FINAL RADIOLOGICAL BACKGROUND STUDY REPORT
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

EPA Contract No.: EP-S3-07-05
Work Assignment Number: 021TATA09QL

Prepared for:

U.S. Environmental Protection Agency Region 9
75 Hawthorne Street
San Francisco, California 94105

October 2011

HGL
HydroGeoLogic, Inc

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LIST OF ACRONYMS AND ABBREVIATIONS

ANOVA	analysis of variance
AOC	Administrative Order on Consent
APTF	Advanced Propulsion Test Facility
ATSDR	Agency for Toxic Substances and Disease Registry
bgs	below ground surface
Boeing	The Boeing Company
BTV	background threshold value
CC	confidence coefficient
CFR	Code of Federal Regulations
COC	chain of custody
COSCA	Conejo Open Space Conservation Agency
CSU	Combined Standard Uncertainty
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
DPT	direct-push technology
DTL	distance test location
DTSC	Department of Toxic Substances Control
EDD	electronic data deliverable
EPA	U.S. Environmental Protection Agency
ETEC	Energy Technology Engineering Center
FSP	Field Sampling Plan
ft	feet
GPS	global positioning system
HGL	HydroGeoLogic, Inc.
LQAP	Laboratory Quality Assurance Plan
MARLAP	Multi-Agency Radiological Laboratory Analytical Protocols Manual
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDC	minimum detectable concentration
MQO	method quality objective
MRCA	Mountains Recreation and Conservation Authority
MS	matrix spike
MSD	matrix spike duplicate
NASA	National Aeronautics and Space Administration
ND	nondetect
%	percent

pCi/g	picocuries per gram
Pace	Pace Analytical Services, Inc.
PRG	preliminary remediation goal
PVC	polyvinyl chloride
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RBRA	radiological background reference area
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SSFL	Santa Susana Field Laboratory
TPU	total propagated uncertainty
UPL95	95% Upper Prediction Limit
USCS	Unified Soil Classification System
USL95	95% Upper Simultaneous Limit
UTL95-95	95%-95% Upper Tolerance Limit
Z_{DER}	duplicate error ratios

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EXECUTIVE SUMMARY

The objective of the Santa Susana Field Laboratory (SSFL) Radiological Background Study is to determine background radionuclide concentrations within surface and subsurface soils overlying the two geologic formations that are present at the SSFL: the Chatsworth and Santa Susana formations. Analytical results from these soil samples were used to estimate background threshold values (BTV) that will represent local unimpacted areas similar to the SSFL.

Background threshold values (BTV) were estimated based on established background data collected from unimpacted background (reference) locations approximately 3 to 6 miles outside the SSFL property boundaries. The analytical data from the radiological background reference areas (RBRA) have been determined to be an established background dataset by:

- Conducting exhaustive research on the RBRAs to ensure that they were unimpacted areas and in the correct geologic formation, including site visits, aerial photograph interpretation, and historical research;
- Removing statistical outliers from the dataset; and
- Comparing the RBRA analytical data to the distance test location (DTL) data and confirming that the RBRA locations have not been impacted by any activities at the SSFL.

Sampling at the DTLs was designed to determine whether surface soils at the RBRAs have been impacted by releases from SSFL. To determine if the RBRAs were representative of unimpacted background soils, the analytical data from the RBRAs were compared to the analytical data from the DTLs. This comparison revealed that the analytical data from the RBRAs were comparable to the analytical data from the DTLs; therefore, the RBRAs are considered unimpacted background locations.

Once it was determined that the RBRAs represent unimpacted background locations, BTVs were calculated using analytical data collected from all the RBRAs. Statistical evaluations were completed for each radionuclide and BTVs were calculated for 64 different radionuclides. BTVs were estimated using maximum nondetect values for radionuclides with fewer than five detections. Four different statistical limits were evaluated as potential statistics to determine BTVs for radionuclides exhibiting greater than five detections. Based on the analytical results and the uniqueness of the on-site investigation, it was determined that the 95% Upper Simultaneous Limit (USL95) was the best statistic to estimate BTVs. The statistics limits evaluated are described in detail in Section 8 of this report.

Six individual datasets were evaluated for each radionuclide: surface and subsurface soils from the Lang Ranch RBRA (Chatsworth Formation); surface and subsurface soils from the Rocky Peak RBRA (Chatsworth Formation); and surface and subsurface soils from the Bridle Path RBRA (Santa Susana Formation).

For each radionuclide, each of these datasets was statistically compared to each other to determine if they were similar enough to be merged. After these comparisons, the radionuclide BTV calculations fell into five main categories: radionuclides with one BTV for all results; radionuclides with surface soil and subsurface soil BTVs; radionuclides with BTVs based on geologic formations; radionuclides with BTVs based on RBRAs; and radionuclides with BTVs based on individual datasets.

The BTVs estimates calculated in this SSFL Background Study Report will be used to assist the State of California Department of Toxic Substances Control (DTSC) in making cleanup decisions for the SSFL.

At the time this study was planned, California Law (Article 5.5 in Chapter 6.8 of Division 20 of the Health and Safety Code [SB 990]) dictated that that radiological contamination at the SSFL should ultimately be remediated to U.S. Environmental Protection Agency's (EPA's) agricultural preliminary remediation goals (PRG). Since that time, the DTSC and the Department of Energy (DOE) signed the Administrative Order on Consent (AOC) on December 6, 2010, which requires cleanup of radioactive contaminants to local background concentrations in SSFL Area IV and the Northern Buffer Zone.

The AOC states that EPA will determine local background levels through this SSFL Background Study. The BTV estimates calculated in this report will be used to determine Clean-Up Values for the Look-Up Table as described in the AOC. A Look-Up Table of the radiological cleanup levels will be developed by DTSC in consultation with EPA.

Although the Look-Up Table values will be based on the BTVs, they also will incorporate management decisions to facilitate cleanup of the SSFL. Some of these management decisions are introduced in Section 9 of this report.

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1.0 INTRODUCTION

HydroGeoLogic, Inc. (HGL) has been tasked by the U.S. Environmental Protection Agency (EPA) to conduct an extensive radiological characterization study of the Santa Susana Field Laboratory (SSFL) at Area IV and the Northern Buffer Zone located in Ventura County, California (Figure 1.1). As part of this study, HGL completed a radiological background study to determine background radionuclide concentrations within surface and subsurface soils overlying the two geologic formations that are present at the SSFL: the Chatsworth and Santa Susana formations. Samples also were collected from distance test locations (DTL) located more than 10 miles from the SSFL site to confirm that the locations selected for background sampling had not been impacted by the SSFL. The potential uses of the data generated from the background study include the following:

- Determine the extent of soil contamination at the SSFL;
- Assist the California Department of Toxic Substances Control (DTSC) in establishing appropriate cleanup levels; and
- Establish a reference dataset for site characterization surveys and site closure surveys (final status surveys) in accordance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) guidance.

For the primary background study, surface and subsurface soil samples were collected at three radiological background reference areas (RBRA) located 3 to 6 miles outside the SSFL property boundary (Figure 1.2). Two of the areas overlie the Chatsworth Formation: the Lang Ranch Location, located within China Flat on National Park Service land, and the Rocky Peak Location. The third area is the Bridle Path Location, which overlies the Santa Susana Formation. RBRAs were selected and approved by EPA, with the concurrence of the project stakeholders participating in the Background Study Technical Group, which consists of community members, the Department of Energy (DOE), The Boeing Company (Boeing), the National Aeronautics and Space Administration (NASA), the California DTSC and contractors. Figures 1.3, 1.4, and 1.5 illustrate the sampling grids at the RBRA sampling locations.

During meetings of the Background Study Technical Group, community members expressed concern that the RBRAs may be too close to the SSFL and may have been impacted by atmospheric releases of radionuclides from the SSFL. It was postulated that the deposition of radionuclides from historical releases may have artificially increased radionuclide concentrations in surface soils at the proposed RBRAs; thus, the radionuclide concentrations in surface soils would not reflect background conditions. To address this concern, soil samples were collected at DTLs and analyzed for a select set of radionuclides that are typically associated with historical atmospheric releases.

Sampling at the DTLs was designed to determine whether surface soils at the RBRAs have been impacted by releases from SSFL. To determine if the RBRAs are representative of unimpacted background soils, the analytical data from the RBRAs were compared to the analytical data from the DTLs. If the analytical data from the RBRA are comparable to the analytical data from the DTLs, then the RBRAs can be considered unimpacted background locations.

For the DTL investigation, surface soil samples were collected in areas that were located greater than 10 miles from the SSFL. Surface soil samples were collected at 24 of the DTLs identified on Figure 1.6 (6 samples were collected in each quadrant). Four of these 24 samples were collected as contingency samples in the event that a DTL sample was lost or used up by the laboratory. The contingency samples were collected, but not analyzed by the laboratory. The other 20 samples were analyzed for a targeted group of radionuclides that could likely be found in atmospheric releases from SSFL. Surface soil samples also were collected at the three RBRAs and analyzed for the same targeted list of radionuclides. A statistical analysis was conducted to determine whether the radionuclide concentrations in surface soil at the individual RBRAs are higher than the radionuclide concentrations at the DTLs.

1.1 SCOPE OF WORK

In accordance with the approved Work Assignment scope, HGL completed the following activities in order to accomplish the objectives described above:

- Conducted a gross gamma scanning survey of surface soils at the RBRAs.
- Conducted a screening-level gamma scanning survey of surface soils at the DTLs to identify potential anomalies.
- Collected surface soil samples for laboratory analysis at both the DTLs and RBRAs.
- Collected subsurface soil samples for laboratory analysis at the RBRAs.
- Conducted borehole gamma scanning of subsurface soils at the RBRAs.
- Analyzed surface and subsurface soil samples collected at the RBRAs for a large suite of radionuclides.
- Analyzed surface soil samples collected at the DTLs for a select list of radionuclides.
- Validated the data to determine the usability of the data.
- Conducted a statistical evaluation of radionuclide concentrations in surface soil samples collected from the DTLs and the RBRAs to determine whether the RBRAs have been impacted by releases from the SSFL.
- Conducted a statistical analysis for surface and subsurface soil data collected at the RBRAs to determine a background threshold value (BTV) for each radionuclide.
- Prepared this report, which discusses the field activities, analytical results, data validation, statistical analysis, determination of BTVs, and preliminary recommendations for the Look-up Table associated with the Administrative Order on Consent (AOC).

2.0 SITE DESCRIPTIONS AND SITE SELECTION CRITERIA

This section describes the Santa Susana Field Laboratory (SSFL), geologic formations sampled during the study, radiological background reference area (RBRA) locations, and distance test locations (DTL). This section also describes the criteria used to select RBRA locations and DTLs.

2.1 SANTA SUSANA FIELD LABORATORY SITE LOCATION AND DESCRIPTION

The SSFL is located in southeastern Ventura County, California, near Simi Valley. The 2,850-acre site is approximately 30 miles northwest of downtown Los Angeles between the Simi and San Fernando Valleys in the Simi Hills. Residential areas are near the southern, northern, and eastern boundaries of the site.

The SSFL is separated into four administrative areas. The Boeing Company (Boeing) owns all of Area I, except for 42 acres that are owned by the National Aeronautics and Space Administration (NASA). Area II is owned by NASA and operated by Boeing; and Boeing owns and operates Areas III and IV. Areas I, II, and III were used by predecessors of Boeing, NASA, and the Department of Defense for rocket engine and laser testing. Chemical contamination resulting from those activities is the responsibility of Boeing and NASA and is not part of the scope of this project.

Until its closure, DOE was responsible for operation of the Energy Technology Engineering Center (ETEC) located in Area IV. As ETEC did not have specific boundaries within Area IV, it represented a group of facilities owned by DOE and used for nuclear research and other experimental activities. From the mid-1950s until the mid-1990s, DOE and its predecessor agencies were engaged in or sponsored nuclear operations including the development, fabrication, disassembly, and examination of nuclear reactors, reactor fuel, and other radioactive materials. Associated experiments included large-scale sodium metal testing for fast breeder reactor components. Nuclear operations at ETEC included 10 nuclear research reactors, seven critical facilities, the Hot Laboratory, the Nuclear Materials Development Facility, the Radioactive Materials Handling Facility, and various test and radioactive material storage areas.

All nuclear research in Area IV was terminated in 1988, when DOE shifted its focus at SSFL from research to decontamination and decommissioning activities. Decontamination and decommissioning of the sodium test facilities started in 1996, when DOE determined that the entire ETEC facility was surplus to its mission and began formal cleanup and closure of its facilities in Area IV in preparation for returning the property to Boeing.

2.2 SITE GEOLOGY

The SSFL is located within the Transverse Ranges physiographic province, approximately 30 miles north of downtown Los Angeles (Baily and Jahns, 1954). Two geologic formations underlie Area IV within the SSFL: the Cretaceous Chatsworth Formation and the Tertiary Santa Susana Formation. The Chatsworth Formation underlies approximately 80% of Area IV, while the Santa Susana Formation underlies approximately 20% of Area IV. However, the western end

and northern edge of Area IV may receive drainage from the Santa Susana Formation. The following descriptions are derived from the Preliminary Geologic Map of the Los Angeles 30 feet by 60 feet Quadrangle, Southern California (Yerkes and Campbell, 2005).

2.2.1 Chatsworth Formation

The Chatsworth Formation consists of three unnamed members. The members were deposited by turbidity currents in the deep ocean at depths ranging from 4,000 to 5,000 feet (ft). Turbidity currents cause massive submarine landslides from the continental shelf into submarine canyons which are generally more than a half-mile wide and greater than ten miles in length. During periods without turbidity currents, silt and clay particles from runoff filtered to the ocean floor and formed the siltstone strata found in the formation.

Deposited in the late Cretaceous, the Chatsworth Formation is in excess of 6,000 ft thick. The uppermost member is a thick strata of light gray to brown sandstone, which is hard, coherent, arkosic, micaceous, primarily medium grained separated by thin partings of siltstone. The middle member is a gray conglomerate of cobbles of rounded, polished clasts of quartzite, porphyry and granitic rocks in hard sandstone matrix. The lower member is gray clay shale, crumbly with ellipsoidal fracture where weathered, and may include sandstone strata.

2.2.2 Santa Susana Formation

The Burro Flats Fault places the Chatsworth Formation in structural contact with the Santa Susana Formation in the Area IV Study Area. The Santa Susana Formation underlies the southwestern most portion of the Area IV Study and consists of four members. The unnamed uppermost layer of the Santa Susana Formation consists of gray micaceous claystone and siltstone with a limited number of thin sandstone beds. Below the uppermost layer lies a second unnamed layer that is made up of tan coherent fine grained sandstone, which locally contains thin shell-beds and calcareous concretions. Underlying this layer is the Las Virgenes Sandstone Member, which is composed of tan semi-friable bedded sandstone and is locally pebbly. The oldest member is the Simi Conglomerate Member. This member contains gray to brown cobble conglomerate with smooth cobbles of quartzite, metavolcanic and granitic rocks in sandstone matrix that locally includes thin lenses of red clay. The Santa Susana Formation was also formed by turbidity currents.

2.3 AREA AND LOCATION SELECTION CRITERIA

An extensive evaluation was conducted to identify suitable RBRAs and DTLs. This process focused on finding sampling locations that were within undeveloped, public parklands and open spaces. Initially, the evaluation focused on identifying sites within the Santa Susana or Chatsworth formations that could be used for RBRAs. The Background Study Technical Group, consisting of community members, U.S. Environmental Protection Agency (EPA), DOE, Boeing, NASA, California Department of Toxic Substances Control (DTSC) and contractors, participated in this evaluation process and the selection of RBRAs. Subsequent efforts focused on the identification of DTLs located at least 10 miles from the SSFL. The Santa Susana and Chatsworth formations do not extend more than 6 miles from the SSFL. Consequently, the DTLs could not be located in areas that are underlain by these geologic formations. There is

some uncertainty in the native concentrations of naturally-occurring radionuclides because geological formations also have variable sub-formation strata (shale, versus siltstone, versus conglomerate), and the concentrations may vary between them.

The identification of both RBRAs and DTLs involved the following activities:

- Development of site selection criteria;
- Evaluation of historical studies, maps, and aerial photos;
- Selection of areas for more extensive evaluation;
- Extensive site reconnaissance; and
- Selection of optimal sites based on the selection criteria.

Members of the Background Study Technical Group participated in several field reconnaissance trips. Most members of the Background Study Technical Group participated in the site reconnaissance activities associated with the RBRAs. A smaller group consisting of EPA, HydroGeoLogic, Inc. (HGL) staff, and several community members conducted the site reconnaissance for the DTLs, and ultimately identified the DTLs used in this study.

The following subsections describe the selection criteria for the RBRAs and DTLs.

2.3.1 Radiological Background Reference Areas

The RBRAs selected for sampling were evaluated based on the following criteria, which were developed by the Background Study Technical Group:

- Distance and direction from the SSFL;
- Site elevation;
- Size of the area;
- Geologic formation underlying the site (Chatsworth or Santa Susana formation);
- Property access to the location could be obtained;
- The area could be easily cleared for grid spacing, surveying, and sampling;
- Necessary equipment could be mobilized to the site (for example: the site was physically accessible);
- The area is minimally shielded by the surrounding mountains;
- The area is minimally shielded by heavy vegetation;
- No indication of human activity in the area;
- There is a sufficient depth of soil to allow for subsurface soil sampling;
- Minimal evidence of animal disturbance;
- Minimal evidence of erosion in the area; and

- Minimal presence of protected animals and/or plants in the area.

After an extensive site identification and evaluation process, three RBRAs were selected for data collection. Two of these areas overlie the Chatsworth Formation and one area overlies the Santa Susana Formation. The locations of the RBRAs are illustrated on Figure 1.2.

2.3.2 Distance Test Locations

As with the RBRAs, undeveloped public parklands and opens spaces were evaluated for the purpose of identifying DTLs. Community members provided considerable input into the parklands and open spaces that were ultimately considered for further evaluation. The following criteria were used to identify and select the DTLs:

- Location is greater than 10 miles from the SSFL;
- Locations are evenly distributed in all directions surrounding the SSFL, with 10 locations in each compass quadrant – northeast, southeast, southwest and northwest;
- No obvious industrial facilities with radioactive materials near any of the locations;
- Long-term average precipitation for each location similar to that of the SSFL;
- Property access for each location could be obtained;
- Location was physically accessible;
- No indication of human activity;
- Minimal evidence of animal disturbance;
- Minimal evidence of erosion; and
- Minimal shielding by heavy vegetation.

Using these evaluation criteria, EPA, community members, and other stakeholders selected at least 10 DTLs in each compass quadrant. A random number generator was used to identify six of the DTLs in each quadrant for surface soil sampling. The locations of these DTLs are illustrated on Figure 1.6.

2.4 INDIVIDUAL RADIOLOGICAL BACKGROUND REFERENCE AREA SITE SUMMARIES

2.4.1 Lang Ranch

The Lang Ranch RBRA (Figure 1.3) was selected for collection of soil data because this location is in the same geologic formation as the SSFL (Chatsworth Formation) and it allowed for determination of radiological concentrations in natural, undisturbed soils that have not been impacted by releases from the SSFL. The location is a 1-acre area located on National Park Service land. The Lang Ranch RBRA vegetation is composed primarily of native grasses with a few small bushes. A narrow trail bisects the 1-acre area but no sample locations were located on the trail.

2.4.2 Rocky Peak

The Rocky Peak RBRA (Figure 1.4) was selected for collection of soil data because this location is in the same geologic formation as the SSFL (Chatsworth Formation) and it allowed for determination of radiological concentrations in natural, undisturbed soils that have not been impacted by releases from the SSFL. The location is a 1-acre area located on land managed by the State of California Mountains Recreation and Conservation Authority (MRCA). The Rocky Peak vegetation is sparse and composed mostly of low lying bushes and a few small trees. A small ravine is located just east of the RBRA.

2.4.3 Bridle Path

The Bridle Path RBRA (Figure 1.5) was selected for collection of soil data because this location is in the same geologic formation as the SSFL (Santa Susana Formation) and it allowed for determination of radiological concentrations in natural, undisturbed soils that have not been impacted by releases from the SSFL. The location is a 1-acre area located on land managed by the City of Thousand Oaks and the Conejo Open Space Conservation Agency (COSCA). The Bridle Path RBRA vegetation is mostly composed of native grasses with a few small bushes.

2.5 DISTANCE TEST LOCATION SITE SUMMARIES

As previously mentioned, surface soil samples were collected in areas that are located greater than 10 miles from the SSFL. These locations are referred to as DTLs. Forty DTLs were identified as potential sampling locations (see Table 2.1) with 10 DTLs per compass quadrant surrounding the SSFL: 10 locations in the northeast quadrant, 10 locations in the northwest quadrant, 10 locations in the southeast quadrant, and 10 locations in the southwest quadrant. A random number generator was used to identify six of the 10 DTLs in each quadrant for surface soil sampling. EPA staff and stakeholders monitored the process used to randomly identify the sampling locations. In the event that one of the locations was not suitable, an alternative location within the quadrant was selected using the random number generator.

One surface soil sample was collected at each of the six locations in each quadrant of the DTLs after the gamma survey was completed and measurements indicated no gamma radiation anomalies. These sample locations are shown in Figure 1.6. The sixth sample collected was archived. Therefore, a total of 20 surface soil samples collected from the DTLs were submitted to the laboratory for analysis and four samples were archived.

2.5.1 Southwest Quadrant

All six DTL sample locations in the southwest quadrant were located with the Santa Monica Mountains National Recreation Area (Figure 2.1), which is federal land managed by the National Park Service. The Santa Monica Mountains National Recreation Area is a terrestrial Mediterranean-type ecosystem characterized by evergreen or drought deciduous shrublands.

2.5.2 Northwest Quadrant

Of the six sample locations in the northwest quadrant, three of the sample locations were in the Los Padres National Forest and three of the sample locations were in the Lake Piru Recreation Area (Figure 2.2).

The Los Padres National Forest is federal land managed by the National Forest Service. That part of the Los Padres National Forest where samples were collected was in chaparral and semi-desert areas.

The Lake Piru Recreation Area encompasses and surrounds Lake Piru. This recreation area is managed by Recreation Resource Management under a concession contract with the United Water Conservation District.

