 | pCi/g |

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|------------|---------------|-------------------|---------------|----------------|------------------------|---------------|------------------|----------------|-------------|
| F5F170373 | F5F170373008 | BRC-BKG-06C-4-6 | Soil | Thorium 232 | 0.97 | 1.04 | X | 1 | pCi/g |
| F5F170373 | F5F170373009 | BRC-BKG-06C-8-12 | Soil | Thorium 232 | 0.93 | 1.27 | X | 1 | pCi/g |
| F5F170373 | F5F170373010 | BRC-BCG-06C-8-12 | Soil | Thorium 232 | 0.77 | 1.53 | X | 1 | pCi/g |
| F5F170373 | F5F170373011 | BRC-BKG-08A-0-0.5 | Soil | Thorium 232 | 1.2 | 2.09 | X | 1 | pCi/g |
| F5F170373 | F5F170373012 | BRC-BKG-08A-4-6 | Soil | Thorium 232 | 0.58 | 1.93 | X | 1 | pCi/g |
| F5F170373 | F5F170373013 | BRC-BKG-08A-9-11 | Soil | Thorium 232 | 0.73 | 2.3 | X | 1 | pCi/g |
| F5F170373 | F5F170373014 | BRC-BKG-08B-0-0.5 | Soil | Thorium 232 | 0.79 | 2.1 | X | 1 | pCi/g |
| F5F170373 | F5F170373015 | BRC-BKG-08B-4-6 | Soil | Thorium 232 | 0.92 | 1.14 | X | 1 | pCi/g |
| F5F170373 | F5F170373016 | BRC-BKG-08B-9-11 | Soil | Thorium 232 | 0.69 | 1.45 | X | 1 | pCi/g |
| F5F170373 | F5F170373017 | BRC-BKG-08C-0-0.5 | Soil | Thorium 232 | 0.93 | 1.65 | X | 1 | pCi/g |
| F5F170373 | F5F170373018 | BRC-BKG-08C-4-6 | Soil | Thorium 232 | 1 | 2.32 | X | 1 | pCi/g |
| F5F170373 | F5F170373019 | BRC-BKG-08C-9-11 | Soil | Thorium 232 | 0.69 | 1.86 | X | 1 | pCi/g |
| F5F170373 | F5F170373020 | BRC-BKG-07B-0-0.5 | Soil | Thorium 232 | 0.85 | 1.25 | X | 1 | pCi/g |
| F5F170373 | F5F170373021 | BRC-BKG-07B-4-6 | Soil | Thorium 232 | 0.93 | 2.08 | X | 1 | pCi/g |
| F5F170373 | F5F170373022 | BRC-BKG-07B-9-11 | Soil | Thorium 232 | 0.77 | 1.38 | X | 1 | pCi/g |
| F5F180132 | F5F180132001 | BRC-BKG-01A-0-0.5 | Soil | Thorium 232 | 0.73 | 1.74 | X | 1 | pCi/g |
| F5F180132 | F5F180132002 | BRC-BKG-01A-4-6 | Soil | Thorium 232 | 0.66 | 1.17 | X | 1 | pCi/g |
| F5F180132 | F5F180132003 | BRC-BKG-01A-9-11 | Soil | Thorium 232 | 0.77 | 1.65 | X | 1 | pCi/g |
| F5F180132 | F5F180132004 | BRC-BKG-01B-0-0.5 | Soil | Thorium 232 | 0.79 | 1.41 | X | 1 | pCi/g |
| F5F180132 | F5F180132005 | BRC-BKG-01B-4-6 | Soil | Thorium 232 | 1.1 | 1.93 | X | 1 | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Thorium 232 | 0.94 | 1.64 | X | 1 | pCi/g |
| F5F180132 | F5F180132006 | BRC-BKG-07A-0-0.5 | Soil | Uranium 238 | 1.2 | 1.3 | X | 1 | pCi/g |
| F5F180132 | F5F180132007 | BRC-BKG-07A-4-6 | Soil | Thorium 232 | 0.91 | 1.37 | X | 1 | pCi/g |
| F5F180132 | F5F180132009 | BRC-BKG-07C-0-0.5 | Soil | Thorium 232 | 0.96 | 1.69 | X | 1 | pCi/g |
| F5F180132 | F5F180132010 | BRC-BKG-07C-4-6 | Soil | Thorium 232 | 0.93 | 1.12 | X | 1 | pCi/g |
| F5F180132 | F5F180132011 | BRC-BKG-07C-9-11 | Soil | Uranium 238 | 1.2 | 1.8 | X | 1 | pCi/g |
| F5F180132 | F5F180132012 | BRC-BKG-02A-0-0.5 | Soil | Thorium 232 | 0.86 | 1.8 | X | 1 | pCi/g |
| F5F180132 | F5F180132013 | BRC-BKG-02A-4-6 | Soil | Thorium 232 | 1.1 | 1.45 | X | 1 | pCi/g |
| F5F180132 | F5F180132014 | BRC-BKG-02A-9-11 | Soil | Thorium 232 | 0.57 | 1.31 | X | 1 | pCi/g |
| F5F180132 | F5F180132015 | BRC-BKG-02B-0-0.5 | Soil | Thorium 232 | 0.86 | 1.87 | X | 1 | pCi/g |
| F5F180132 | F5F180132016 | BRC-BKG-02B-4-6 | Soil | Thorium 232 | 0.69 | 2.38 | X | 1 | pCi/g |