2.5.3 Northeast Quadrant

Of the six sample locations in the northeast quadrant, four of the sample locations were on property managed by the Santa Monica Mountains Conservancy and two of the sample locations were on property managed by the Santa Clarita Watershed Recreation and Conservation Authority. All of the property is owned by the State of California (Figure 2.3).

The Santa Monica Mountains Conservancy manages land within the East and Rice Canyon Park and Elsmere Canyon. Four of the northeast quadrant DTL locations were located within these areas.

The Santa Clarita Watershed Recreation and Conservation Authority manage land within the Whitney Canyon Park. Two of the northeast quadrant DTL locations were located with the Whitney Canyon Park.

2.5.4 Southeast Quadrant

All six DTL sample locations in the southeast quadrant were located with the Topanga State Park (Figure 2.4). The property is owned by the State of California. Vegetation is dominated by mature chaparral, but significant stands of oak woodland can also be found. Coastal sage scrub, grassland savannah, bay laurel woodland, walnut woodland, and a variety of riparian habitats can also be found within the park.

3.0 SAMPLING METHODOLOGY

This section discusses the sampling methodology used at both the distance test locations (DTL) and the radiological background reference areas (RBRA). This sampling methodology is also detailed in the Final Sampling and Analysis Plan (SAP), submitted to the U.S. Environmental Protection Agency (EPA) in August 2009 (HydroGeoLogic, Inc. [HGL], 2009). The sampling methodology described below follows the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) guidance where applicable.

Some property owners delayed access to their respective properties due to concerns that the field activities might negatively impact their property. Therefore, in consultation with EPA, it was decided to conduct the sampling activities in two mobilizations. The first mobilization was conducted from August 25, 2009 to September 3, 2009. During this mobilization all the DTL locations were surveyed and sampled. In addition, the Lang Ranch RBRA and the Rocky Peak RBRA were surveyed and sampled.

The second mobilization was conducted from November 17, 2009 to November 20, 2009. During this mobilization the Bridle Path RBRA was surveyed and sampled.

3.1 SITE SURVEY AND IDENTIFICATION OF SAMPLE LOCATIONS

All relevant permits and permissions were obtained prior to the commencement of intrusive activities at the sites.

Each DTL location was determined by analysis of aerial photographs and a hand-held global positioning system (GPS) unit.

Each RBRA location was determined by analysis of aerial photographs and a hand-held GPS. Once the general location of the RBRA was located, a 1-acre area was measured and staked by HGL. After the measurement was completed, EPA and stakeholders examined the area and approved or modified the RBRA location based on any topographic or anthropomorphic issues (such as, trails, ravines, etc.).

Once the 1-acre RBRA area was approved, specific sample locations were positioned in a grid pattern in each RBRA in accordance with a Class 1 MARSSIM survey unit. The start locations of the grids were randomly selected using the random number generator at www.random.org. The random numbers were generated on site with oversight by both EPA and stakeholders. The grid nodes were based on a sample density of 50 samples per 1-acre area. A 1-acre area is approximately 210 feet (ft) by 210 ft square. The grids were triangular in shape to maximize statistical coverage with a grid length of 31.7 ft as determined in accordance with MARSSIM.

Due to on-site conditions, some grid sampling locations were moved in the field. At the Lang Ranch RBRA, two soil sampling locations were moved less than 5 ft to avoid a narrow trail in the area. At the Rocky Peak RBRA, one soil sample was moved to avoid a potential anthropologic disturbance in the area. In addition, three sampling locations were randomly added to the grid in order to meet project requirements. No grid sampling locations were added

or moved at the Bridle Path RBRA. All field sample location movements were discussed and approved by all stakeholders present.

3.2 GAMMA RADIATION SCANNING SURVEY

A Gamma Radiation Scanning Survey was performed at the six DTLs in each quadrant in accordance with HGL standard operating procedure (SOP) 35, which is provided in the SAP (HGL, 2009). The survey was conducted over an approximately 50- by 50-ft area surrounding each DTL sample location to determine whether there were any gamma radiation anomalies. An anomaly is defined as a location with an increase or decrease in gamma radiation count rate compared to the surrounding area as determined by the professional judgment of the surveyor. In general, if the surveyor observed measurements that did not appear consistent throughout the DTL or RBRA, then the location would be deemed anomalous. If an anomaly was detected at a DTL, the sample location was rejected and another DTL location was randomly selected.

A Gamma Radiation Scanning Survey was performed at all three RBRAs in accordance with HGL SOP 35, which is detailed in the SAP (HGL, 2009). After each RBRA area was measured and marked, HGL surveyed the entire 1-acre area. Measurements were reviewed in the field to determine the presence of any anomalies.

A collimated detector was not used to conduct the gamma radiation surveys at the DTLs and RBRAs; this was a deviation to SOP 35. A collimated detector has a smaller spatial range of detection capability, where as an uncollimated detector has a larger spatial range. An uncollimated detector was selected to reduce detector weight and improve surveyor ergonomics. Therefore, this deviation does not affect the data quality or the determination of anomalies at either the DTLs or RBRAs.

3.3 SURFACE SOIL SAMPLING

One surface soil sample was collected at each of the six locations in each quadrant of the DTLs after the gamma survey was completed and measurements indicated no anomalies. Surface samples were collected in accordance with SOP 16, which is presented in the SAP (HGL, 2009). All six samples from each quadrant were delivered to the laboratory, but the sixth sample collected was archived as a backup sample. Therefore, a total of 20 surface soil samples collected from the DTLs were submitted to the laboratory for analysis and four samples were archived. For quality assurance (QA)/quality control (QC) purposes, two field duplicates and one matrix spike (MS)/matrix spike duplicate (MSD) was collected and delivered to the laboratory for analyses.

A total of 109 surface soil samples were collected from the RBRA areas. Fifty-four surface soil samples were collected from the one area overlying the Santa Susana Formation (Bridle Path RBRA) and 55 samples were collected from the two areas overlying the Chatsworth Formation (27 samples at the Lang Ranch RBRA and 28 samples at the Rocky Peak RBRA). For QA/QC purposes, 12 field duplicates and 7 MS/MSDs were collected: 6 field duplicates and 3 MS/MDSs from the Santa Susana Formation, and 3 field duplicates and 2 MS/MSDs from each of the Chatsworth Formation RBRAs. In addition, two split soil samples were collected from both the Santa Susana Formation and the Chatsworth Formation for the EPA laboratory in Las Vegas,

Nevada. These samples were collected in the field, prepared at the laboratory, and sent to the EPA laboratory in Las Vegas.

The surface soil samples were collected in accordance with the Surface and Shallow Depth Soil Sampling SOP 16, which is presented in the SAP (HGL, 2009). The following steps were completed at each surface soil sampling location:

1. Cleared vegetation from the sampling location.
2. Used a stainless steel trowel or stainless steel shovel to dig a hole approximately 6 inches deep and 1-ft in diameter.
3. Examined surface soil in the area and logged in accordance with the Geologic Borehole Logging SOP 24 (HGL, 2009).
4. Soil was removed from the hole and placed in appropriate sample containers.
5. After the sample containers were filled, any excess soil was placed back into the hole and the hole was filled to grade with native soil from the surrounding area (At the Bridle Path RBRA site, native seeds were placed in the hole before it was covered at property owner's request).
6. Any vegetation removed during the sampling was returned to its original location.
7. The sampling location was recorded using a hand-held GPS unit.

The surface soil sample was placed directly into an appropriate sample container, labeled, sealed, and packaged in accordance with the SAP, and then shipped to the laboratory.

3.4 DIRECT-PUSH SUBSURFACE SOIL SAMPLING

Within each geologic formation, 20 subsurface soil samples were collected (total of 40 subsurface soil samples). Therefore, 10 subsurface soil samples were collected at each of the Chatsworth Formation RBRAs (Lang Ranch and Rocky Peak) and 20 subsurface soil samples were collected at the Santa Susana RBRA (Bridle Path). At each RBRA, the subsurface sampling locations were chosen randomly using the random number generator at www.random.org. Each surface soil sampling location at the RBRAs was used as a number for the random number generator program. Therefore, the subsurface sampling locations were co-located with the surface sampling locations.

At each subsurface sampling location, a subsurface soil sample was collected from a depth deeper than 3 ft below ground surface (bgs). At each subsurface sampling location an attempt was made to collect a subsurface soil sample from 3 ft to 10 ft bgs. However, bedrock was encountered at less than 10 ft bgs at some sampling locations. In these cases, soil samples were collected from 3 ft bgs to refusal. Soil was collected over the entire depth interval and composited into one homogeneous soil sample per location following the procedure detailed in the SAP (HGL, 2009).

At the Lang Ranch RBRA, subsurface soil sampling was conducted using direct-push technology (DPT). Subsurface sampling was conducted by a drilling contractor (Environmental Support

Technologies) with HGL oversight in accordance with Basic Geoprobe® Operations SOP 27 (HGL, 2009). Subsurface soils were continuously sampled using Geoprobe® Macrocore samplers that provide 1.5-inch diameter, 4-foot long soil cores contained in acetate sleeves.

The sampling procedure was as follows:

1. Drive the sample apparatus into the sampling material using the DPT rig.
2. Retract and disassemble the sample apparatus.
3. Remove the acetate sleeve.
4. Open the acetate sleeve with a cutting tool.
5. Lithologically characterize the soil using the Unified Soil Characterization System (USCS) as detailed in Geologic Borehole Logging SOP 24 (HGL, 2009).
6. Collect the sample using a clean utensil.
7. Place the sample into an appropriate container.

The subsurface soil sample was placed directly into an appropriate sample container, labeled, sealed, and packaged in accordance with the SAP, and then shipped to the laboratory.

3.5 HAND AUGER SUBSURFACE SOIL SAMPLING

The property owners at the Rocky Peak RBRA and the Bridle Path RBRA would not allow DPT sampling. Therefore, subsurface samples at these two RBRAs were collected using a hand auger to retrieve soil from 3 ft to 10 ft bgs. The hand auger subsurface soil sampling procedure was completed as follows:

1. Excavate soil to 3 ft bgs using a decontaminated hand auger, and then remove all the cuttings from the hole.
2. Lower the decontaminated hand auger to the bottom of the hole.
3. Mark the sample interval on the auger.
4. Advance the auger until it was flush with the interval mark at ground level.
5. Remove the auger from the bottom of the hole when the auger was advanced the total depth of the required sample.
6. Lithologically characterize the soil using the USCS as detailed in SOP 24 (HGL, 2009).
7. Transfer the subsurface soil sample immediately to an appropriate container.

The subsurface soil sample was placed directly into an appropriate sample container, labeled, sealed, packaged in accordance with the SAP, and then shipped to the laboratory.

3.6 BOREHOLE GAMMA SCANNING

After subsurface soil sampling activities were completed, a borehole gamma survey was conducted in each borehole as detailed in Borehole Gamma Logging SOP 36, which is presented

in the SAP (HGL, 2009). Once a borehole was completed using either a hand auger or a DPT rig, a Schedule 40 polyvinyl chloride (PVC) pipe was placed in the hole to prevent the loss of the detector in the event the hole collapsed. The largest detector that can fit into the PVC pipe was used to maximize detection sensitivity. The borehole gamma scanning was completed as follows:

1. Hold the detector 6 inches above the hole and take 1 minute static integrated measurement. Record the measurement in counts per minute.
2. Lower the detector slowly at a rate of approximately 1 inch per second while observing the count rate.
3. Stop the meter at each 6-inch interval and take 1 minute static integrated measurement in scaler mode.
4. Repeat measurement, stopping at each 6-inch interval until the bottom of the borehole is reached.
5. Record the measurements in the field logbook and on the boring log.

Each borehole was filled with native soil and/or high-solids bentonite grout chips after completion of activities at each location. Any vegetation removed during sampling was returned to its original location.

4.0 FIELD QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

4.1 GAMMA SCANNING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

Each radiological instrument was calibrated by the instrument rental company as documented on a certificate of calibration. Upon receipt, each instrument was inspected for damage, verified within the calibration dates, and verified it functioned properly.

Quality control (QC) limits were established by the field staff and then verified daily at the same location before field activities commenced. The QC limits were established by placing a 5.7 microcurie cesium-137 check source within 3.5 to 7 inches of each detector. A 1 minute cumulative count was collected and recorded. The same procedure was conducted without the presence of the check source to determine the background check count rate. Upper and lower QC limits were calculated for the source check and background check based on plus or minus 20 percent (%) of the respective count rates. Each day the detectors were verified in compliance with both the source check and background check QC limits. If a detector failed either QC limit check three times then it was removed from service. This occurrence was not observed throughout the field activities.

4.2 SOIL SAMPLING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

All soil samples were collected in accordance with the Field Sampling Plan (FSP) which is Attachment 1 of the Sampling and Analysis Plan (SAP) (HydroGeoLogic, Inc. [HGL], 2009). Sampling methods included U.S. Environmental Protection Agency (EPA) and HGL standard operating procedures (SOP) to ensure samples were collected in a standardized method so they represent actual site conditions. All field activities were conducted in accordance with the protocols detailed in the HGL SOPs, which are detailed in the SAP (HGL, 2009).

4.2.1 Sampling Equipment and Preparation

The sampling equipment that was used for this project included:

- Surface soil samples were collected using a stainless steel shovel or trowel.
- Subsurface soil samples were collected with a direct-push technology (DPT) rig or hand auger.

4.2.2 Sample Containers

All sample containers were pre-cleaned and traceable to the facility that performed the cleaning. Sampling containers were not cleaned or rinsed in the field.

4.2.3 Sample Collection for Off-Site Analysis

All soil samples were shipped to Pace Analytical Services, Inc. (Pace) of Greensburg, Pennsylvania, via FedEx. To accommodate the field schedule, some samples were stored in a

secure, temperature and humidity controlled environment for a few days before being shipped to the laboratory.

4.2.4 Decontamination

Sampling equipment and other field items were decontaminated in accordance with any requirements specifically addressed in individual sampling SOPs and the general requirements of the Quality Assurance Project Plan (QAPP), which is Attachment 2 of the SAP (HGL, 2009).

- All soil sampling equipment (such as drilling equipment, shovels, and trowels) was thoroughly cleaned and decontaminated before starting field work each day and between soil sampling locations.
- Surface gamma scanning equipment was thoroughly cleaned and decontaminated at the beginning of each day and before initiating work at a new location.

Equipment rinsate blanks were collected each day by each field team. All soil sampling equipment used during that day was thoroughly cleaned and rinsed with deionized water. That deionized water rinse was then collected in an appropriate sample container, labeled, sealed, and packaged in accordance with the SAP, and then shipped to the laboratory.

4.2.5 Sample Handling and Custody Requirements

The following subsections describe the procedures that were used to ensure that the integrity of the samples was maintained.

The purpose and description of the sample label and the chain of custody (COC) record are discussed in the following subsections. All identification and tracking procedures for samples followed the QAPP (HGL, 2009).

4.2.5.1 Sample Labeling and Identification

An alphanumeric coding system uniquely identified each sample accepted during the field investigation.

Equipment blank(s), were be identified by an "EB" following a number indicating the date. If multiple equipment blanks were collected on the same day, each was distinguished by a suffix starting with "A", then "B", and so on. The parent sample associated with each field duplicate was noted in the field logbooks and was provided to the data validator, but the laboratory was not provided with the identity of the parent sample.

The location of each sample, as well as time and date of sample collections and requested analyses, was recorded on a field sheet completed for each sample.

4.2.5.2 Chain of Custody Requirements

Sample COC procedures followed the requirements set forth in the QAPP (HGL, 2009). The COC record was initiated with the acquisition of the samples and remained with the sample at all times. The COC included the name of the field personnel assuming responsibility for the

samples and documented transfer of sample custody. To simplify the COC record and eliminate sample custody questions, as few people as possible handled the samples during the investigation.

In addition to the COC record, custody seals were used to maintain the custody of samples during shipment. Custody seals are adhesive seals placed on items (such as sample shipping containers) in such a manner that if the sealed item is opened, the seal would be broken. The custody seal provide evidence that no sample tampering occurred between shipment of the samples and receipt of the samples by the laboratory.

The COC was completed for each accepted sample submitted to the laboratory by the field sampling team. The field sampling team relinquished custody to FedEx for shipment by noting the carrier name and the air bill number on the COC form. The COC was shipped to the laboratory with the samples, and a copy of the COC was maintained by HGL.

4.2.5.3 Sample Packaging and Shipping

Samples were packaged and shipped promptly after collection. Packaging, labeling, and shipping of hazardous materials are regulated by the U.S. Department of Transportation (DOT) under Code of Federal Regulations (CFR) Title 49, Part 172. Samples were handled, packed, and shipped in accordance with the QAPP (HGL, 2009), which includes applicable DOT requirements.

4.2.6 Field Logbook(s) and Records

4.2.6.1 Field Logbooks

Field logbook(s) were maintained by the field team in accordance with the SAP (HGL, 2009). The logbook is an accounting of the accomplishment of scheduled activities, and duly noted problems or deviations from the governing plans and observations relating to the field program. A copy of the project field logbook is provided in Appendix C.

4.2.6.2 Field Forms and Boring Logs

In addition to the field logbooks, field forms and boring logs were used to record sampling activities and measurements taken in the field. Surface soil sampling information and subsurface boring logs are included in Appendix D.

At the conclusion of site activities, the logbook and field forms were incorporated into the project file as part of HGL's document control procedures. Completed field sheets also were maintained in the project file.

5.0 GAMMA SCANNING RESULTS

Gamma radiation scanning surveys were conducted at 25 distance test locations (DTL) and three radiological background reference areas (RBRA) to determine if gamma radiation anomalies were present in the surface soil before collection of surface soil samples. The surveys were conducted with a Ludlum Model 2221 ratemeter and Ludlum Model 44-20 sodium iodide scintillation detector. In addition, gamma radiation surveys of 40 boreholes were conducted to determine the background gamma radiation levels in the subsurface soil at each RBRA. A Ludlum Model 2221 ratemeter with Ludlum Model 44-2 and Ludlum Model 44-62 sodium iodide scintillation detectors were used to collect the subsurface gamma radiation results.

The gamma radiation scanning surveys were conducted by moving the Model 44-20 detector approximately 6 inches above the surface soil at a scanning rate of approximately 18 to 24 inches per second. The instrument operator observed the count rate on the Model 2221 during the scan and recorded the approximate minimum, average, and maximum count rates. At each DTL an area of 50-foot (ft) by 50-ft was surveyed whereas 1 acre was scanned at each RBRA. For the downhole gamma survey a static 1 minute scaler measurement was collected in each borehole at 6 inch intervals from 6 inches above the borehole to the bottom with the Model 44-62 detector and, if the borehole diameter was large enough, also the Model 44-2 detector. Surface gamma radiation results for the DTLs and the RBRAs are summarized in Table 5.1. Results of the borehole gamma surveys for the Ludlum Model 2221 44-2 and the Ludlum Model 2221 44-62 are summarized in Table 5.2 and Table 5.3, respectively.

No gamma radiation anomalies were detected in the DTLs or the RBRAs except for location TP-16, a DTL, located within the Santa Monica Mountains. The count rate at the southern boundary of the TP-16 was approximately 10,000 counts per minute (cpm). As the surveyor moved toward the northern boundary of the DTL the gamma radiation count rate consistently increased reaching a maximum of approximately 33,000 cpm at the northern boundary. The trend of a threefold increase in count rate over a southern to northern transect was consistent at the location. The surveyor's professional judgment was the DTL did not have consistent gamma radiation measurements and TP-16 was classified as an anomaly. Therefore, TP-16 was rejected as a surface soil sampling location and alternative location was randomly selected.

The gamma emitting anomaly at TP-16 was not well characterized or understood. One possible cause for the anomaly is the intense deformation from faulting and folding of the location within the Santa Monica Mountains. Additionally, the anomaly is located at a junction of the following geologic units: Quaternary Alluvium, Modelo Formation, Las Llajas Formation, Tuna Canyon Formation, Santa Monica Slate and the Conejo Volcanics. The minerals associated with these geologic units vary; consequently the gamma spectra for the soils overlying these geologic units could also vary. However, it was not the objective of this study to determine the cause of an anomaly, thus further evaluation was not performed.

6.0 ANALYTICAL DATA RESULTS

The laboratory analysis of the Santa Susana Field Laboratory (SSFL) Background Study samples was completed by Pace Analytical Services, Inc. (Pace). The analytical results were validated by The Palladino Company of San Francisco, California.

6.1 DATA TABLES

The validated soil sample results are presented in Tables 6.1 to 6.64. The gamma spectroscopy results for barium-133, californium-249, silver-108, and silver-108m were rejected due to spectral interference from naturally occurring radionuclides, which were observed in all the samples. Therefore, the results for these four radionuclides are not presented.

The soil sample locations are shown on Figures 6.1, 6.2, and 6.3. Figure 6.1 shows the sampling locations at the Lang Ranch radiological background reference area (RBRA), Figure 6.2 shows the sampling locations at the Rocky Peak RBRA, and Figure 6.3 shows the sampling locations at the Bridle Path RBRA.

Each data table presents all the soil sample results for that radionuclide. Within each data table, the results are separated into seven categories as follows:

1. Lang Ranch RBRA Surface Soil Samples (Chatsworth Formation)
2. Lang Ranch RBRA Subsurface Soil Samples (Chatsworth Formation)
3. Rocky Peak RBRA Surface Soil Samples (Chatsworth Formation)
4. Rocky Peak RBRA Subsurface Soil Samples (Chatsworth Formation)
5. Bridle Path RBRA Surface Soil Samples (Santa Susana Formation)
6. Bridle Path RBRA Subsurface Soil Samples (Santa Susana Formation)
7. Distance Test Locations (DTL) - (this category only present for a few radionuclides)

Soil samples from the RBRAs were analyzed for the entire list of analytes. Soil samples from the DTLs were analyzed only for cesium-137, cobalt-60, strontium-90, plutonium-238, and plutonium-239/240.

Each data table exhibits the analytical results for each radionuclide. Below is a brief description of the columns in the data tables:

- **Sample ID** – Field sample identification for each sample. Any sample ending in "SUR' is a surface soil samples and any sample ending in a "SUB" is a subsurface sample.
- **Analyte** – Isotope that was analyzed.
- **Results** – The activity in the sample. Activity concentration is expressed in picocuries per gram (pCi/g) of dry soil. Analyses for tritium, carbon-14, technetium-99, and iodine-129 are reported in units of pCi/g of "as-received" soil.

- **Qualifier** – Qualifier of data that may not meet all the required method quality objectives (MQO), but may still be usable under certain conditions.
- **Uncertainty** - The overall potential error in the measurement result. This represents the 95% confidence interval uncertainty for this particular sample. Reported at the 1.96σ Confidence Interval. Gamma spectroscopy reported at the 2σ Confidence Interval.
- **MDC** - The theoretical amount of activity that would have to be in a sample, in order to be distinguishable from a sample with no activity.
- **Agricultural PRGs** – Preliminary remediation goals (PRG) based on agricultural land uses.

Agricultural PRGs are included in the tables because at the time this study was planned, California Law (Article 5.5 in Chapter 6.8 of Division 20 of the Health and Safety Code [SB 990]) dictated that that radiological contamination at the SSFL should ultimately be remediated to agricultural PRGs. Since that time, the California Department of Toxic Substances Control (DTSC) and the Department of Energy (DOE) signed the Administrative Order on Consent (AOC) on December 6, 2010, which requires cleanup of radioactive contaminants to local background concentrations in SSFL Area IV and the Northern Buffer Zone.

Raw analytical data results from the SSFL Background Study can be found in Appendix E and Appendix F. Appendix E contains all the electronic data deliverable (EDD) results while Appendix F contains all the data packages received from the laboratory for this project.

6.2 DATA VALIDATION

The validation of radioanalytical data for the SSFL Radiological Background Study has been completed. With consideration for the following caveats and additional discussion, the data are acceptable for their intended purpose; that is, to develop a statistical profile against which to compare individual on-site sample analysis results to determine the extent of potential site contamination that may be attributable to site activities.

The validation of Level-IV equivalent data packages was performed in accordance with the recommendations of:

- *Multi-Agency Radiological Laboratory Analytical Protocols Manual* (MARLAP, EPA et al., 2004, specifically Chapter 8); and
- *Evaluation of Radiochemical Data Usability* (DOE, 1997).

With additional specific guidance from:

- *Santa Susana Field Laboratory - Radiological Background Study Quality Assurance Project Plan* (QAPP);
- *QAPP February 1, 2011 Addendum,* Regarding Modification of Data Qualifiers;
- *PACE Analytical Services, Inc., Laboratory Quality Assurance Plan* (LQAP); and
- *PACE Analytical Services, Inc., Standard Operating Procedures* (SOP).

The data in the analytical results tables (Tables 6.1 to 6.64) are properly qualified, indicating which results are acceptable for their intended use and which are to be either qualified or rejected. Data validation reports for each data package are included in Appendix G.

6.2.1 General Limitations

In the validation of the laboratory radioanalytical data, numerous relatively minor issues were identified. The most common result of these various issues is that many of the reported results appear to have additional uncertainty beyond that which is reported by the laboratory in their Total Propagated Uncertainty (TPU) (i.e., Combined Standard Uncertainty [CSU]) values for individual results. For example, the laboratory's use of alternate or non-routine acceptance criteria for quality assurance measurements such as calibration verification and radioactive standard verification may have resulted in the acceptance of reported results in which the actual magnitude of the uncertainty in the result, attributable to those steps in the analytical process, probably exceeds the standard value used in the laboratory's calculations. The increase in the magnitude of that actual uncertainty is difficult to assess precisely, but is believed to be considerably less than other, accurately quantified contributions to the reported uncertainty, such as the sample counting uncertainty for each result. The magnitude of the laboratory's underestimate of TPU is, therefore, not believed to be significantly large and is not believed to have any impact on other calculated values, such as the minimum detectable concentration (MDC).

Given the very large population of results, the primary use of the data, which provide background threshold values (BTV) from the statistical assessment of the reported activity concentrations, and without regard to the reported TPU, the data quality is not significantly affected, with respect to its intended use.

In addition, the reported results for particular gamma-emitting radionuclides may be subject to a high bias due to the presence of interfering gamma rays from naturally occurring radionuclides which are ubiquitous in all soils. While considerable effort has been made to minimize these potential biases in the analytical process, some influence from naturally occurring radionuclides remains apparent in selected results. With respect to the usability of the background data, identical biases are expected in the results for on-site sample analyses. This allows the accurate assessment of the net difference between on-site sample activities and background study sample activities for these radionuclides. The impact to the quality and usability of the data is therefore not believed to be significant, with respect to its intended use.

Other unanticipated future uses of the data, especially the use of individual measurements to determine background activities at specific sampling locations, should be discouraged without the approval and guidance of a qualified radiochemist. In such cases it should be understood that the true radionuclide concentration in an individual sample may be slightly above or below the reported uncertainty range, at the specified confidence interval. This consideration is not believed to be applicable when large numbers of results are statistically combined, as is the case in this study.

6.2.2 Revision of the Data Qualifiers

The use of data qualifiers has been revised from the initial QAPP recommendations, as follows:

- Sample results above the associated 2σTPU, but below the MDC, are not qualified with a J-flag (i.e., having additional unreported uncertainty) as indicated in the original QAPP, because the results are already accompanied by an adequate uncertainty estimate. In those cases, the J-flag has been appropriately suppressed for all radiochemistry results.
- Where the data quality is acceptable for the intended use, as discussed above, the use of J-flags to qualify data that has additional uncertainty beyond that which has been reported in the TPU, has been suppressed.
- For samples in which the chemical yield is determined by radiochemical tracer, and is marginally outside acceptance criteria, but the reported TPU properly reflects the quality assurance (QA) excursion, no further qualification of the data is required.
- Where chemical yield excursions do appear to affect the data quality, the validator's technical assessment of whether the individual sample result has increased uncertainty and requires a J-flag, or whether the result may be actually biased, requiring a K- or L-flag, is based on the specific radiochemical separation and analysis techniques used.
- The validation effort for gamma spectroscopy results has incorporated the use of an additional data qualifier, S, to indicate that the results may be subject to spectral interference, which may cause a high bias to the results. These results are acceptable for their intended use, with the caveat that the gamma spectroscopy analytical library used for subsequent analyses is consistently applied from the background study to the on-site analyses.

6.2.3 Evaluation of Field Duplicate Samples

As provided in the QAPP, field duplicate evaluation considers a potential additional 1σ uncertainty of 10% due to inhomogeneity of co-located, but non-homogenized, field samples. Sample results that are otherwise qualified or rejected for laboratory quality reasons, are not included in this assessment.

The assessment of field duplicate sample results does not appear to indicate gross inhomogeneity or other quality issues that might negatively impact the use of the data. Of 860 unqualified results for field duplicate samples, 37 (4.3%) have duplicate error ratios (Z_{DER}) above 1.96, but below 2.58. In addition, 49 (5.7%) have Z_{DER} values above 2.58. While this is somewhat above the frequency that would be expected in a well-controlled experiment, the excursions are believed to be associated primarily with:

- A potential underestimate of the 10% field homogeneity factor used for the field duplicate assessment.
- Additional unreported laboratory uncertainties, as discussed above.

The results do not appear to indicate significant inhomogeneity introduced by field sampling conditions that would adversely impact the quality or usability of the data.

6.2.4 Inter-Method Comparison of Results

An assessment has been performed of the various radionuclides that would be expected to be found in secular equilibrium in background samples. The assessment identifies gross biases between analytical methods, and between individual results within a method.

In some cases, results for a particular radionuclide in a decay chain are not measured directly but are simply inferred from the results reported for another ancestor or progeny radionuclide in the decay chain. For example, actinium-228 is measured directly by gamma spectrometry. The radium-228 parent has no gamma emissions useful for analysis, but in environmental samples is always in secular equilibrium with actinium-228. The radium-228 activity, therefore, is reported using the same values produced in the actinium-228 analysis. In these cases, where the ancestor and progeny are inarguably in secular equilibrium, there may be no apparent benefit to evaluating both radionuclides against the BTVs, since the results for both radionuclides would be equivalent to each other and their respective BTVs would be equivalent to each other as well. Nonetheless, these inferred results are included in this report in order to present the complete picture.

In other cases, the parent and progeny radionuclides may be measured separately, as in the case of thorium-228 and lead-212. In these cases, it may appear that measurement and evaluation of the shorter-lived progeny is not necessary, as long as secular equilibrium with the shorter-lived progeny and its parent can be assured. Nonetheless, the separate measurement and evaluation of the shorter lived progeny is a primary means for evaluating gross biases in the analytical methodology, as mentioned above, and the corresponding results have been included in this report as a supplemental quality assurance measure.

- The thorium decay chain (atomic number Z=4n) is referenced to the thorium-232 results, reported by alpha spectrometry.
    - The average reported activity for non-rejected thorium-238 results, reported by the same alpha spectrometry method, is approximately 135% of the reported thorium-232 results. This suggests a potential high bias in the thorium-238 results, the root cause of which is not determined, but which is likely to be related to the laboratory control of background and regions-of-interest in the analytical method, and which might be considered in the comparison of on-site results to the BTV.
    - The average reported activity for non-rejected bismuth-212 results, reported by the gamma spectrometry method, is approximately 74% of the reported thorium-232 results. This result is also approximately 68% of the average lead-212 activity, which is reported by the same gamma spectrometry method, and which is expected to be equivalent to the bismuth-212 results. This suggests a potential low bias in the bismuth-212 results, the root cause of which is not determined, but which might be considered in the comparison of on-site results to the BTVs.
- The uranium decay chain (atomic number Z=4n+2) is referenced to the uranium-238 results, reported by alpha spectrometry.
    - Apparent high biases observed in other radionuclides in this decay chain, across various independent methods, suggests a potential slight low bias in the reported

isotopic uranium results, the magnitude of which may be on the approximate order of 10 to 15%. The root cause this potential bias has not been determined, but is within the range of the reported uncertainties of the various methods that contribute to the comparison. Nonetheless, the magnitude of the apparent bias should be considered in the comparison of on-site results to the BTVs.

- There appears to be a measurable high bias in the reported results for thorium-234 by gamma spectrometry, beyond that which might be explained by the isotopic uranium results described above. The apparent cause of this bias has been identified and is attributable to spectral interference from other naturally occurring radionuclides, such as bismuth-214, which are ubiquitous in the samples. In this case, consistent use of the project-required gamma analytical library should ensure comparability of the background results to the on-site sample results. Other systematic biases in the laboratory's analytical results for thorium-234 have not been identified, but are not explicitly ruled out. Nonetheless, the impact of the analytical bias is not believed to be significant due to the very high agricultural Preliminary Remediation Goal (PRG) for thorium-234, which is approximately 10x the observed thorium-234 activity in the background samples, and approximately 50x the magnitude of the apparent bias.
- The average reported activity for non-rejected bismuth-214 and lead-214 results, which are expected to be equivalent to the reported radium-226 results, show a low bias of approximately 15% in that comparison. The root cause of that apparent discrepancy is that the bismuth-214 and lead-214 results are derived from an unsealed gamma spectrometry analysis. The radium-226 results are derived from observed bismuth-214 and lead-214 results in a hermetically sealed gamma container, designed to prevent the emanation of the radon-222 intermediate progeny. Consequently, the difference in the reported bismuth-214 and lead-214 results, compared to the radium-226 results, is attributable to the observed radon emanation rate in the unsealed container. Given the extremely high BTVs for bismuth-214 and lead-214, this difference is not believed to be significant.

- In the case of cesium-137 and its barium-137m progeny, barium-137m is measured directly, and cesium-137 is assumed to be present at a level that is 5.7% greater, due to the 94.6% branching ratio of cesium-137 to barium-137m. This may be inconsistent with the common, but incorrect, assumption that the two radionuclides are present at the same concentration.

All other inter-analyte comparisons within supported decay chains show good consistency, within 10% of the expected values.

All efforts are being made to ensure that the laboratory analyses of the soil samples at the SSFL are as similar as possible to the laboratory analyses done for the background study. As discussed above, it may not have been necessary to report the results for some radionuclides. However, there may be some chemical or physical processes occurring in the background area soils that could cause some small degree of separation between radionuclide activities. Therefore, no SSFL Background Study radionuclide results are being removed or omitted based on their location on decay chains or relationships to other radionuclides in this report. Potential

management decisions associated with including these radionuclides in the DTSC issued Look-Up Table are discussed in Section 9.

6.2.5 Evaluation of Equipment Blanks

Due to an error at the laboratory, sand blanks for the laboratory grinding equipment were not properly collected or analyzed. However, the impact of this laboratory error should not be significant—the presence of a sample population with significant inhomogeneity, or samples with significantly elevated activity that might pose a risk of sample cross contamination to a degree that compromises the analytical results, would inherently disqualify that population from consideration as "background" samples. The statistical assessment of BTVs has not shown this to be the case. The impact of the absence of these equipment blanks, therefore, is not believed to be significant.

6.2.6 Other Uses of the Data

As discussed above, the data is believed to be acceptable for its intended purpose, that is, to develop a statistical profile against which to compare individual on-site sample analysis results to determine the extent of potential site contamination that may be attributable to site activities. Other unanticipated or unintended uses of the data should be discouraged without careful review and technical guidance by a qualified radiochemistry or nuclear measurements analyst.

7.0 STATISTICAL EVALUATION

7.1 OVERVIEW

Once the data were determined to be useable, statistical methods were used to compare radionuclide concentrations in soil samples collected at the distance test locations (DTL) to radionuclide concentrations in soil samples collected at the radiological background reference areas (RBRA). In addition, statistical tests were used to determine whether the background datasets collected at the three RBRAs could be combined into one or more larger datasets. Finally, background threshold values (BTV) were calculated for each radionuclide in surface and subsurface soils.

Background threshold values (BTV) are representative of the true background concentrations of the target radionuclides. Once defensible and representative RBRA datasets free of outliers and representing site conditions not affected by site-related activities were established, BTVs were estimated by using the documented and well established statistical procedures available in the environmental statistical literature.

A large number of on-site soil samples will be compared to the calculated BTVs. Analytical results from on-site soils that are less than the BTVs represent unimpacted locations and can be considered as coming from the same background populations. Analytical results from on-site soils that exceed the BTVs potentially represent locations not belonging to the background population and may require further investigation and/or cleanup.

7.2 IDENTIFICATION OF OUTLIERS

Once the datasets became available from the RBRAs and DTLs, those datasets were screened for potential outliers. Outlying observations were not included in hypotheses testing and estimation of the BTVs. The presence of even a few outliers in a background reference dataset can yield distorted/inflated estimates of the BTVs and hypothesis testing statistics. Classical (e.g., Dixon and Rosner tests) and robust statistical methods (e.g., influence function based) supplemented with graphical displays were used to identify all potential outliers. The detailed description of outlier identification procedures used is described in Appendix B. The U.S. Environmental Protection Agency (EPA) Scout 2008 Version 1.00.01 and ProUCL 4.00.05 software packages were used to identify potential outliers present in the RBRA and DTL datasets. Outlier identification for each radionuclide is detailed in Appendix A.

Outliers found in RBRAs and DTLs may represent observations not representative of background conditions and were therefore not included in statistical evaluations. A defensible background dataset should represent a "single" background population (that is, representative of site conditions before any of the industrial site related activities).

7.3 COMPARISON OF RADIOLOGICAL BACKGROUND REFERENCE LOCATIONS TO DISTANCE TEST LOCATIONS

Sampling at the DTLs was designed to determine whether surface soils at the RBRAs have been impacted by releases from SSFL. To determine if the RBRAs are representative of unimpacted

background soils, the analytical data from the RBRAs were compared to the analytical data from the DTLs. If the analytical data from the RBRAs are comparable to the analytical data from the DTLs, then the RBRAs can be considered to represent unimpacted background locations.

As previously mentioned, surface soils from the DTLs were analyzed only for cesium-137, cobalt-60, plutonium-238, plutonium-239/240, and strontium-90. Therefore, only surface soil analytical results from the RBRAs for these five radionuclides were compared with the analytical results from the DTLs. The statistical evaluations for each of these five radionuclides are discussed in the following subsections and detailed in Appendix A.

7.3.1 Cesium-137

Figure 7.1 compares cesium-137 surface soil analytical results between the RBRAs (Chatsworth and Santa Susana formations) and the DTLs. From this figure and analysis of variance (ANOVA) test results summarized in Appendix A, it is concluded that cesium-137 activity in surface soils of the Chatsworth Formation, the Santa Susana Formation, and the DTLs is comparable at a 0.025 level of significance (nonparametric Kruskall-Wallis test) and at a 0.05 level of significance (classical F-test). Therefore, it is concluded that cesium-137 activity in surface soils of the two formations is comparable to that of the DTLs, and that the dataset collected from the RBRAs represents the same background population as the DTLs.

7.3.2 Cobalt-60

The cobalt-60 surface soils analytical results from both the RBRAs and the DTLs exhibited mostly nondetect (ND) results. No meaningful and defensible statistical analysis may be performed on a dataset consisting mostly of NDs. However, because the data from both the RBRAs and the DTLs exhibited mostly NDs for cobalt-60, it is concluded that the dataset collected from the RBRAs is the same background population represented by the DTLs.

7.3.3 Plutonium-238

Figure 7.2 compares plutonium-238 surface soil analytical results between the RBRAs (Chatsworth and Santa Susana formations) and the DTLs. Based on ANOVA results summarized in Appendix A, and the graph displayed in Figure 7.2, it is concluded that plutonium-238 activity in surface soils of the two formations is comparable to that of the DTLs. Therefore, the RBRAs of the Chatsworth and Santa Susana formations are believed to represent unimpacted background locations.

7.3.4 Plutonium-239/240

Figure 7.3 compares plutonium-239/240 surface soil analytical results between the RBRAs (Chatsworth and Santa Susana formations) and the DTLs. This and the two-sample Gehan Test results summarized in Appendix A suggest that plutonium-239/240 activity in the Santa Susana Formation is comparable to the DTLs and plutonium-239/240 activity in the Chatsworth Formation is comparable to the DTLs. Therefore, the RBRAs of the Chatsworth and Santa Susana formations are considered as representing unimpacted background locations.

7.3.5 Strontium-90

Figure 7.4 compares strontium-90 surface soil analytical results between the Bridle Path RBRA, the DTLs, the Lang Ranch RBRA, and the Rocky Peak RBRA. From a practical point of view (and a narrow range of strontium-90 concentrations), strontium-90 concentrations in surface soils of the Lang Ranch RBRA, the Rocky Peak RBRA and the Bridle Path RBRA are considered as coming from the population of strontium-90 activity representing the DTLs. Therefore, the RBRAs of the Chatsworth and Santa Susana formations represent unimpacted background locations.

7.4 RADIOLOGICAL BACKGROUND REFERENCE AREAS AS BACKGROUND LOCATIONS

A more detailed analysis of each of the radionuclides listed above is included in Appendix A. Based on the statistical comparisons of the analytical results between the RBRAs and the DTLs, it was determined that the RBRAs represent unimpacted background locations. Therefore, all BTV calculations were completed using analytical data from the RBRAs.

8.0 DETERMINATION OF BACKGROUND THRESHOLD VALUES

Once it was determined that the radiological background reference areas (RBRA) represent unimpacted background locations (after removing identified outliers), background threshold values (BTV) were calculated using analytical data collected from all the RBRAs. No distance test location (DTL) analytical data were used in the determination of BTVs.

BTVs were estimated based on established background data collected from unimpacted background locations represented by the RBRAs. The details of the statistical procedures used to establish defensible background data sets are described in Appendix B. The analytical data from the RBRAs has been determined to be an established background dataset by:

- Conducting exhaustive research on the RBRAs to ensure that they were unimpacted areas, including site visits, aerial photograph interpretation, and historical research;
- Removing statistical outliers from the dataset; and
- Comparing the RBRA analytical data to the DTL data.

8.1 APPROPRIATE STATISTIC TO ESTIMATE BACKGROUND THRESHOLD VALUES

Because BTVs are computed based upon an established background data set, and multiple on-site observations are to be compared with the BTVs, an appropriate statistic that maintains the proper balance between false positives and false negatives should be used. This is especially warranted for this study because many on-site observations will be compared with their respective BTVs for many radionuclides.

At many sites, the U.S. Environmental Protection Agency (EPA) uses the 95^{th} percentile or a 95% upper prediction limit to establish BTVs, because risk assessments and professional judgments can be used when it is determined that some on-site sample results above the BTVs may be false positives. However, for this study, the Administrative Order on Consent (AOC) asserts that any on-site sample that exceeds the BTV must be resampled, and the soil remediated, if the analytical results are reproducible. Therefore, care must be taken to limit the amount of false positives in on-site samples for this study.

Four different statistical limits were evaluated as potential statistics to determine BTVs:

1. 95^{th} Percentile
2. 95% Upper Prediction Limit (UPL95)
3. 95%-95% Upper Tolerance Limit (UTL95-95)
4. 95% Upper Simultaneous Limit (USL95)

A brief description of each of these statistics are included the following sections.

8.1.1 95th Percentile

Based on the established background dataset (RBRA samples), the 95th percentile represents that statistic such that 95% of observations from the background data set are less than or equal to the 95th percentile. Conversely, about 5% of values from the background dataset will exceed the 95th percentile just by chance.

If one uses the 95th percentile to estimate BTVs and assuming the current dataset accurately captures the range of all background values, at least 5% of on-site observations with concentrations comparable to background will be determined as not belonging to the background population, even when they actually come from the background population. The 95th percentile does not take into account the variability of the data set for predictive purposes. The use of the 95th percentile to estimate BTVs may potentially lead to a higher number of false positives resulting in unnecessary cleanup.

8.1.2 95% Upper Prediction Limit (UPL95)

A prediction interval is an estimate of an interval in which future observations will fall, with a certain probability or level of confidence, based on what has already been observed. The UPL95 establishes a limit that would classify future observations at or below this limit as being taken from the background population with a confidence coefficient (CC) of 95%. In most practical applications, the choice of 95% CC provides a good compromise between false positives and false negatives.

If an on-site analytical result exceeds the UPL95, it potentially represents a value not belonging to the background population. UPL95 is useful when a background dataset is of smaller size, such as fewer than 10 or 15 samples; or when a few or known number of future observations are to be compared to the UPL95. If many (generally more than 30 samples) independent on-site analytical results are compared to the same UPL95, each on-site result may exceed that UPL95 with a 5% probability just by chance. The UPL95 can exploit the characteristics of a known underlying distribution (e.g., normal, gamma), or it can be based upon distribution-free assumptions (non-parametric).