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-------------|-----------------|--------|-----------|---------|-------|
| F5F180132 | F5F180132017 | BRC-BKG-02B-9-11 | Soil | Thorium 232 | 0.96 | 1.92 | X | 1 | pCi/g |
| F5F180132 | F5F180132018 | BRC-BKG-02C-0-0.5 | Soil | Thorium 232 | 0.6 | 1.52 | X | 1 | pCi/g |
| F5F180132 | F5F180132019 | BRC-BKG-02C-4-6 | Soil | Thorium 232 | 0.87 | 1.4 | X | 1 | pCi/g |
| F5F180132 | F5F180132020 | BRC-BKG-02C-9-11 | Soil | Thorium 232 | 0.67 | 2.48 | X | 1 | pCi/g |
| F5F180132 | F5F180132021 | BRC-BKG-03A-0-0.5 | Soil | Thorium 232 | 1.2 | 2.26 | X | 1 | pCi/g |
| F5F180132 | F5F180132022 | BRC-BKG-03A-3-7 | Soil | Thorium 232 | 0.99 | 2.2 | X | 1 | pCi/g |
| F5F180132 | F5F180132023 | BRC-BCG-03A-3-7 | Soil | Thorium 232 | 0.94 | 2.1 | X | 1 | pCi/g |
| F5F180132 | F5F180132024 | BRC-BKG-03A-9-11 | Soil | Thorium 232 | 0.97 | 2.07 | X | 1 | pCi/g |
| F5F180132 | F5F180132025 | BRC-BKG-03B-0-0.5 | Soil | Thorium 232 | 0.85 | 1.69 | X | 1 | pCi/g |
| F5F180132 | F5F180132026 | BRC-BKG-03B-4-6 | Soil | Thorium 232 | 1.2 | 2.38 | X | 1 | pCi/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Thorium 232 | 1 | 1.84 | X | 1 | pCi/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Thorium 232 | 0.53 | 2.15 | X | 1 | pCi/g |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Thorium 232 | 0.75 | 1.84 | X | 1 | pCi/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Thorium 232 | 1.1 | 1.6 | X | 1 | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Thorium 232 | 0.83 | 1.18 | X | 1 | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Thorium 232 | 0.82 | 1.47 | X | 1 | pCi/g |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Thorium 232 | 0.96 | 2.08 | X | 1 | pCi/g |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Thorium 232 | 0.73 | 1.28 | X | 1 | pCi/g |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Thorium 232 | 0.73 | 1.43 | X | 1 | pCi/g |
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Thorium 232 | 1 | 1.68 | X | 1 | pCi/g |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Thorium 232 | 1.1 | 1.74 | X | 1 | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Thorium 232 | 0.9 | 1.23 | X | 1 | pCi/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Thorium 232 | 1.1 | 1.65 | X | 1 | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Thorium 232 | 0.74 | 1.09 | X | 1 | pCi/g |
| F5F210233 | F5F210233012 | BRC-BKG-12A-4-6 | Soil | Thorium 232 | 0.83 | 1.69 | X | 1 | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Thorium 232 | 0.71 | 1.56 | X | 1 | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12B-0-0.5 | Soil | Thorium 232 | 0.87 | 0.9 | X | 1 | pCi/g |
| F5F210233 | F5F210233015 | BRC-BKG-12B-4-6 | Soil | Thorium 232 | 0.72 | 1.57 | X | 1 | pCi/g |
| F5F210233 | F5F210233017 | BRC-BKG-05AR-0-0.5 | Soil | Thorium 232 | 0.77 | 1.5 | X | 1 | pCi/g |
| F5F210233 | F5F210233019 | BRC-BKG-05AR-4-6 | Soil | Thorium 232 | 1.1 | 1.46 | X | 1 | pCi/g |
| F5F210233 | F5F210233020 | BRC-BKG-05AR-9-11 | Soil | Thorium 232 | 0.59 | 2.43 | X | 1 | pCi/g |