8.1.3 95%-95% Upper Tolerance Limit (UTL95-95)

A tolerance interval establishes limiting values that includes a fixed proportion of a population with a stated confidence. For the SSFL, the UTL95-95 is a value that represents the upper limit of a tolerance interval such that 95% of the observations from the background population will be less than or equal to that value with a CC of 95%. The UTL95-95 is designed to simultaneously provide coverage for 95% of all potential observations (current and future) from the background population with a CC of 95%. Alternatively, the UTL95-95 represents a 95% upper confidence limit for the 95th percentile.

From an exceedance perspective, a UTL95-95 is the value that will be exceeded less than 5% of the time by all values potentially coming from the background population with a CC of 95%. This is true for each radionuclide. A parametric UTL95-95 takes into account variability of background dataset. When the dataset does not follow a discernable distribution, a nonparametric

UTL represented by a higher order statistic (for example, the largest value or the second largest value) can be used as an estimate of BTV. When sample size is large (such as 500), UTL95-95 approaches the 95th percentile.

8.1.4 95% Upper Simultaneous Limit (USL95)

A USL95 represents that statistic such that all observations, not some proportion or percentile, from the established background data set will be less than or equal to USL95 with a confidence coefficient (CC) of 95%. It is expected that *all* potential observations (present and future) coming from the background population will be less than or equal to USL95 with a 95% CC.

For each radionuclide, the false positive error rate does not change with the number of comparisons, as USL95 is meant to perform many comparisons simultaneously. A parametric USL95 takes variability of the background dataset into account. When the dataset does not follow a discernable distribution, a nonparametric USL represented by the largest value in the dataset can be used as an estimate of BTV.

8.1.5 Determination of Appropriate Statistic

Based on the analytical results and the uniqueness of the on-site investigation, it was determined that the USL95 was the best statistic to estimate background threshold values (BTV). The USL95 was used to determine BTVs for the SSFL Background Study because:

- Exhaustive research on the RBRAs (site visits, aerial photograph interpretation, historical research) to ensure that they were unimpacted areas;
- Comparison of the RBRA analytical data to the DTL data confirms that the RBRA locations have not been impacted by any activities at the SSFL;
- The analytical data is very consistent;
- There are few outliers in the analytical data which are not being included in the statistical evaluation; and
- The Administrative Order on Consent (AOC) requires that any on-site sample that exceeds the BTV must be retested for reproducibility or remediated; therefore, care must be taken to limit the number of false positives in on-site samples for this study so that resources can be directed toward cleaning up sites where contamination is present.

8.2 CALCULATING BACKGROUND THRESHOLD VALUES FOR EACH RADIONUCLIDE

8.2.1 Radionuclides with Fewer than Five Detections

Eleven radionuclides analyzed for the SSFL Background Study exhibited fewer than five detections (Table 8.1). Due to the low number of detections, no meaningful and defensible statistical analysis may be performed on such a data set consisting mostly of nondetects (ND). In addition, any detection in a dataset consisting mostly of NDs must also be evaluated with caution.

Based on an overall evaluation of these 11 radionuclides, it can be determined that these radionuclides are not present at the background locations. However, a value needs to be determined to compare to on-site sample results. Therefore, the maximum ND value for each radionuclide is presented as the BTV, as shown in Table 8.1. In other words, the highest recorded value for each radionuclide that is considered to be a ND is the BTV. For data sets with fewer than five NDs, the approach described above is the most appropriate approach to establish estimates of BTVs.

8.2.2 Radionuclides with Five or More Detections

Fifty-three radionuclides analyzed for the SSFL Background Study exhibited five or more detections. Because five detections are enough to conduct a defendable statistical analysis, BTVs were calculated for these radionuclides using the USL95. These radionuclides are exhibited in Table 8.2.

As shown in Table 8.2, the gamma spectroscopy results for barium-133, californium-249, silver-108, and silver-108m were rejected due to spectral interference from naturally occurring radionuclides. This interference was observed in all soil samples collected from the RBRAs. It is unlikely that any of these radionuclides will be of any concern in the soil samples results from the SSFL based on former investigations and site history. However, if any of these radionuclides become an issue during the on-site investigation, archived samples will be reanalyzed to attempt to determine BTVs.

BTV calculation details for all the radionuclides with five or more detections are included in Appendix A. There were six individual datasets that were evaluated for each radionuclide:

1. Lang Ranch RBRA Surface Soils (Chatsworth Formation)
2. Lang Ranch RBRA Subsurface Soils (Chatsworth Formation)
3. Rocky Peak RBRA Surface Soils (Chatsworth Formation)
4. Rocky Peak RBRA Subsurface Soils (Chatsworth Formation)
5. Bridle Path RBRA Surface Soils (Santa Susana Formation)
6. Bridle Path RBRA Subsurface Soils (Santa Susana Formation)

For each radionuclide, each of these datasets was statistically compared to each other to determine if they were similar enough to be merged. After these comparisons, the radionuclide BTV calculations fell into five main categories, which are presented in the tables noted in parentheses:

1. Radionuclides with One BTV for all Results (Table 8.3)
2. Radionuclides with Surface Soil and Subsurface Soil BTVs (Table 8.4)
3. Radionuclides with BTVs based on Geologic Formations (Table 8.5)
4. Radionuclides with BTVs based on RBRAs (Table 8.6)
5. Radionuclides with BTVs based on Individual Datasets (Table 8.7)

Each of these categories is discussed below.

8.2.2.1 Radionuclides with One Background Threshold Value for all Results

Some radionuclides exhibited results that were statistically similar between all the datasets. These radionuclides are detailed in Table 8.3. In these instances, all the analytical data were combined to calculate one BTV.

Plutonium-238 is an example of a radionuclide that falls into this category. A plot of all the plutonium-238 data is shown on Figure 8.1 along with an illustration of the calculated USL95 and other statistical limits.

8.2.2.2 Radionuclides with Surface Soil and Subsurface Soil Background Threshold Values

Some radionuclides exhibited results showing statistically significant differences between surface soil and subsurface soils. These radionuclides are detailed in Table 8.4. The analytical results for these radionuclides did not exhibit statistically significant differences between geologic formations or RBRAs. For these radionuclides, separate BTVs were calculated for surface and subsurface soils.

Strontium-90 is an example of a radionuclide that falls into this category. A plot of the strontium-90 results for surface soil is shown on Figure 8.2 along with an illustration of the calculated USL95 and other statistical limits. A plot of the strontium-90 results for subsurface soil is shown in Figure 8.3 along with an illustration of the calculated USL95 and other statistical limits.

8.2.2.3 Radionuclides with Background Threshold Values based on Geologic Formations

Some radionuclides exhibited results showing statistically significant differences between geologic formations. These radionuclides are detailed in Table 8.5. The analytical results for these radionuclides did not exhibit statistical differences between soil intervals (surface and subsurface) or RBRAs. For these radionuclides, separate BTVs were calculated for soils from the Chatsworth Formation and soils from the Santa Susana Formation. This variability is probably due to natural differences between the two geologic formations and their associated soils.

Thorium-232 is an example of a radionuclide that falls into this category. A plot of the thorium-232 results for Chatsworth Formation soils is shown on Figure 8.4 along with an illustration of the calculated USL95 and other statistical limits. A plot of the thorium-232 results for Santa Susana Formation soil is shown on Figure 8.5 along with an illustration of the calculated USL95 and other statistical limits.

8.2.2.4 Radionuclides with Background Threshold Values based on Radiological Background Reference Areas

In addition to exhibiting statistical differences between geologic formations, some radionuclides exhibited statistically significant differences between RBRAs as well. Specifically, these

radionuclides exhibited statistically significant differences between the two Chatsworth Formation RBRAs (Lang Ranch and Rocky Peak). These radionuclides are detailed in Table 8.6. The analytical results for these radionuclides did not exhibit statistical differences between soil intervals. For these radionuclides, separate BTVs were calculated for the Lang Ranch RBRA, the Rocky Peak RBRA, and the Bridle Path RBRA. This variability between RBRAs is probably due to natural differences in the soil and rock types at each RBRA.

Radium-226 is an example of a radionuclide that falls into this category. A plot of the radium-226 results for the Lang Ranch RBRA is shown on Figure 8.6 along with an illustration of the calculated USL95 and other statistical limits. A plot of the radium-226 results for the Rocky Peak RBRA is shown on Figure 8.7 along with an illustration of the calculated USL95 and other statistical limits. A plot of the radium-226 results for the Bridle Path RBRA is shown on Figure 8.8 along with an illustration of the calculated USL95 and other statistical limits. Finally, Figure 8.9 exhibits the BTV calculation using all the radium-226 data.

8.2.2.5 Radionuclides with Background Threshold Values based on Individual Datasets

There are three radionuclides that exhibit statistically significant differences between individual datasets. Specifically, these radionuclides exhibit statistically significant differences between soil intervals, geologic formations, and RBRAs. These radionuclides are detailed in Table 8.7. For one of the radionuclides (radon-222), separate BTVs were calculated for Lang Ranch RBRA surface soils, Lang Ranch RBRA subsurface soils, Rocky Peak RBRA surface soils, Rocky Peak RBRA subsurface soils, Bridle Path RBRA surface soils, and Bridle Path RBRA subsurface soils. For the other two radionuclides (bismuth-214 and lead-214), separate BTVs were calculated for Lang Ranch RBRA (surface and subsurface soils combined), Rocky Peak RBRA (surface and subsurface soils combined), Bridle Path RBRA surface soils, and Bridle Path RBRA subsurface soils. This variability between each individual dataset is probably due to natural differences in the soil and rock types at each RBRA and slight differences in soil morphology between surface and subsurface soils.

9.0 USE OF BACKGROUND THREHOLD VALUES WHEN DEVELOPING CLEANUP NUMBERS

At the time this study was planned, California Law (Article 5.5 in Chapter 6.8 of Division 20 of the Health and Safety Code [SB 990]) dictated that that radiological contamination at the Santa Susana Field Laboratory (SSFL) should ultimately be remediated to the U.S. Environmental Protection Agency's (EPA's) agricultural preliminary remediation goals (PRG). Since that time, the State of California Department of Toxic Substances Control (DTSC) and the Department of Energy (DOE) signed the Administrative Order on Consent (AOC) on December 6, 2010, which requires cleanup of radioactive contaminants to local background concentrations in SSFL Area IV and the Northern Buffer Zone.

The AOC states that the EPA will determine local background levels through this SSFL Background Study Report. Once this report has been finalized, a Look-Up Table of the radiological cleanup levels will be developed by DTSC in consultation with EPA. The requirements of the AOC state that the Look-Up Table values will be based on the background threshold values (BTV) exhibited in this report. For the investigation at the SSFL, these Look-Up Table values will be compared to individual discrete soil samples collected on site. The AOC asserts that any on-site sample that exceeds the BTV must be resampled, and if the analytical results are reproducible the soil must be remediated.

EPA will consult with DTSC to produce a Look-Up Table. Although the Look-Up Table values will be based on the BTVs, they will also incorporate management decisions to facilitate the cleanup of the SSFL. The following sections discuss management decisions that may be considered for the Look-Up Table.

9.1 USE OF PRELIMINARY REMEDIATION GOALS WHEN THEY ARE HIGHER THAN THE BACKGROUND THRESHOLD VALUE

For some radionuclides, the associated agricultural PRG is greater than the estimated BTV. In these instances, one option that should be considered is to select the agricultural PRG (included for each radionuclide in Tables 8.1 to 8.7) as the Clean-Up Value in the Look-Up Table.

9.2 USE OF THE HIGHEST BACKGROUND THRESHOLD VALUE WHEN SEPARATE VALUES WERE CALCULATED FOR SURFACE AND SUBSURFACE SOILS

Some radionuclides exhibited results that were statistically similar among all the datasets (Table 8.3). In these instances, all the analytical data were combined to calculate one BTV. However, some radionuclides exhibited statistically significant differences between datasets. In these instances, management decisions will need to be made to facilitate the cleanup at the SSFL.

For some radionuclides, separate BTVs were calculated for surface soils and subsurface soils (Table 8.4). However, because of the soil disturbances that have occurred at the SSFL (such as construction, demolition, remediation, etc.), it may be difficult to distinguish surface from subsurface soil on site. Therefore, one option that should be considered when developing the

Look-Up Table is to select the higher value between surface soil BTV and the subsurface BTV as a Clean-Up Value.

9.3 USE OF COMBINED BACKGROUND THRESHOLD VALUES WHEN SEPARATE VALUES WERE CALCULATED FOR EACH GEOLOGIC FORMATION

For some radionuclides, separate BTVs were calculated for Chatsworth Formation soils and Santa Susana Formation soils (Table 8.5). During the investigation at the SSFL, it may be very difficult to determine if the soil sampling location is in the Chatsworth Formation or the Santa Susana Formation. Therefore, one option that should be considered is using the BTV calculated using all the results as the Clean-Up Value in the Look-Up Table. In addition to calculating separate BTVs for the Chatsworth Formation and the Santa Susana Formation, a BTV also was calculated using all the results (Table 8.5). The selection of these combined BTV calculations should be considered when choosing Clean-Up Values in the Look-Up Table.

9.4 USE OF COMBINED BACKGROUND THRESHOLD VALUES WHEN SEPARATE VALUES WERE CALCULATED FOR EACH RADIOLOGICAL BACKGROUND REFERENCE LOCATION OR DATASET

For some radionuclides, separate BTVs were calculated for each RBRA or dataset (Table 8.6 and Table 8.7). During the investigation at the SSFL, it will not be possible to use multiple BTVs based on RBRAs or datasets for each radionuclide. Because it has been determined that all the RBRA locations represent unimpacted background locations, one option may be to use the BTV calculated using all the results as the Clean-Up Value in the Look-Up Table. In addition to calculating separate BTVs for each RBRA or dataset, a BTV also was calculated using all the results (Table 8.6 and Table 8.7). These combined BTV calculations may be used as Clean-Up Values in the Look-Up Table when separate BTVs for RBRAs or datasets have been calculated.

9.5 POTENTIAL REMOVAL OF SOME RADIONUCLIDES FROM FURTHER CONSIDERATION

Many radionuclides produce decay products that are also radioactive and these decay products decay to other radioactive elements forming a decay chain until a stable product is eventually formed. A parent radionuclide is one that undergoes decay to form a daughter radionuclide. When the half-life of the daughter radionuclide is very short relative to the half-life of the parent, activities of both these radionuclides would be expected to be equal after a short period of time.

Therefore, determining separate Clean-Up Values for a parent radionuclide and a daughter with short half-life may not be necessary. Some radionuclides evaluated in this report may not be included in the Look-Up Table because their activity is already being evaluated in another radionuclide within its decay chain. However, the omission of any radionuclides from the Look-Up Table will be discussed with stakeholders during DTSC-sponsored meetings.

9.6 NEXT STEPS

EPA will consult with DTSC during the development of the Look-Up Table. The Look-Up Table will be available for public review and comment prior to finalization. DTSC will provide the process for public involvement.

10.0 REFERENCES

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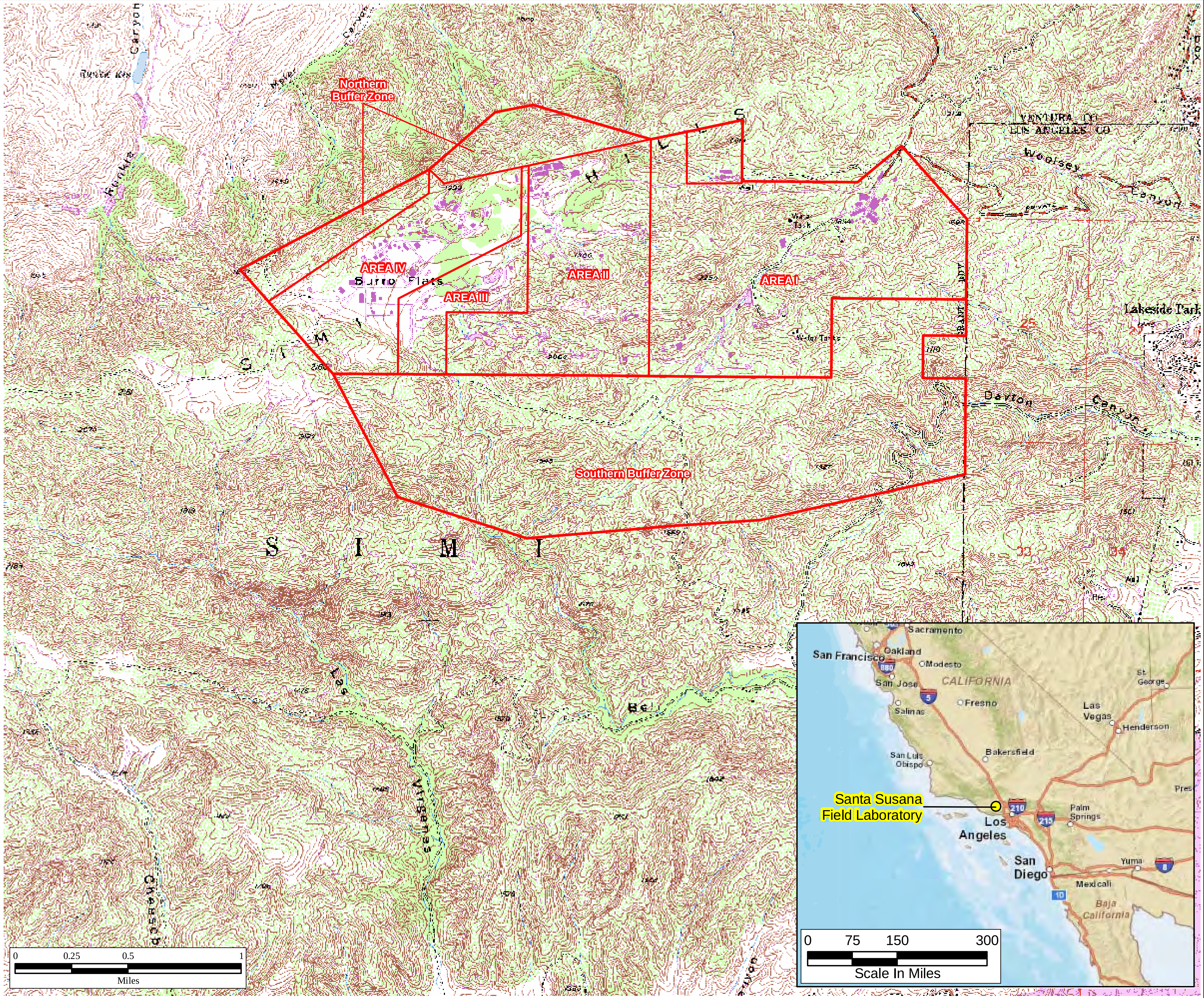
FIGURES


Northern Buffer Zone
AREA IV
Burro Flats
AREA III
AREA II
AREA I
Southern Buffer Zone
S I M I
VENTURA CO
LOS ANGELES CO
Woolsey Canyon
Dayton Canyon
Lakeside Park
Sacramento
San Francisco
Oakland
Modesto
San Jose
CALIFORNIA
Fresno
Salinas
Las Vegas
Henderson
St George
Bakersfield
San Luis Obispo
Santa Susana Field Laboratory
Los Angeles
Palm Springs
San Diego
Yuma
Mexicali
Baja California
0 75 150 300
Scale In Miles
0 0.25 0.5 1
Miles

HGL—Santa Susana Field Laboratory Radiological Background Study—Ventura County, California

Figure 1.1
Site Location
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

Santa Susana Field Laboratory Property Boundary

N

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(1_1)SiteMap_Updated.mxd
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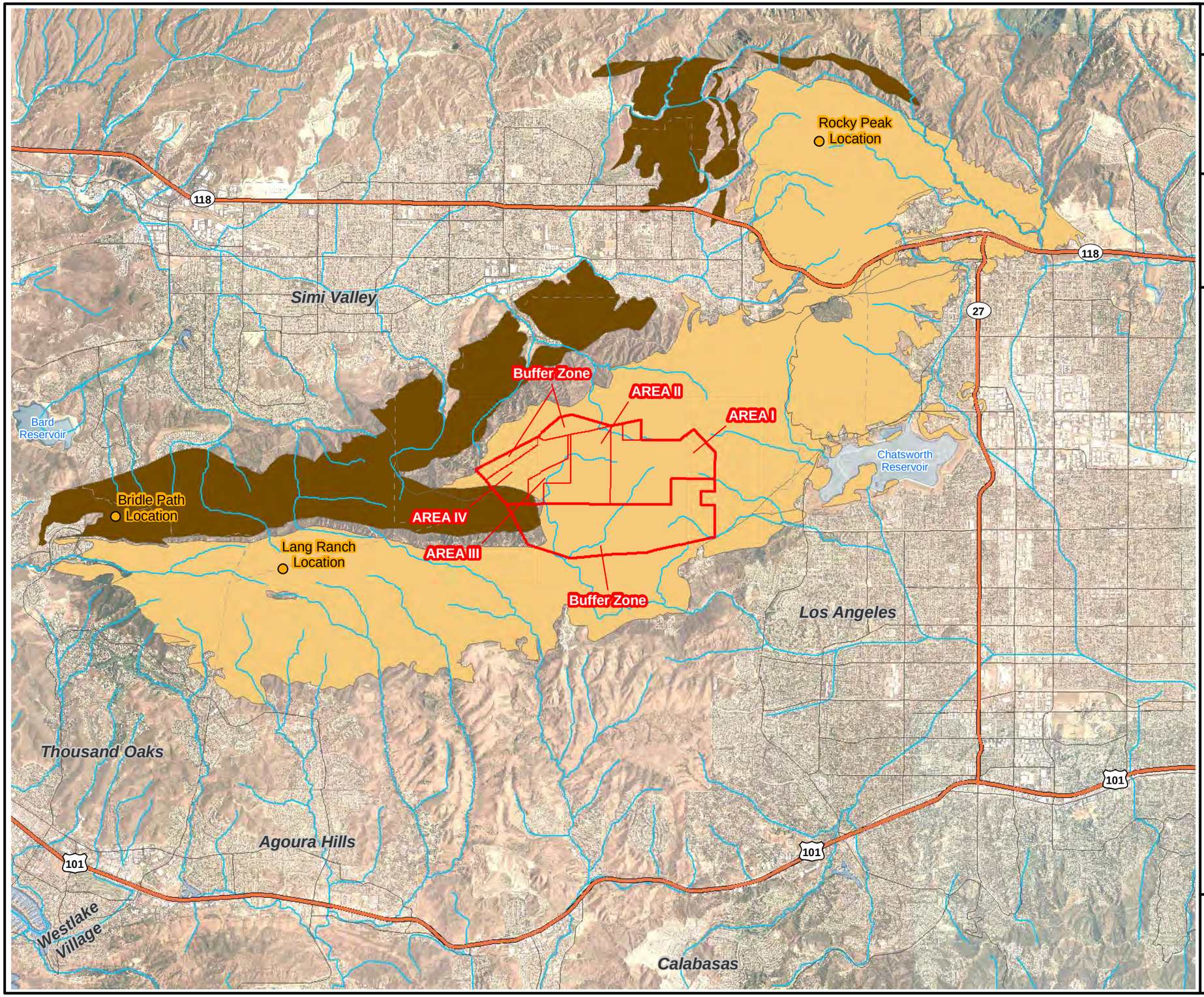
Source: USGS, Calabasas Quadrangle, 1967

Figure 1.2
Radiological Background Reference Area Locations

U.S. EPA Region 9



Legend

- Background Locations
- Santa Susana Field Laboratory Property Boundary
- Surface Water

Geology

- Chatsworth Formation
- Santa Susana Formation

N

0 0.5 1 2

Scale In Miles

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Created: CLimoges 20090806
Revised: PBillock 20100308
Source: CaSil, NAIP 2005

HGL HydroGeoLogic, Inc

Figure 1.3
Lang Ranch Radiological Background Reference Area Sampling Grid

U.S. EPA Region 9

Legend

- Soil Sampling Location
- Lang Ranch Radiological Background Reference Area
- Intermittent Stream
- City Boundary

N

0 250 500 1000
Scale In Feet

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(1_3)LangRanch_Map_20090910.mxd
Project: E10021
Created: CLimoges 20090910
Revised: PDay 2011-09-20
Source: USGS, January 2006; September 2007

HGL HydroGeoLogic, Inc

Figure 1.4
Rocky Peak Radiological Background Reference Area Sampling Grid

U.S. EPA Region 9

Legend

- Soil Sampling Location
- Rocky Peak Radiological Background Reference Area
- Intermittent Stream
- City Boundary

N

0 250 500 1000
Scale In Feet

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(1_4)RockyPeak_Map_20090910.mxd
Project: E10021
Created: CLimoges 20090910
Revised: PBillock 20100318
Source: USGS, January 2006; September 2007

HGL HydroGeoLogic, Inc

Figure 1.5
Bridle Path Radiological Background Reference Area Sampling Grid

U.S. EPA Region 9

Legend

- Soil Sampling Location
- Approximate Location of Radiological Background Reference Area
- Intermittent Stream
- City Boundary

N

0 250 500 1000
Scale In Feet

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(1_5)BridlePath_Map.mxd
Project: E10021
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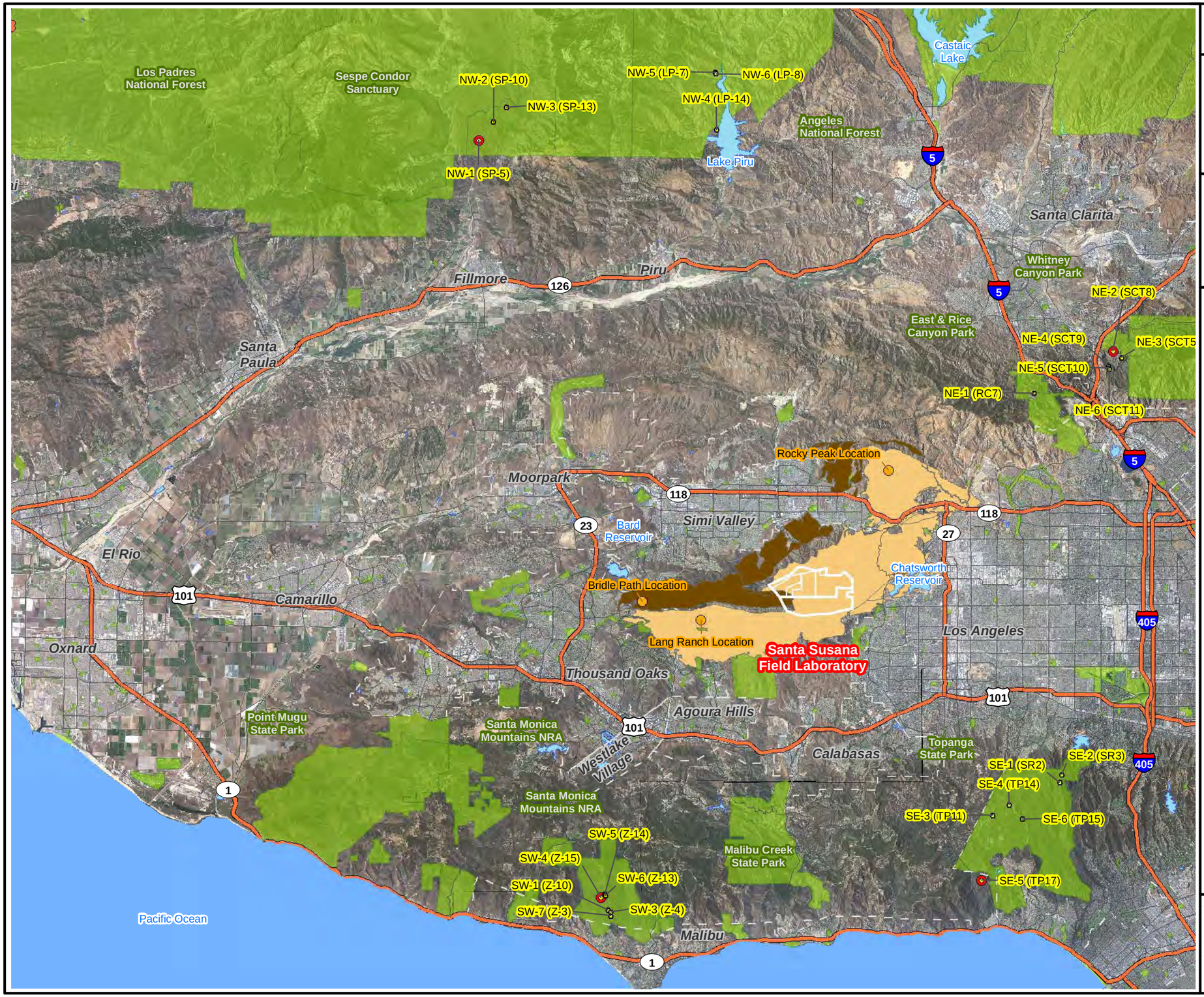
HGL HydroGeoLogic, Inc

Figure 1.6
Distance Test Locations

U.S. EPA Region 9



Legend

- Distance Test Locations
- Contingency Distance Test Locations
- Santa Susana Field Laboratory Property Boundary
- Parks

Geology

- Chatsworth Formation
- Santa Susana Formation

N

0 1 2 4

Scale In Miles

Filepath:Y/Santa_Susana/E10021/20100308_SampleResults/(1_6)DTLs_Overview.mxd
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Created: CLimoges 20090910
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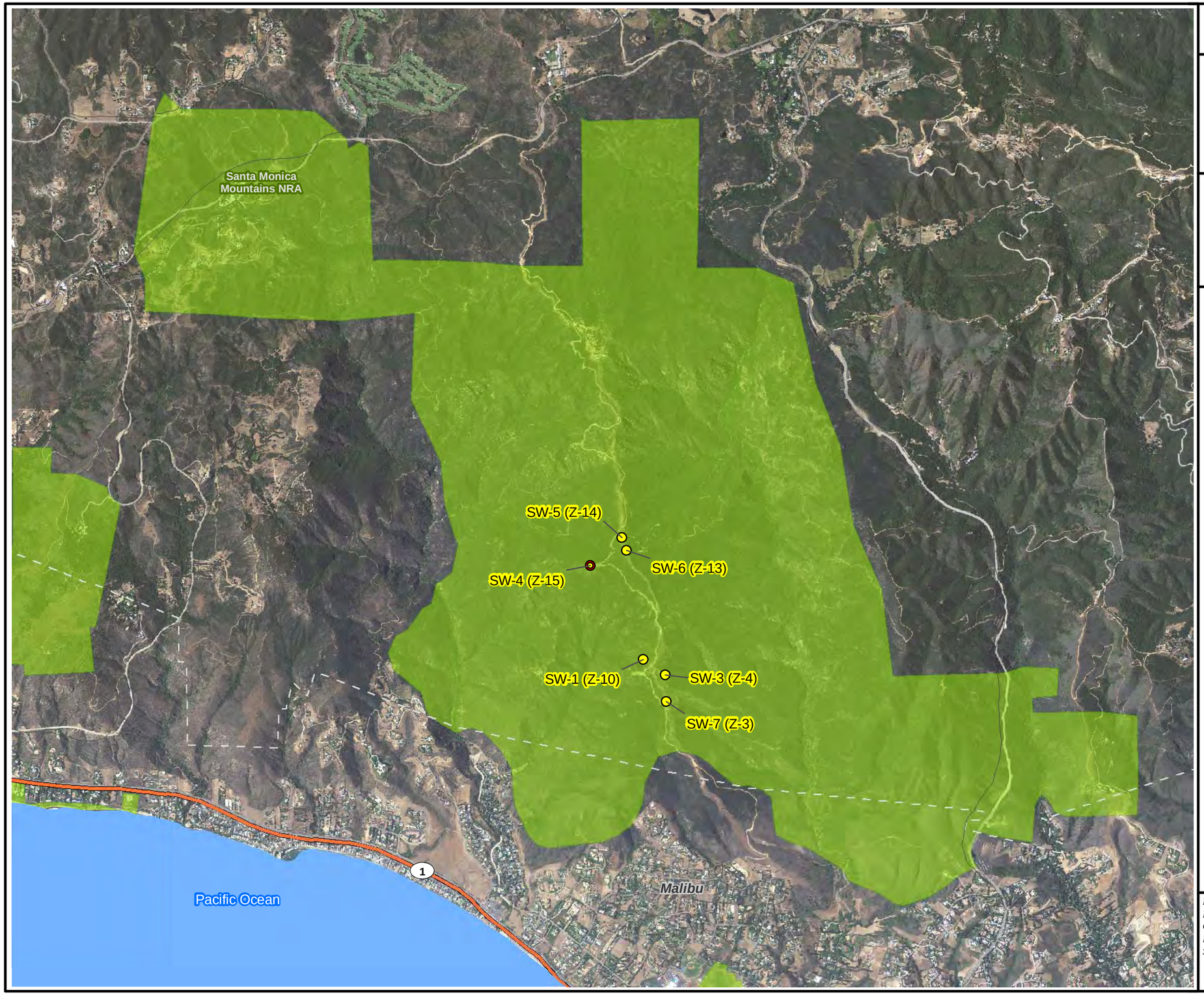
Source: NRCS, NAIP, 2009

Figure 2.1
Distance Test Locations
Southwest Region
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Distance Test Locations
- Contingency Distance Test Location
- Santa Susana Field Laboratory Property Boundary
- Parks

N

0 0.25 0.5 1

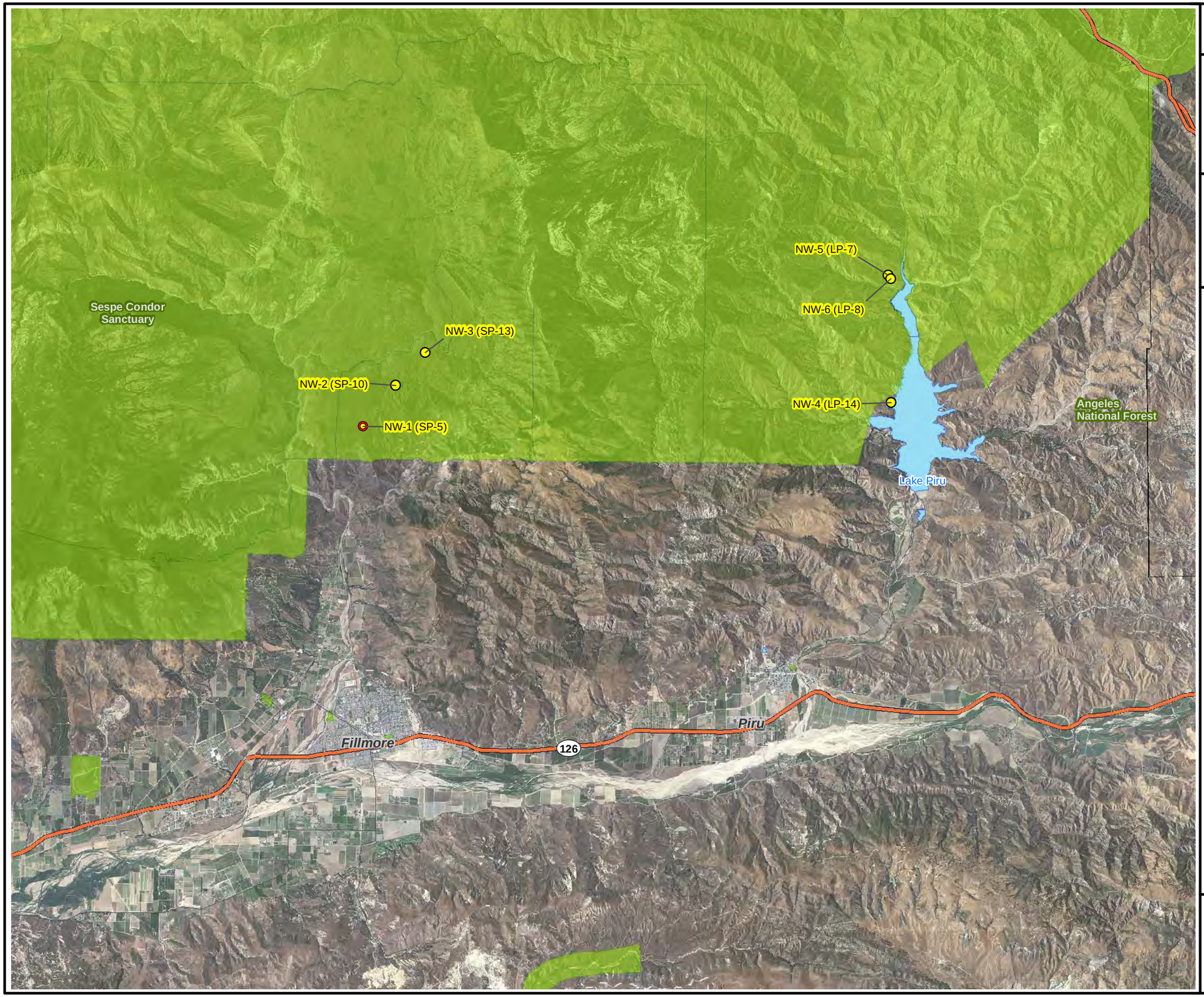
Miles

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(2_1)DTLsSW.mxd
Project: E10021
Created: CLimoges 20090914
Revised: PBillock 20100319
Source: NRCS, NAIP, 2009

HGL HydroGeoLogic, Inc

Figure 2.2
Distance Test Locations
Northwest Region
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Distance Test Locations
- Contingency Distance Test Location
- Santa Susana Field Laboratory Property Boundary
- Parks

N

0 0.5 1 2

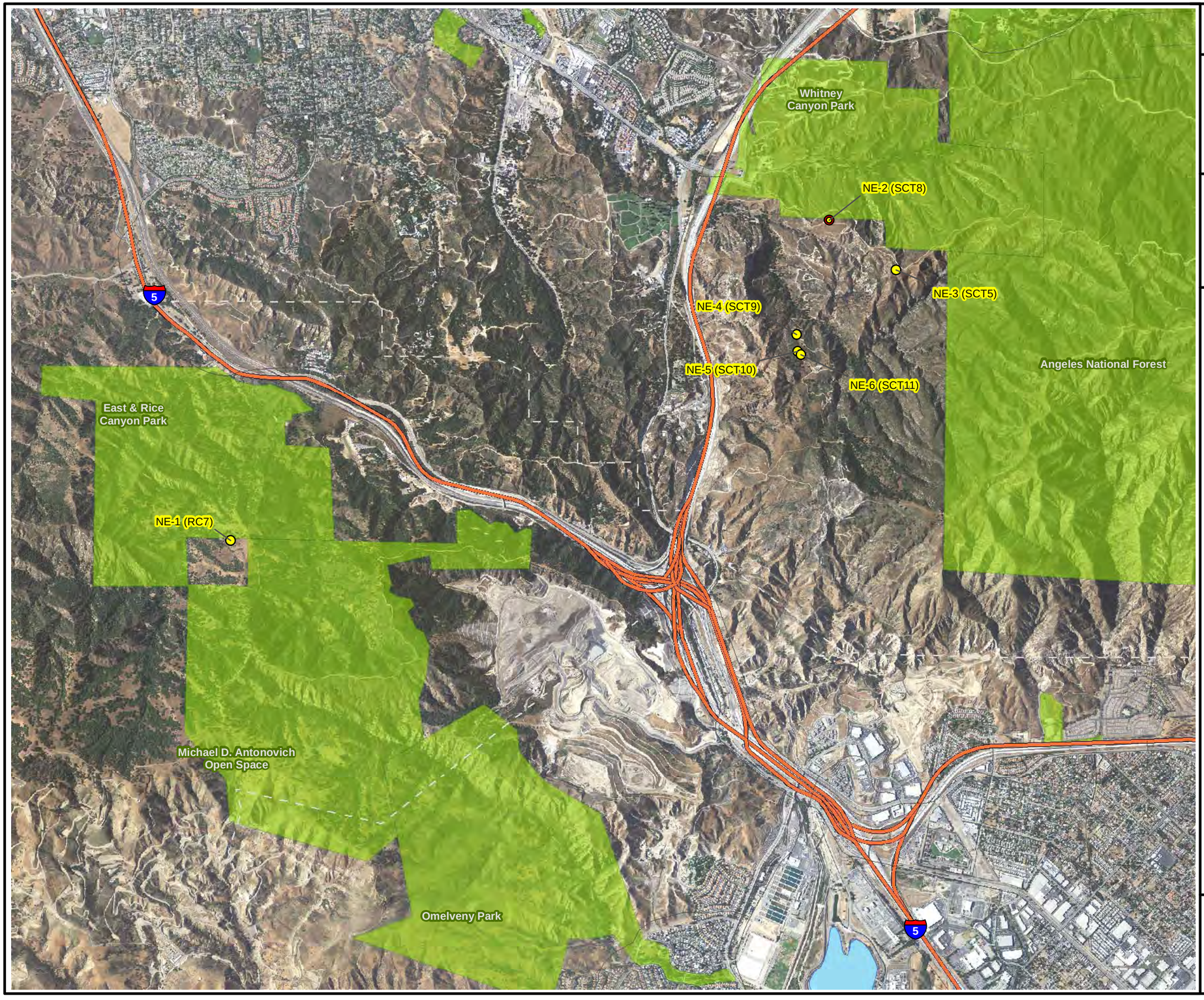
Scale In Miles

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(2_2)DTLs_NW.mxd
Project: E10021
Created: CLimoges 20090911
Revised: CLimoges
Source: NRCS, NAIP, 2009

HGL HydroGeoLogic, Inc

Figure 2.3
Distance Test Locations
Northeast Region
Santa Susana Field Laboratory

U.S. EPA Region 9



Legend

- Distance Test Locations
- Contingency Distance Test Location
- Santa Susana Field Laboratory Property Boundary
- Parks

N

0 0.25 0.5 1

Scale In Miles

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(2_3)DTLs_NE.mxd
Project: E10021
Created: CLimoges 20090911
Revised: PBillock 20100318
Source: NRCS, NAIP, 2009

HGL HydroGeoLogic, Inc

Figure 2.4
Distance Test Locations
Southeast Region
Santa Susana Field Laboratory

U.S. EPA Region 9

Legend

- Distance Test Locations
- Contingency Distance Test Location
- Santa Susana Field Laboratory Property Boundary
- Parks

N

0 0.5 1 2

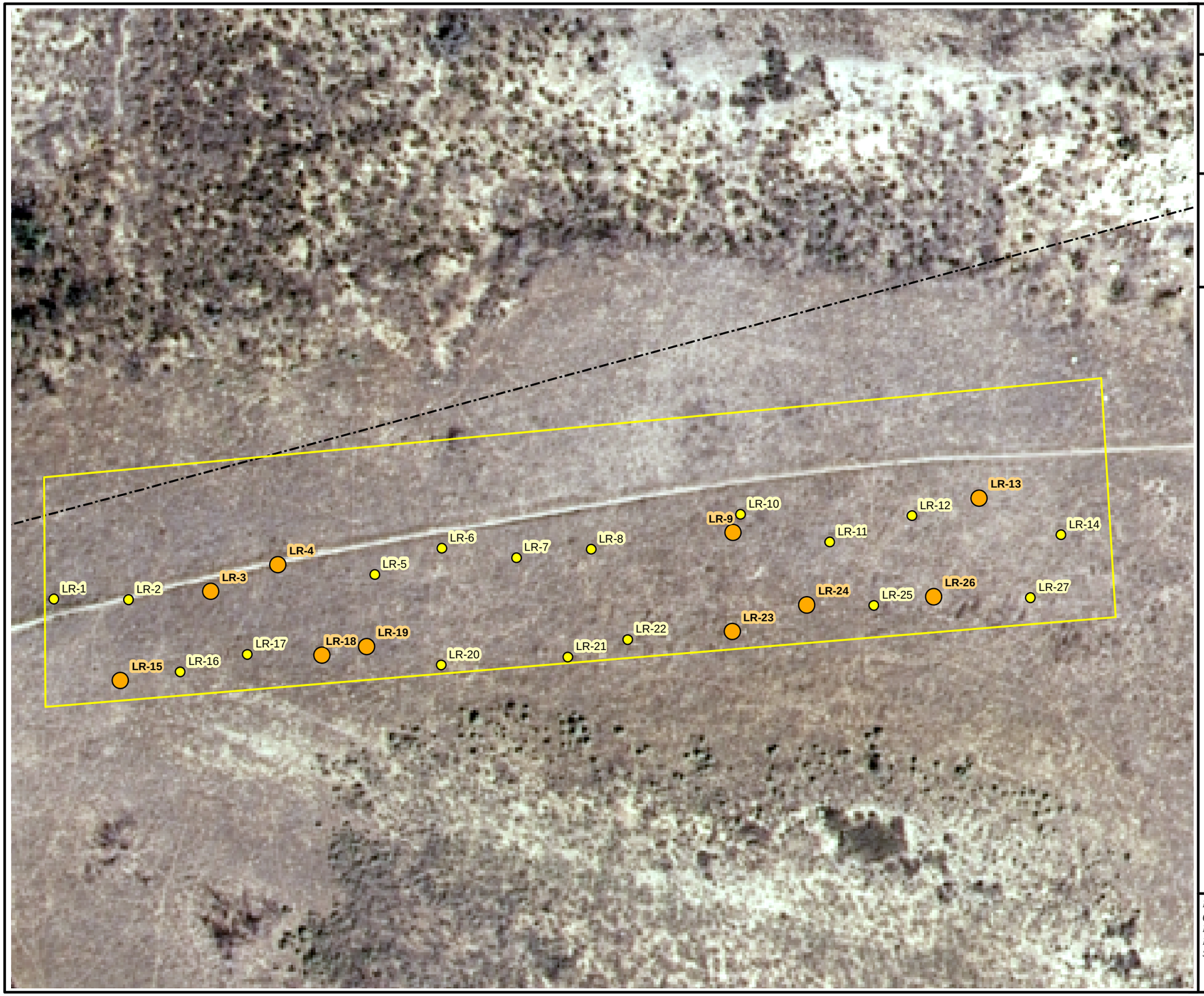
Scale In Miles

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(2_4)DTLsSE.mxd
Project: E10021
Created: CLimoges 20090914
Revised: PBillock 20100319
Source: NRCS, NAIP, 2009