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|-------------|-----------------|--------|-----------|---------|-------|
| F5F210233 | F5F210233021 | BRC-BKG-05BR-0-0.5 | Soil | Thorium 232 | 0.91 | 1.83 | X | 1 | pCi/g |
| F5F210233 | F5F210233022 | BRC-BKG-05BR-4-6 | Soil | Thorium 232 | 0.7 | 1.98 | X | 1 | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 228 | 140 | -10 U | X | 1 | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 230 | 71 | 0 U | X | 1 | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 232 | 70 | 30 U | X | 1 | pCi/g |
| F5F210233 | F5F210233023 | BRC-BKG-05BR-9-11 | Soil | Thorium 232 | 1.2 | 2.61 | X | 1 | pCi/g |
| F5F210233 | F5F210233024 | BRC-BKG-05CR-0-0.5 | Soil | Thorium 232 | 0.86 | 1.51 | X | 1 | pCi/g |
| F5F210233 | F5F210233025 | BRC-BKG-05CR-4-6 | Soil | Thorium 232 | 0.67 | 1.82 | X | 1 | pCi/g |
| F5F210233 | F5F210233026 | BRC-BKG-05CR-9-11 | Soil | Thorium 232 | 1.1 | 2.42 | X | 1 | pCi/g |
| F5F210233 | F5F210233028 | BRC-BKG-11C-0-0.5 | Soil | Thorium 232 | 1 | 2.16 | X | 1 | pCi/g |
| F5F210233 | F5F210233030 | BRC-BKG-11C-9-11 | Soil | Thorium 232 | 0.98 | 1.26 | X | 1 | pCi/g |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Thorium 232 | 0.6 | 2.11 | X | 1 | pCi/g |
| F5F210233 | F5F210233032 | BRC-BKG-11B-4-6 | Soil | Thorium 232 | 0.83 | 1.66 | X | 1 | pCi/g |
| F5F210233 | F5F210233033 | BRC-BKG-11B-9-11 | Soil | Thorium 232 | 0.62 | 1.73 | X | 1 | pCi/g |

Notes:

- mg/kg Milligram per kilogram
- MDC Minimum detectable concentration
- pCi/g PicoCurie per gram
- RL Reporting limit
- SDG Sample delivery group
- SQL Sample quantitation limit
- U Undetected

¹ The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 14
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