HGL HydroGeoLogic, Inc

Figure 6.1
Lang Ranch
Sampling Locations

U.S. EPA Region 9



Legend

- Surface and Subsurface Soil Sample Location
- Surface Soil Sampling Location
- Lang Ranch Radiological Background Reference Area

N

0 25 50 100

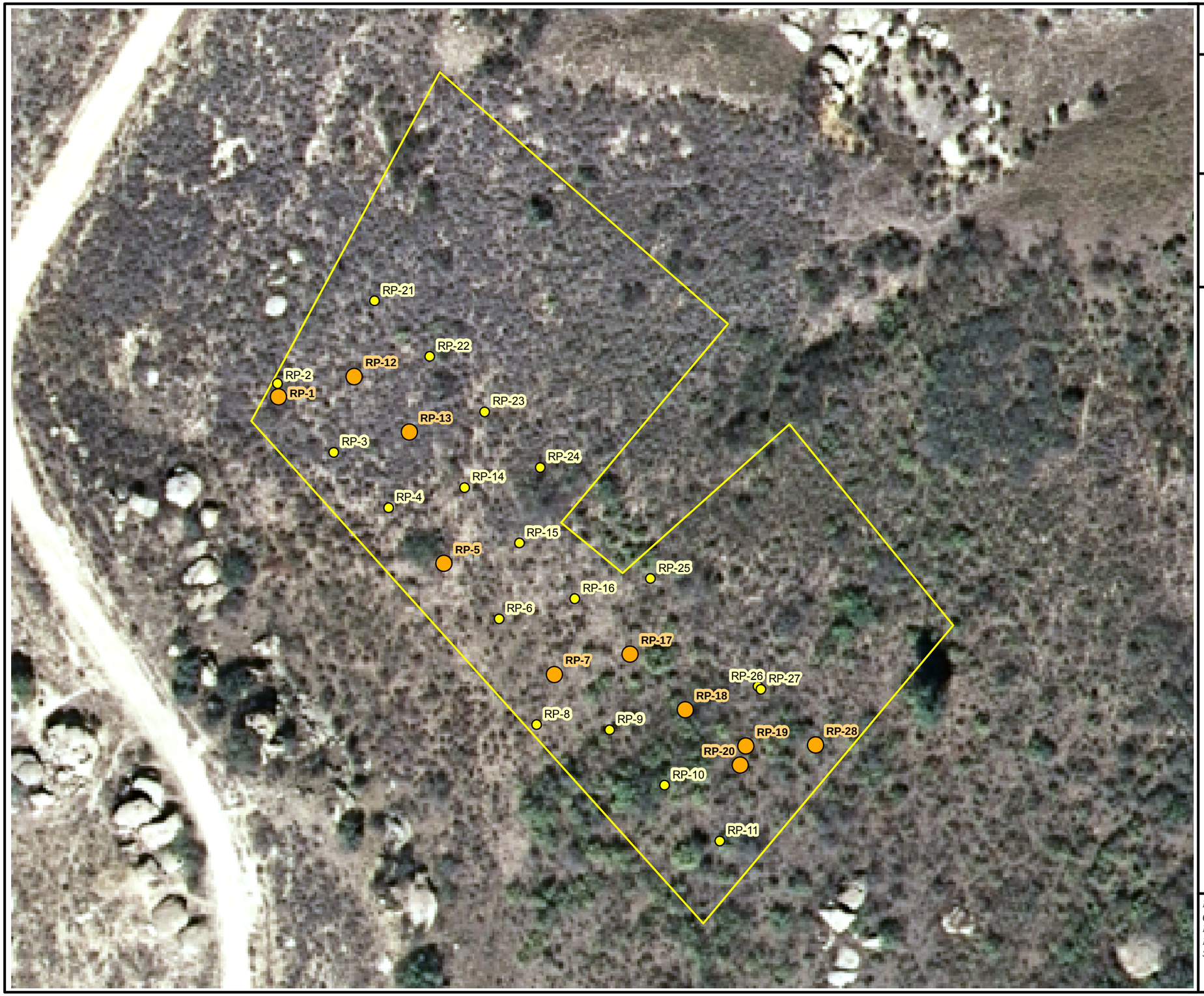
Scale In Feet

Filepath: Y:/Santa_Susana/E10021/20101006/(4)LangRanch_Map.mxd
Project: E10021
Edited: tjansen 05/19/11
Source: USGS, January 2006; September 2007

HGL HydroGeoLogic, Inc

Figure 6.2
Rocky Peak
Sampling Locations

U.S. EPA Region 9



Legend

- Surface and Subsurface Soil Sample Location
- Surface Soil Sampling Location
- Rocky Peak Radiological Background Reference Area

N

0 25 50 100

Scale In Feet

Filepath: Y:/Santa_Susana/E10021/20100308_SampleResults/(6_2)RockyPeak_Map_Closeup.mxd
Project: E10021
Edited: tjansen 05/18/11
Source: USGS, January 2006; September 2007

HGL HydroGeoLogic, Inc

HGL—Santa Susana Field Laboratory Radiological Background Study—Ventura County, California

Figure 6.3
Bridle Path
Sampling Locations

U.S. EPA Region 9

Legend

- Surface and Subsurface Soil Sample Location
- Surface Soil Sample Location
- Bridal Path Radiological Background Reference Area

N

0 25 50 100

Scale In Feet

Y:\Santa_Susana\E10021\20101006\(6)BridlePath_Map.mxd
Project: E10021
Updated: 05/18/11 TJ
Source: USGS, September 2007

HGL HydroGeoLogic, Inc

Figure 7.1 – Boxplots of Cesium-137 Activity in RBRAs and DTLs

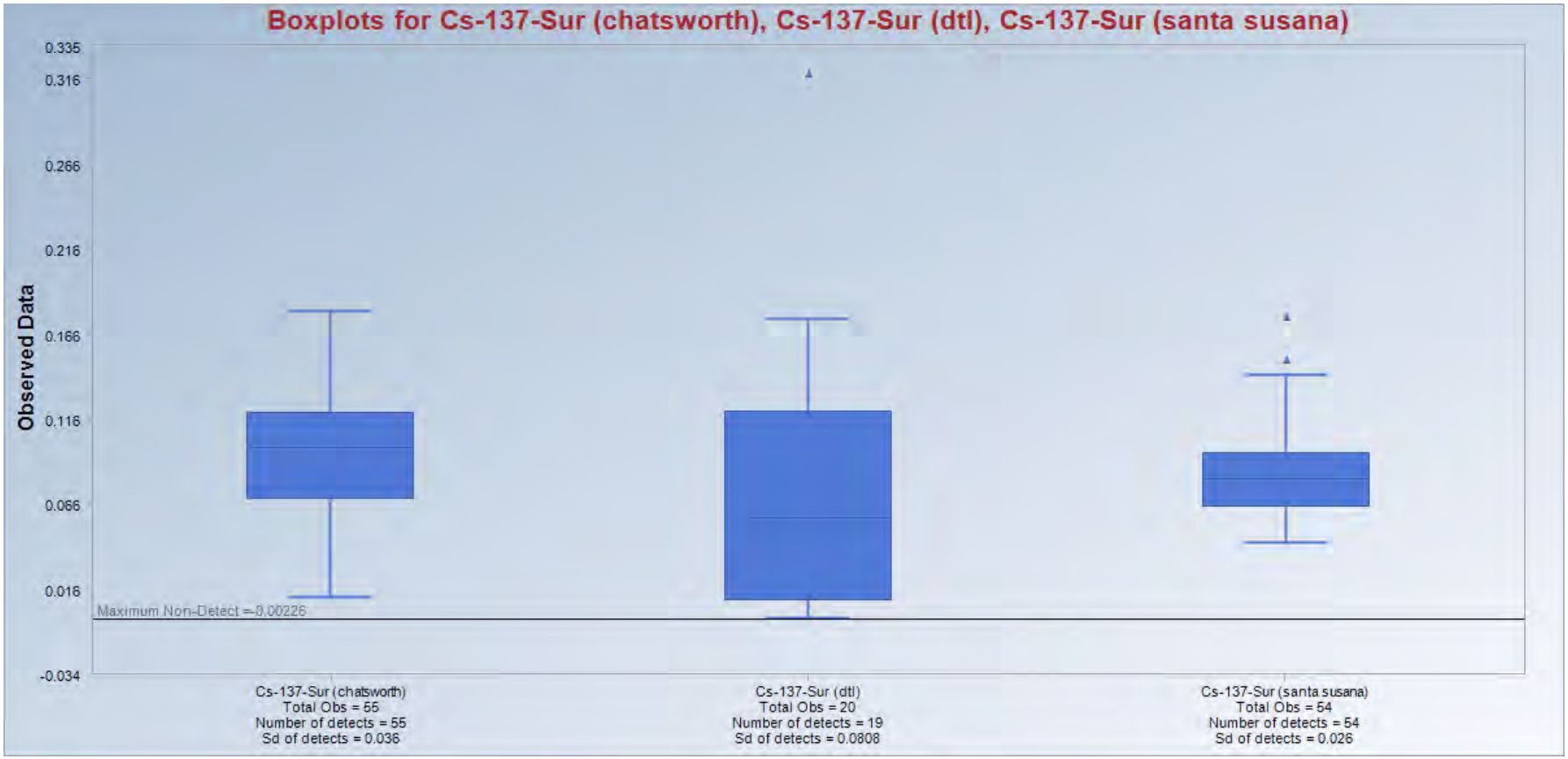


Figure 7.2 – Boxplots of Plutonium-238 Activity in RBRAs and DTLs

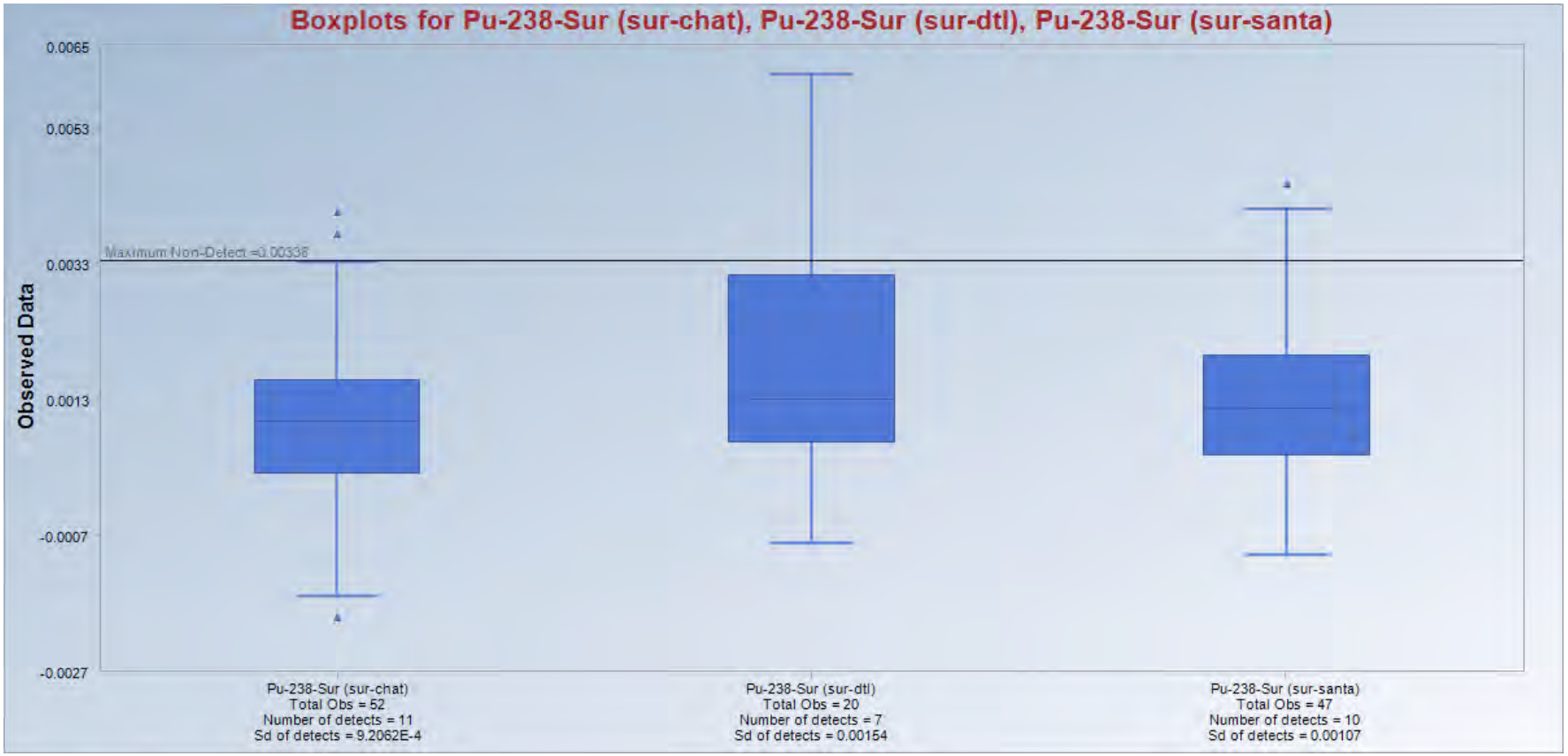


Figure 7.3 – Boxplots of Plutonium-239/240 Activity in RBRAs and DTLs

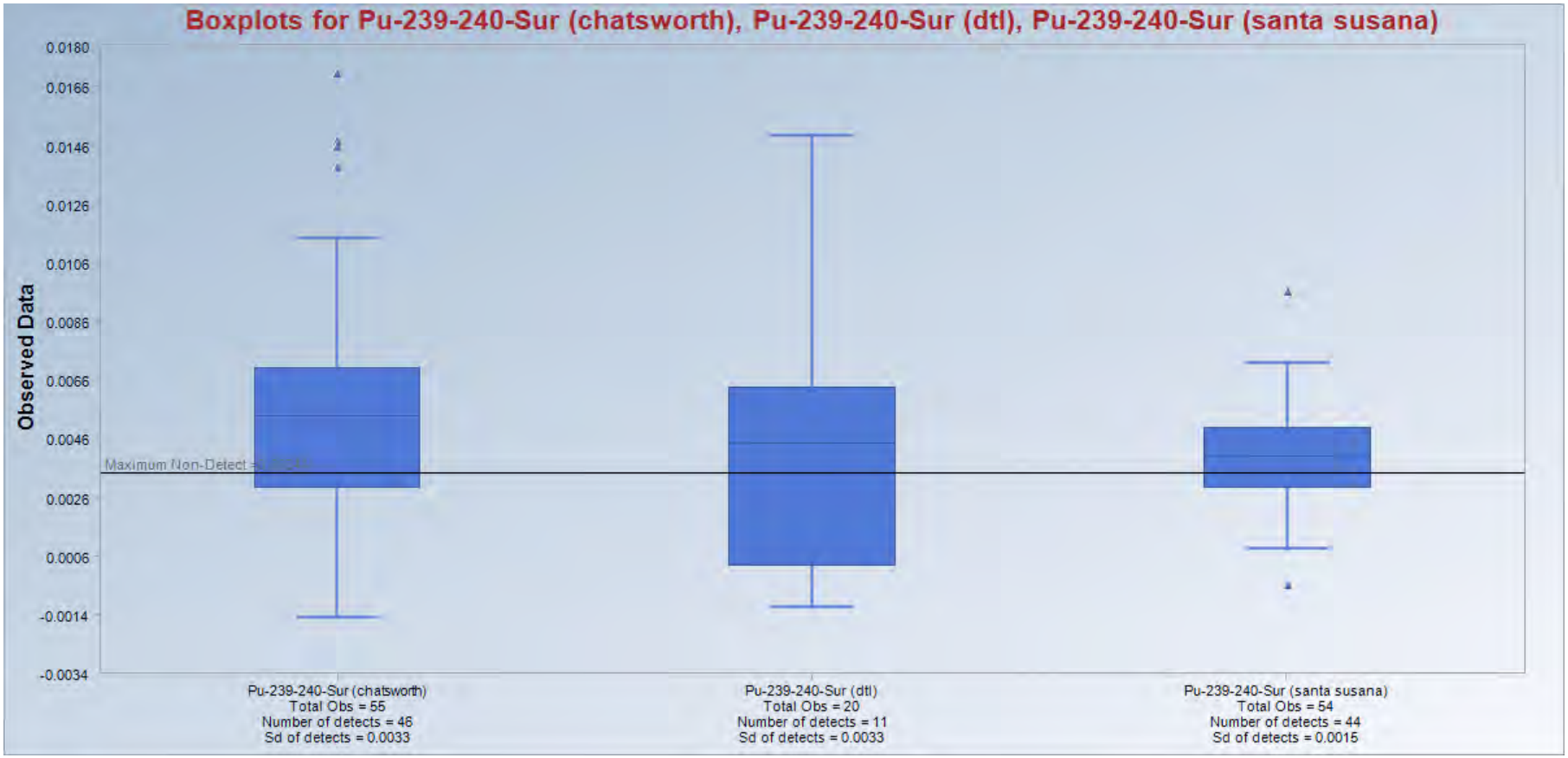


Figure 7.4 – Boxplots of Strontium-90 Activity in RBRAs and DTLs

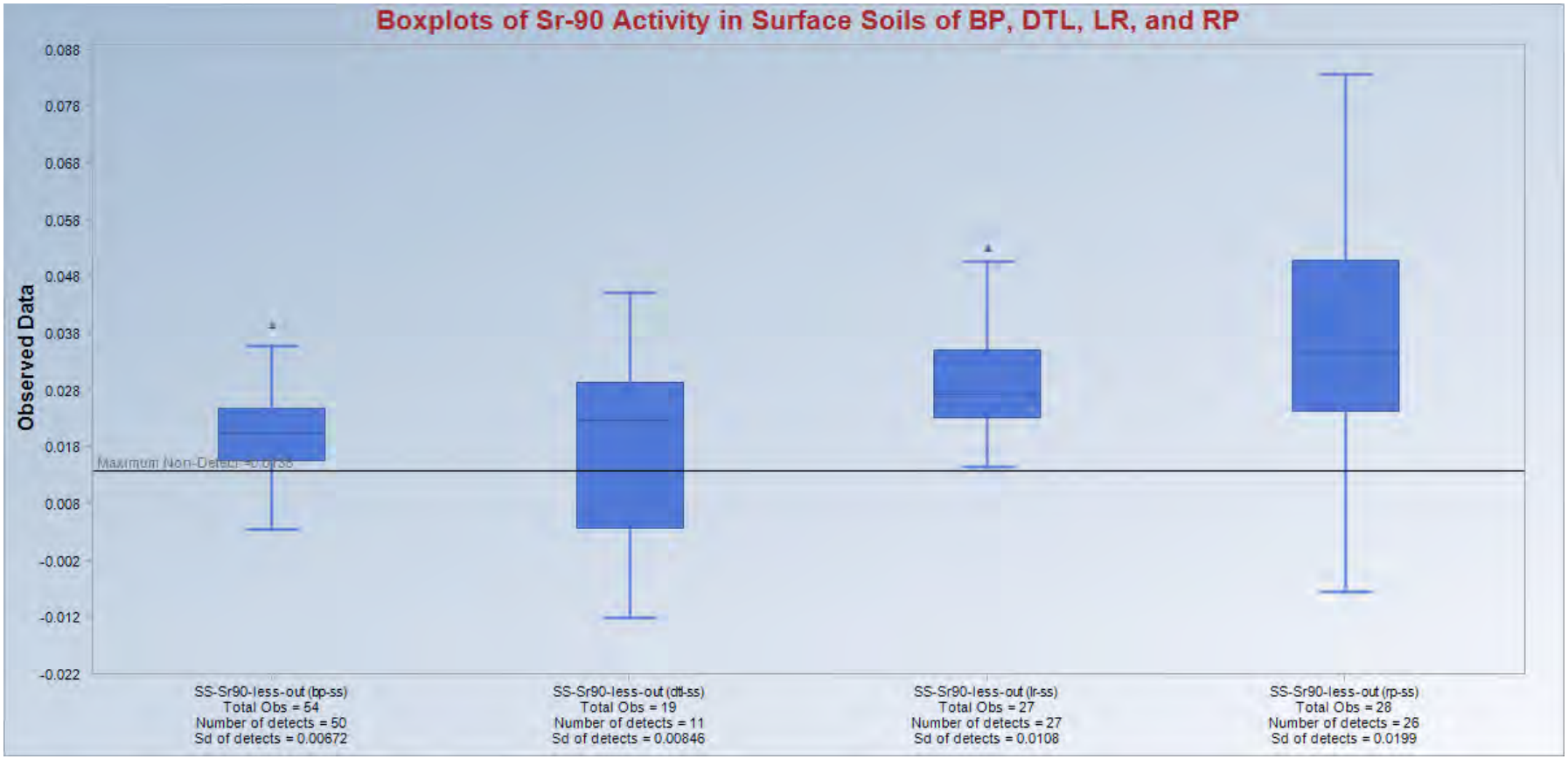


Figure 8.1
Data Plot for Plutonium-238 in <u>All Datasets</u>

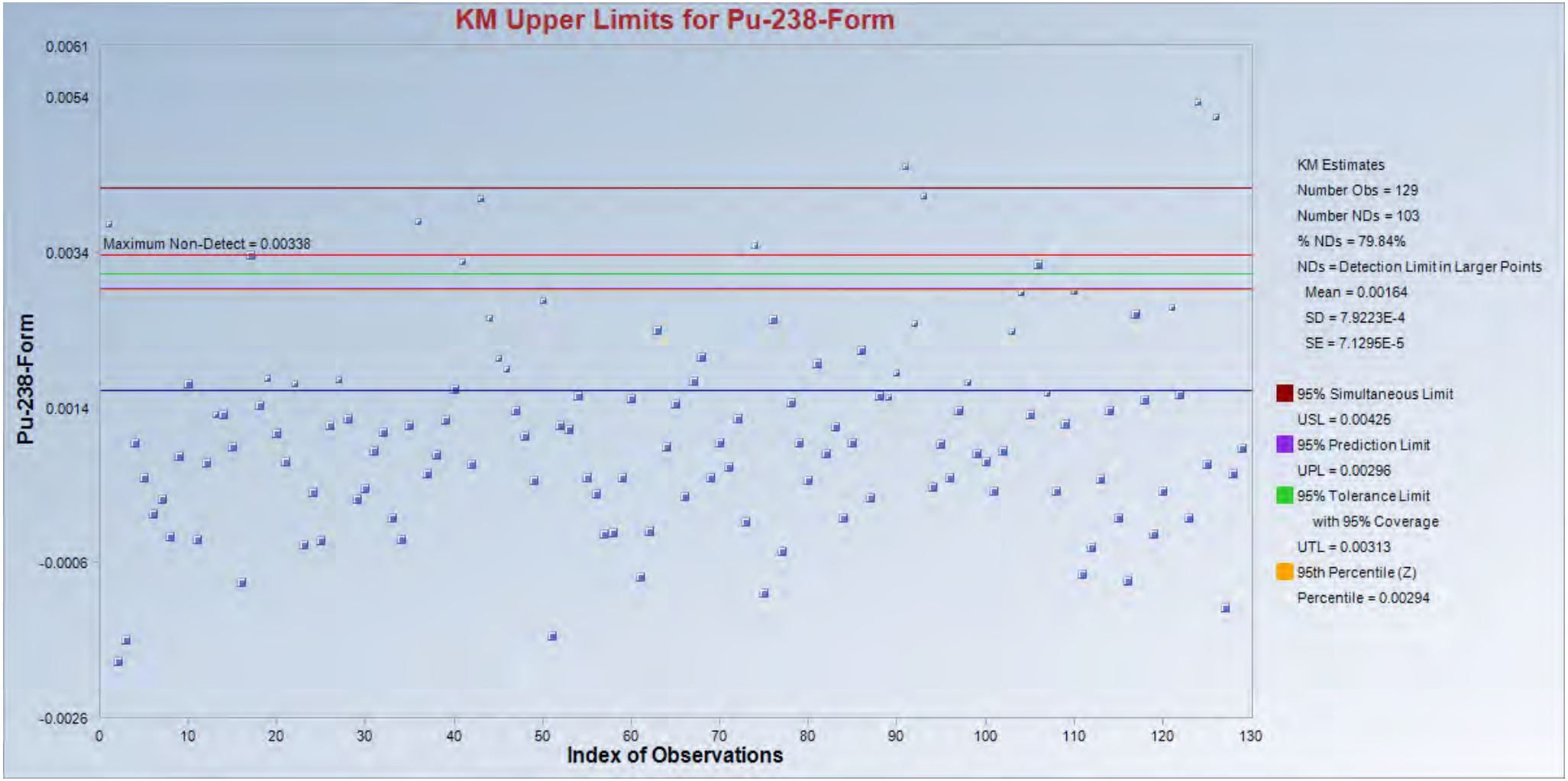


Figure 8.2
Data Plot for Strontium-90 in <u>Surface</u> Soils

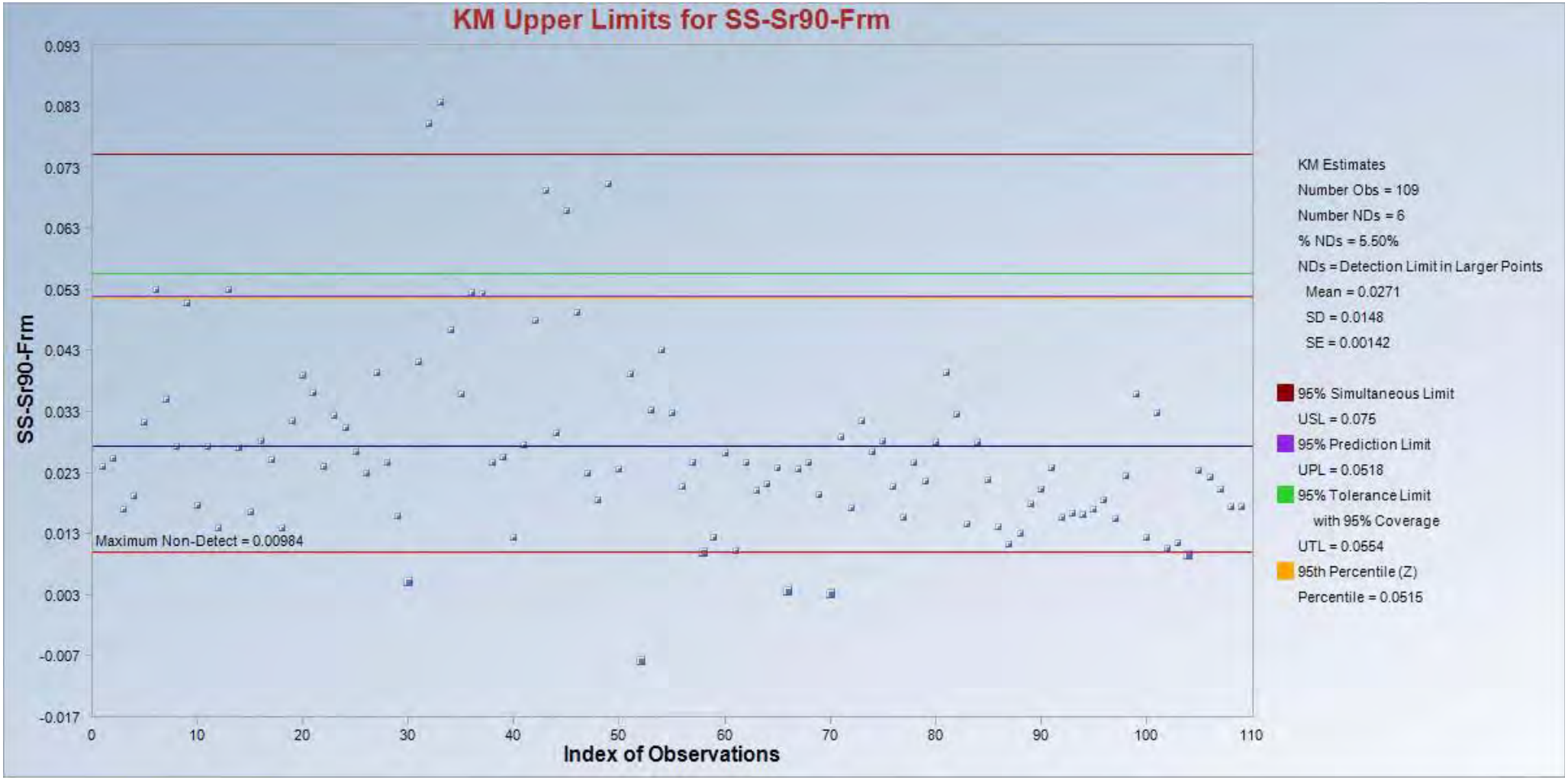


Figure 8.3
Data Plot for Strontium-90 in <u>Subsurface</u> Soils

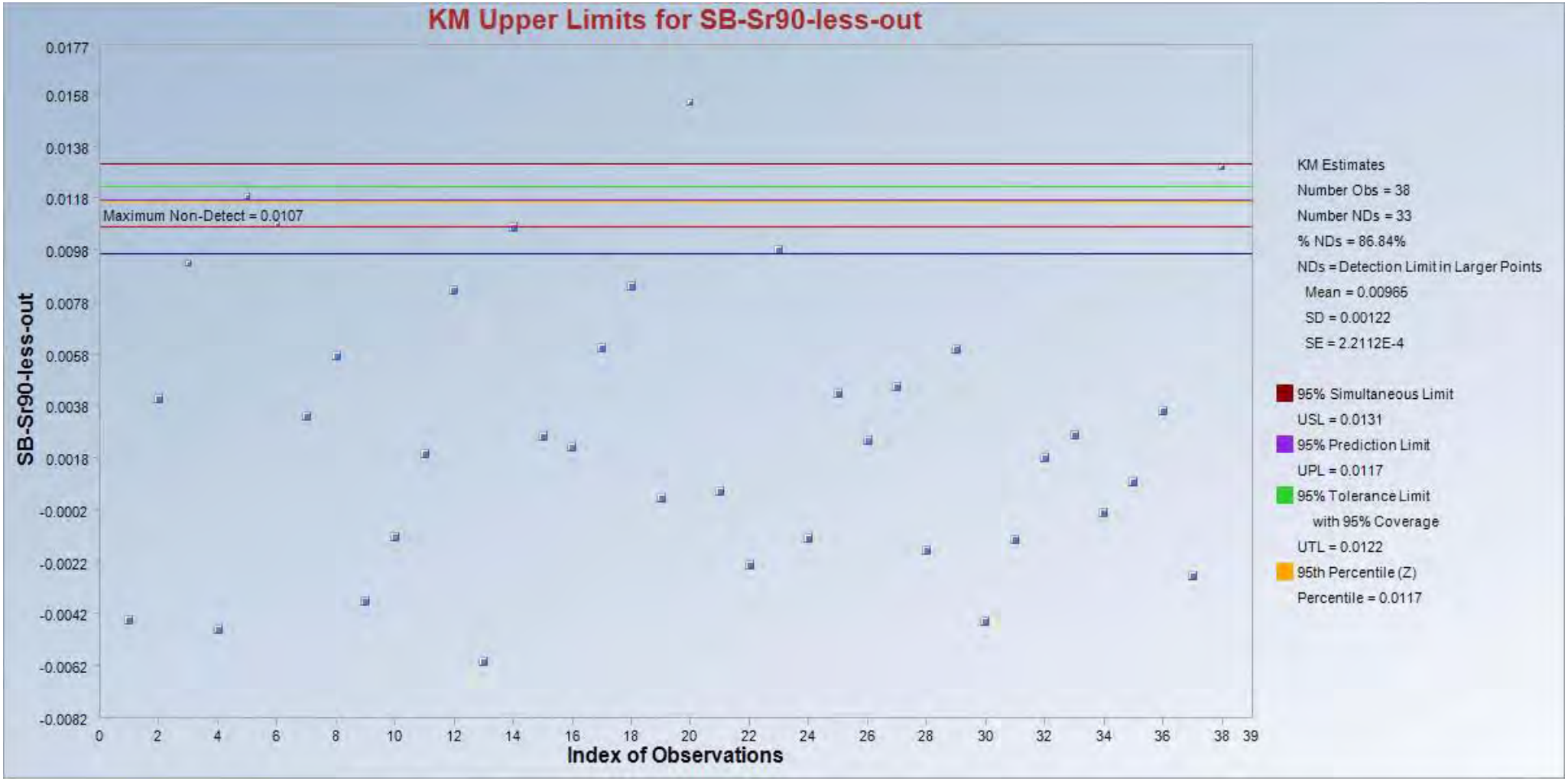


Figure 8.4
Data Plot for Thorium-232 in <u>Chatsworth Formation Soils</u>

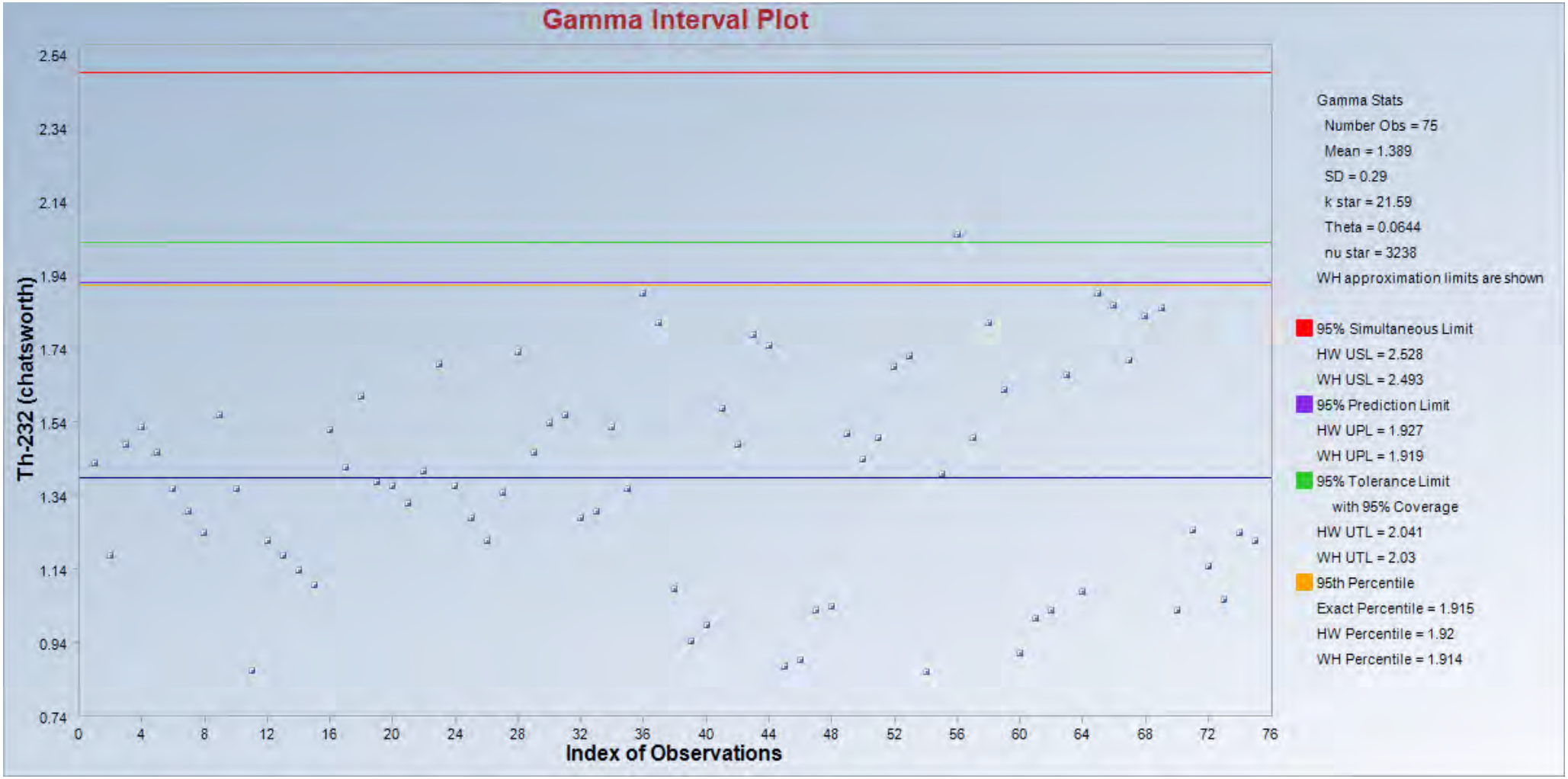


Figure 8.5
Data Plot for Thorium-232 in Santa Susana Formation Soils

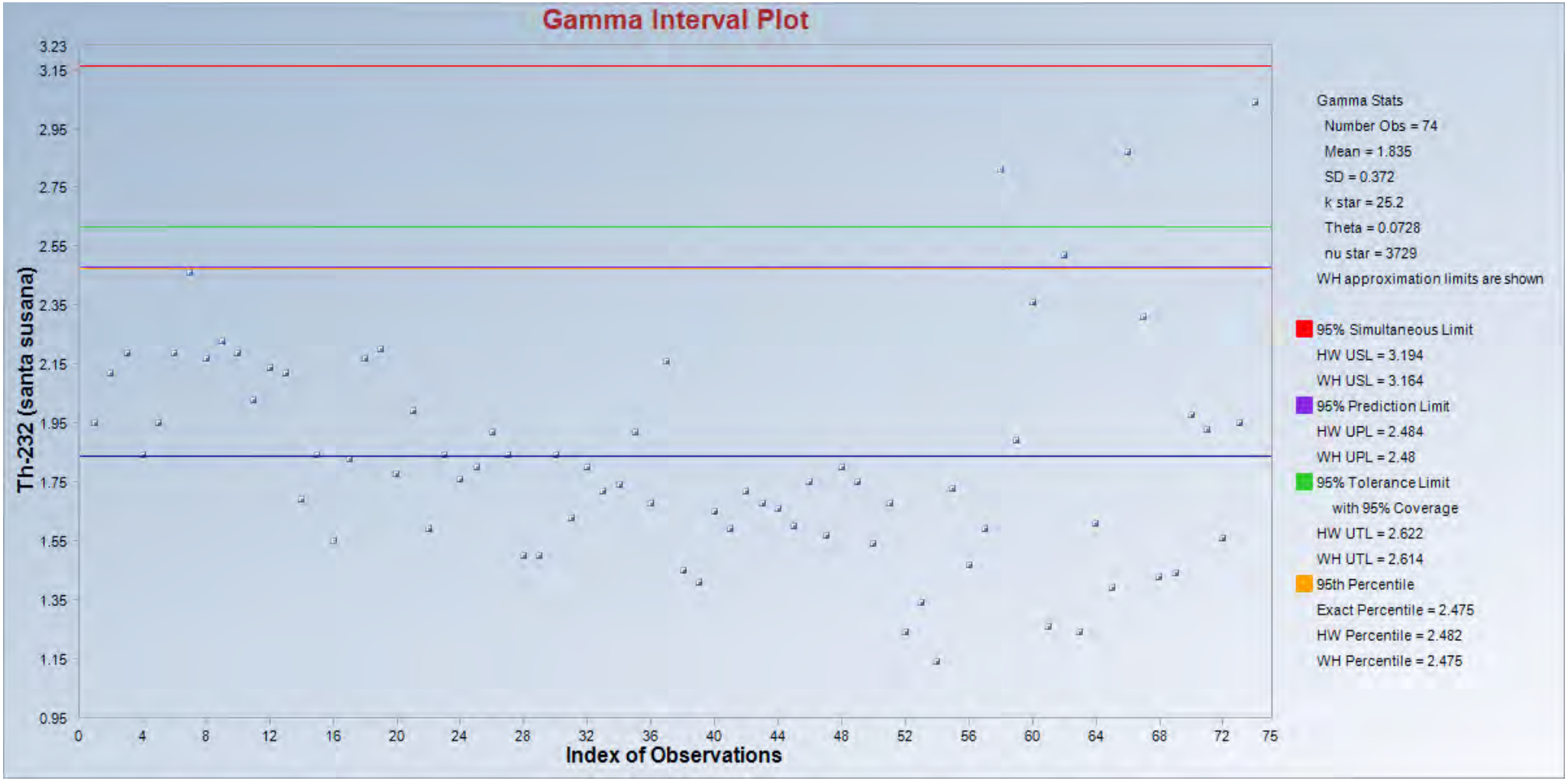


Figure 8.6
Data Plot for Radium-226 at the Lang Ranch RBRA

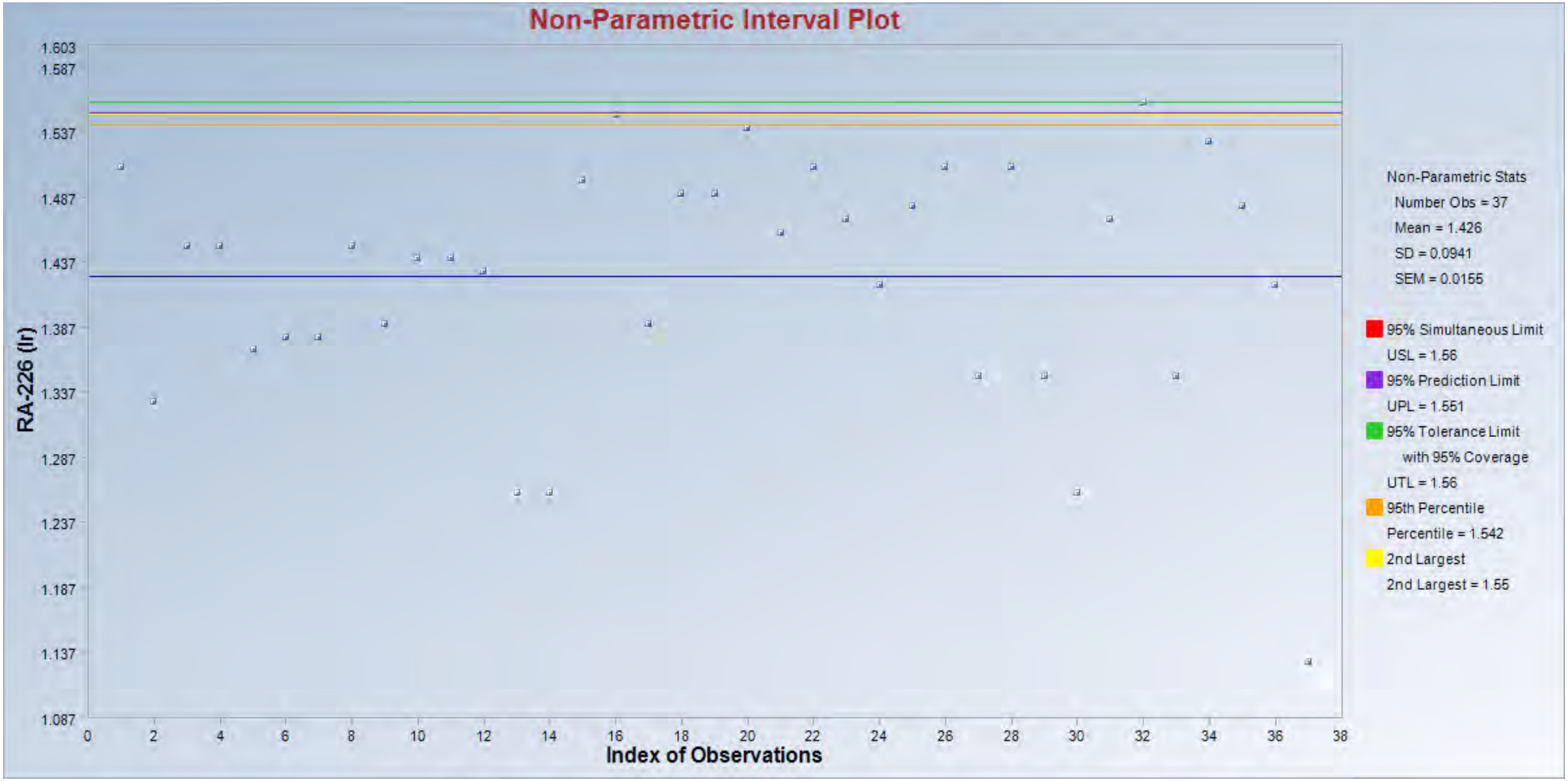


Figure 8.7
Data Plot for Radium-226 at the Rocky Peak RBRA

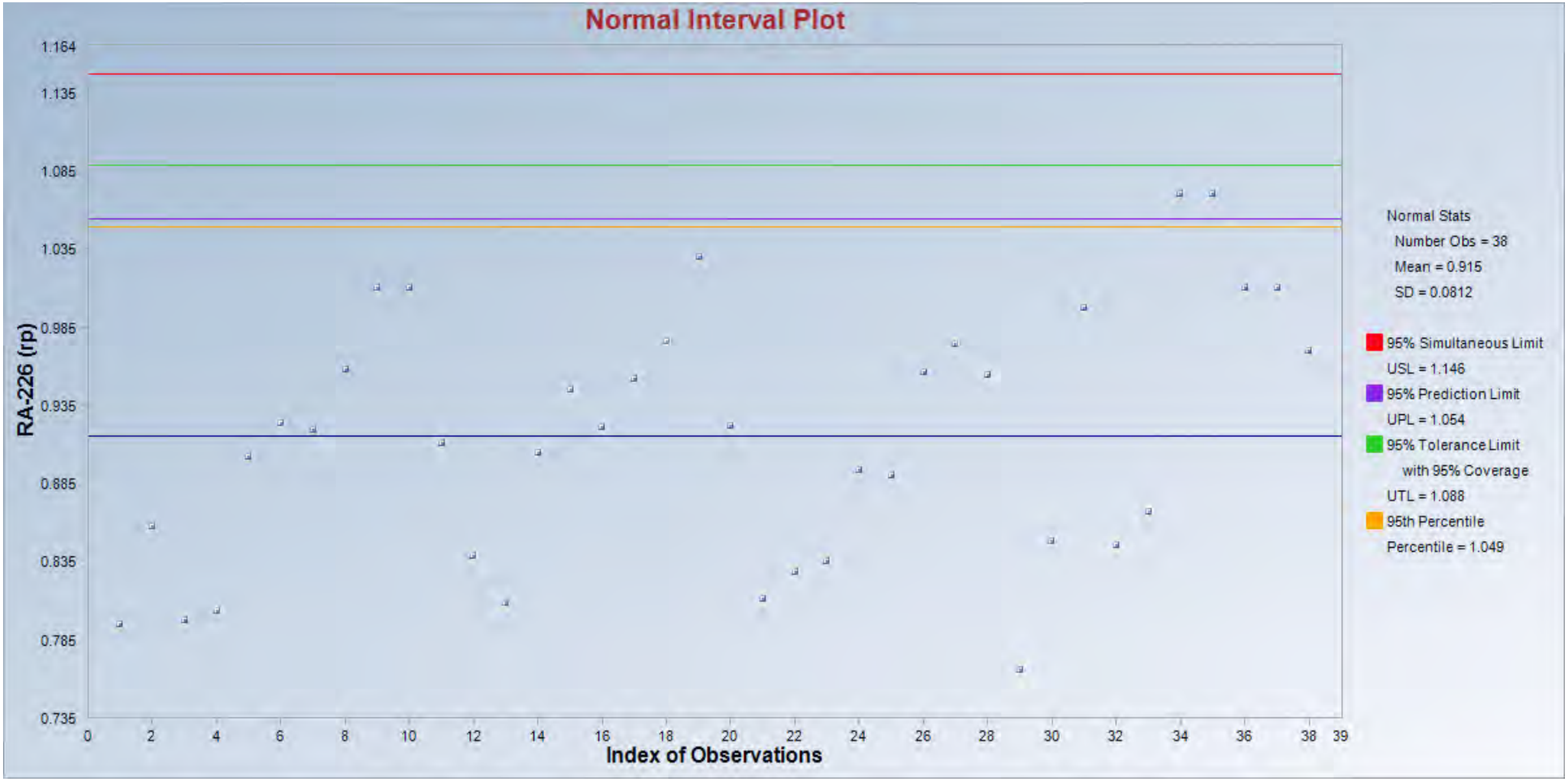


Figure 8.8
Data Plot for Radium-226 at the Bridle Path RBRA

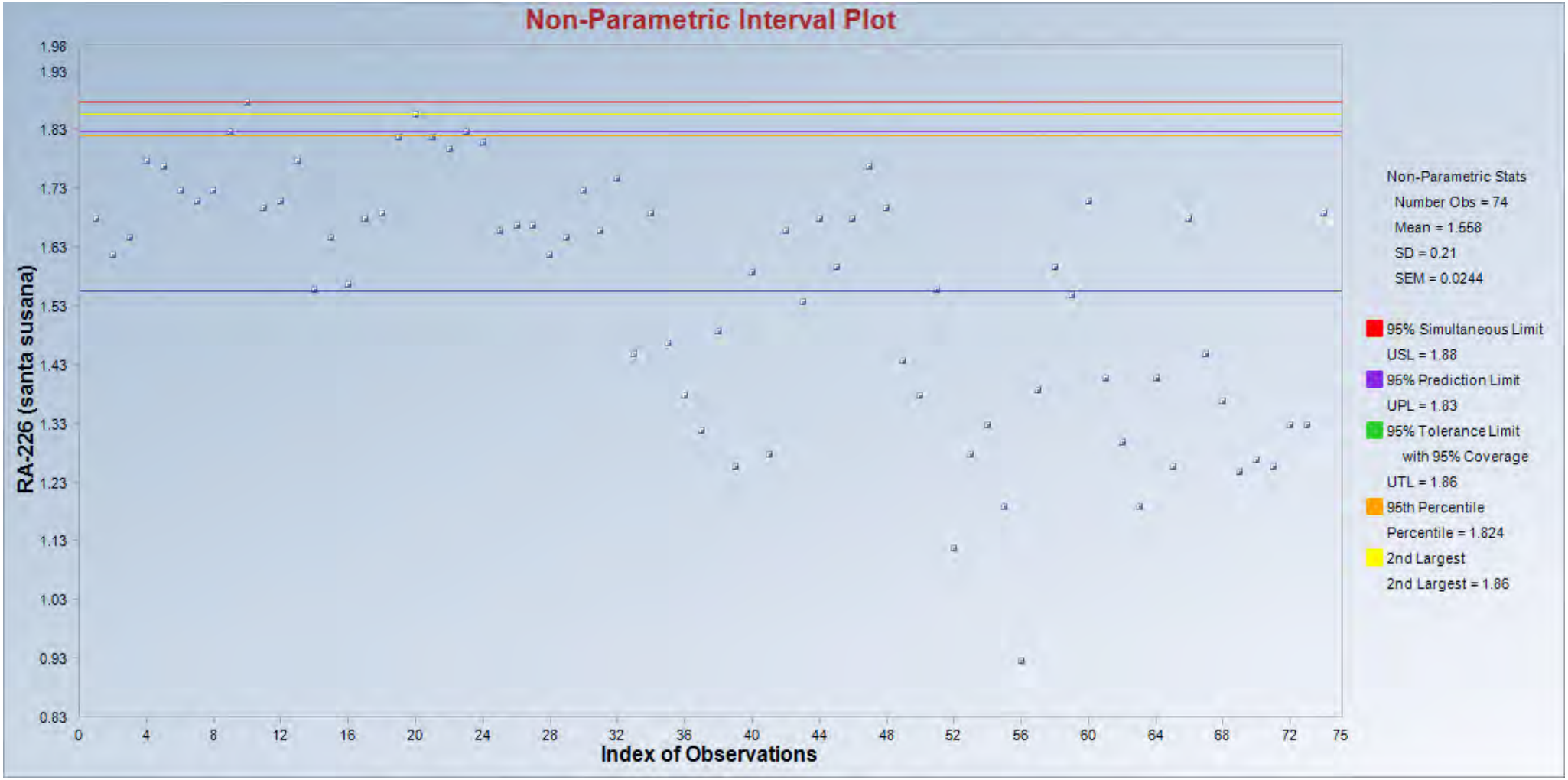
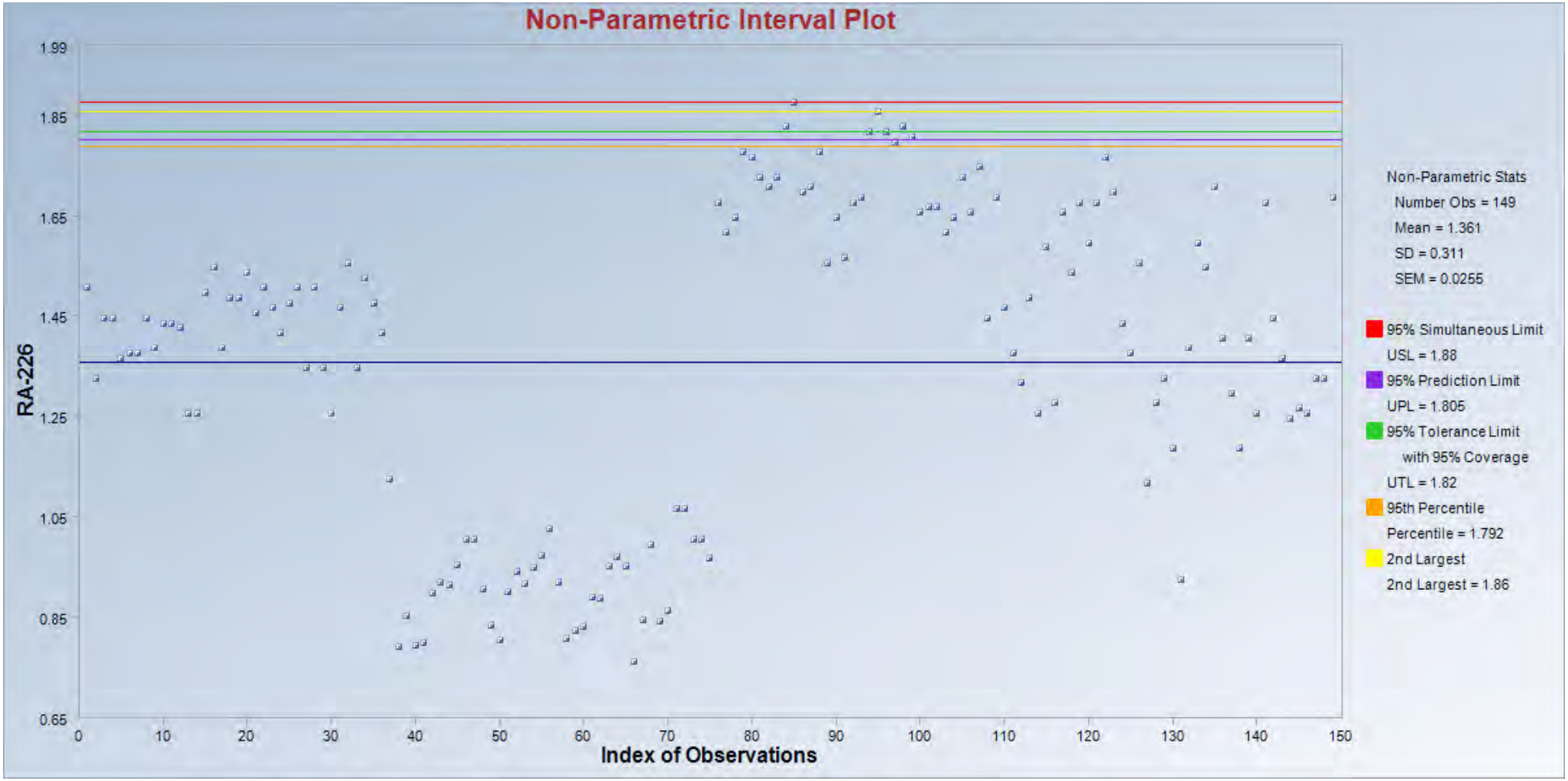


Figure 8.9
Data Plot for Radium-226 in <u>All Datasets</u>



TABLES

Section 2 Tables

Table 2.1 - DTL and RBRA Location Information

SITE ID	Location	Distance from SSFL (miles)	Latitude (degrees, minutes, seconds)	Longitude (degrees, minutes, seconds)	Elevation (feet AMSL)	Average Annual Precipitation (inches/year)
Southwest Quadrant DTLs						
Z3a	Zuma Ridge	13.9	34 02 43.45	118 49 35.74	1175	14.86
Z4	Zuma Ridge	13.8	34 02 54.42	118 49 44.58	1358	14.86
Z5a	Zuma Ridge	13.3	34 02 57.86	118 49 44.37	1330	14.86
Z9	Zuma Ridge	14.6	34 02 56.52	118 49 43.86	1309	14.57
Z10a	Zuma Ridge	14.8	34 02 55.96	118 49 48.85	1282	14.57
Z11	Zuma Ridge	14.5	34 03 06.78	118 49 42.54	1405	14.57
Z12	Zuma Ridge	14.4	34 03 23.88	118 49 58.86	1695	15.29
Z13	Zuma Ridge	14.3	34 03 25.68	118 49 52.50	1858	15.29
Z14	Zuma Ridge	14.3	34 03 29.40	118 49 52.80	1846	15.29
Z15	Zuma Ridge	13.9	34 03 23.04	118 50 04.20	1655	15.29
Northwest Quadrant DTLs						
SP5	Sespe Creek	20.5	34 28 33.48	118 55 02.88	2247	Not Available
SP9	Sespe Creek	21.3	34 28 48.30	118 54 58.74	2290	Not Available
SP10	Sespe Creek	21.3	34 29 09.30	118 54 45.06	2229	Not Available
SP11	Sespe Creek	21.7	34 29 14.22	118 54 12.60	2229	Not Available
SP13	Sespe Creek	21.7	34 29 40.26	118 54 04.98	2506	Not Available
LP7	Lake Piru	19.7	34 30 59.76	118 45 32.34	1310	18.22
LP8	Lake Piru	19.7	34 30 53.64	118 45 36.42	1217	18.22
LP9	Lake Piru	19.6	34 30 52.50	118 45 42.96	1233	18.22
LP11	Lake Piru	18.8	34 30 19.62	118 45 48.30	1340	17.96
LP14	Lake Piru	18.1	34 28 59.82	118 45 39.72	1056	17.75
Northeast Quadrant DTLs						
RC6	East and Rice Canyon	10.1	34 20 12.24	118 32 25.44	2147	19.02
RC7	East and Rice Canyon	10.0	34 20 09.42	118 32 24.00	1804	19.02
RC8	East and Rice Canyon	10.4	34 20 19.86	118 32 16.38	1619	18.30
RC9	East and Rice Canyon	10.4	34 20 26.88	118 32 22.86	1499	19.02
SCT4	Whitney Canyon Park	13.8	34 21 59.80	118 29 07.80	1514	22.87
SCT5	Whitney Canyon Park	13.4	34 21 31.30	118 29 16.50	1977	22.87
SCT8	Whitney Canyon Park	14.5	34 21 42.72	118 29 37.80	1773	21.90
SCT9	Whitney Canyon Park	13.9	34 21 12.48	118 29 47.94	1723	21.10
SCT10	Whitney Canyon Park	13.9	34 21 07.86	118 29 47.52	1819	21.10
SCT11	Whitney Canyon Park	13.8	34 21 02.94	118 29 43.74	1917	21.10
Southeast Quadrant DTLs						
SR2	Topanga State Park	11.3	34 07 17.82	118 31 42.60	1793	15.49