| SDG | Lab ID | Sample ID | Matrix | Analyte | RL ¹ | Result ² | Qualifier | Comment | Unit |
|-----------|--------------|--------------------|--------|------------|-----------------|---------------------|-----------|---------|-------|
| F5F210233 | F5F210233007 | BRC-BKG-01B-9-11 | Soil | Radium 228 | 0.511 | 2.19 ±0.25 | R | e | pCi/g |
| F5F210233 | F5F210233009 | BRC-BKG-01C-0-0.5 | Soil | Radium 228 | 0.574 | 1.86 ±0.24 J | R | k, e | pCi/g |
| F5F210233 | F5F210233008 | BRC-BKG-01C-4-6 | Soil | Radium 228 | 0.702 | 2.19 ±0.28 | R | e | pCi/g |
| F5F210233 | F5F210233010 | BRC-BKG-01C-9-11 | Soil | Radium 228 | 0.78 | 1.94 ±0.28 J | R | k, e | pCi/g |
| F5F180132 | F5F180132027 | BRC-BKG-03B-9-11 | Soil | Radium 228 | 0.737 | 4.15 ±0.38 | R | e | pCi/g |
| F5F180132 | F5F180132028 | BRC-BKG-03C-0-0.5 | Soil | Radium 228 | 0.656 | 4.67 ±0.39 | R | e | pCi/g |
| F5F180132 | F5F180132029 | BRC-BKG-03C-4-6 | Soil | Radium 228 | 0.999 | 6.42 ±0.55 | R | e | pCi/g |
| F5F180132 | F5F180132030 | BRC-BKG-03C-9-11 | Soil | Radium 228 | 0.654 | 3.1 ±0.3 | R | e | pCi/g |
| F5F160308 | F5F160308001 | BRC-BKG-04B-4-6 | Soil | Uranium | 0.038 | 7.6 | R | j | mg/kg |
| F5F160308 | F5F160308006 | BRC-BKG-04C-0-0.5 | Soil | Radium 228 | 0.764 | 1.6 ±0.24 J | R | k, e | pCi/g |
| F5F160308 | F5F160308010 | BRC-BKG-04C1-0-0.5 | Soil | pH (solid) | | 8.7 | R | h | none |
| F5F210233 | F5F210233004 | BRC-BKG-11A-0-0.5 | Soil | Radium 228 | 0.821 | 3.2 ±0.35 | R | e | pCi/g |
| F5F210233 | F5F210233005 | BRC-BKG-11A-4-6 | Soil | Radium 228 | 0.86 | 2.12 ±0.29 | R | e | pCi/g |
| F5F210233 | F5F210233006 | BRC-BKG-11A-9-11 | Soil | Radium 228 | 0.644 | 2.21 ±0.28 | R | e | pCi/g |
| F5F210233 | F5F210233031 | BRC-BKG-11B-0-0.5 | Soil | Radium 228 | 0.75 | 2.51 ±0.29 | R | e | pCi/g |
| F5F210233 | F5F210233029 | BRC-BKG-11C-4-6 | Soil | Radium 228 | 0.911 | 2.37 ±0.31 | R | e | pCi/g |
| F5F210233 | F5F210233011 | BRC-BKG-12A-0-0.5 | Soil | Radium 228 | 0.6 | 1.8 ±0.24 J | R | k, e | pCi/g |
| F5F210233 | F5F210233013 | BRC-BKG-12A-9-11 | Soil | Radium 228 | 0.666 | 1.71 ±0.25 J | R | k, e | pCi/g |
| F5F210233 | F5F210233016 | BRC-BKG-12B-9-11 | Soil | Radium 228 | 0.67 | 1.52 ±0.24 J | R | k, e | pCi/g |
| F5F210233 | F5F210233001 | BRC-BKG-12C-0-0.5 | Soil | Radium 228 | 0.8 | 3.76 ±0.36 | R | e | pCi/g |
| F5F210233 | F5F210233002 | BRC-BKG-12C-4-6 | Soil | Radium 228 | 0.731 | 2.37 ±0.28 | R | e | pCi/g |
| F5F210233 | F5F210233003 | BRC-BKG-12C-9-11 | Soil | Radium 228 | 0.825 | 3.13 ±0.34 | R | e | pCi/g |

Notes:

- + Result is possibly biased high
- Result is possibly biased low
- e Qualified due to matrix spike or laboratory control sample issues
- h Qualified because holding time was exceeded
- k Qualified because result is >MDC, but less than the required reporting limit

TABLE 14 (CONTINUED)
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

j Qualified due to other stable chemistry issues
J Result is estimated
MDC Minimum detectable concentration
mg/kg Milligram per kilogram
pCi/g PicoCurie per gram
R Result is rejected and unusable
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit

- 1 The RL represents the MDC for radionuclides and SQL for stable chemistries.
 - 2 The radionuclide result includes the 2-sigma error.
-