SR3	Topanga State Park	11.3	34 07 16.98	118 31 43.92	1788	15.49
TP2	Topanga State Park	10.2	34 06 28.86	118 34 18.72	1905	15.17
TP10	Topanga State Park	11.1	34 06 05.40	118 34 34.98	1716	14.89
TP11	Topanga State Park	11.1	34 06 12.42	118 34 25.80	1640	14.93
TP13	Topanga State Park	11.3	34 06 36.12	118 33 33.06	1986	15.19
TP14	Topanga State Park	11.3	34 06 33.72	118 33 42.42	1978	15.19
TP15	Topanga State Park	11.8	34 06 06.66	118 33 13.14	2070	14.96
TP16	Topanga State Park	11.8	34 06 10.50	118 33 13.56	2090	14.96
TP17	Topanga State Park	10.9	34 04 02.58	118 34 48.96	1398	14.56
SSFL and Radiological Background Reference Areas						
	SSFL	0.0	34 13 51.50	118 41 48.61	1894	18.96
	Bridle Path Location	5.0	34 12 36.69	118 47 49.73	1301	20.60
	Lang Ranch Location	3.5	34 12 46.59	118 46 51.12	1849	20.47
	Rocky Peak Location	5.6	34 17 28.24	118 38 14.73	2549	17.08

Notes:

SSFL - Santa Susana Field Laboratory

AMSL - above mean sea level

DTL - distance test location

Precipitation Data Sources: PRISM: http://www.prism.oregonstate.edu/index.phtml

Section 5 Tables

Table 5.1 - Gamma Radiation Walkover Survey Results

Sampling Site Name	Sampling Site Type	Collection Date	Gamma Scanning Minimum Result (cpm)	Gamma Scanning Maximum Result (cpm)	Gamma Scanning Average Result (cpm)
RBRAs					
Lang Ranch	RBRA	8/26/2009	36,000	41,000	39000
Rocky Peak	RBRA	8/31/2009	32,000	36,000	33,000 - 35,000
Bridle Path	RBRA	11/17/2009	38,000 - 40,000	44,000 - 45,000	41,000 - 42,000
Northeast Quadrant					
NE-1 (RC-7)	DTL	8/27/2009	36,000	41,000	38,000 – 39,000
NE-2 (SCT-8)	DTL	8/27/2009	Data not recorded – no anomalies detected		
NE-3 (SCT-5)	DTL	8/27/2009	25,000	30,000	27,000 – 29,000
NE-4 (SCT-9)	DTL	8/27/2009	25,000	29,000	27,000 – 28,000
NE-5 (SCT-10)	DTL	8/27/2009	24,000	27,000	25,000 – 26,000
NE-6 (SCT-11)	DTL	8/27/2009	24,000	27,000	25,000 - 26,000
Southeast Quadrant					
SE-1 (SR-2)	DTL	8/28/2009	24,000	27,500	25,000 – 26,000
SE-2 (SR-3)	DTL	8/28/2009	28,000 – 29,000	32,000	30,000 – 31,000
SE-3 (TP-11)	DTL	8/28/2009	25,000	28,000 – 29,000	26,000 – 27,000
SE-4 (TP-14)	DTL	8/28/2009	5,500	8,500	6,500 - 7,500
SE-5 (TP-17)	DTL	8/28/2009	5,400 – 6,000	7,500 – 8,000	6,500 – 7,000
SE-6 (TP-15)	DTL	8/28/2009	29,000 – 30,000	34,000	32,000 – 33,000
TP-16	DTL	8/28/2009	Southern boundary = 10,000; Northern boundary = 33,000		
Southwest Quadrant					
SW-1 (Z-10)	DTL	9/1/2009	32,000 – 35,000	45,000 – 48,000	40,000 – 44,000
SW-3 (Z-4)	DTL	9/1/2009	30,000 – 32,000	37,000 – 39,000	34,000 – 36,000
SW-4 (Z-15)	DTL	9/1/2009	30,000 – 31,000	34,000 – 35,000	32,000 – 34,000
SW-5 (Z-14)	DTL	9/1/2009	32,000 – 33,000	38,000 – 40,000	36,000 – 37,000
SW-6 (Z-13)	DTL	9/1/2009	32,000 – 34,000	37,000 – 39,000	35,000 – 36,000
SW-7 (Z-3)	DTL	9/1/2009	27,000 – 30,000	36,000 – 38,000	32,000 – 33,000
Northwest Quadrant					
NW-1 (SP-5)	DTL	9/2/2009	46,000 – 48,000	51,000 – 52,000	48,000 – 51,000
NW-2 (SP-10)	DTL	9/2/2009	41,000 – 42,000	45,000 – 46,000	43,000 – 44,000
NW-3 (SP-13)	DTL	9/2/2009	40,000 – 41,000	44,000 – 45,000	43,000 – 44,000
NW-4 (LP-14)	DTL	9/2/2009	36,000	40,000	37,500
NW-5 (LP-7)	DTL	9/2/2009	32,000	35,000	33,000
NW-6 (LP-8)	DTL	9/2/2009	30,000	32,000	31,000

Notes:

cpm = counts per minute

RBRA = Radiological Background Reference Area

DTL = Distance Test Location

Table 5.2 - Borehole Gamma Survey Results using a Ludlum Model 2221 44-2

Boring	Gross Gamma Counts at Inches and Feet Below Ground Surface																				
	+ 6 in[1]	6 in	12 in	18 in	24 in	30 in	36 in	42 in	48 in	54 in	60 in	66 in	72 in	78 in	84 in	90 in	96 in	102 in	108 in	114 in	120 in
	+ 0.5 ft [1]	0.5 ft	1 ft	1.5 ft	2 ft	2.5 ft	3 ft	3.5 ft	4 ft	4.5 ft	5 ft	5.5 ft	6 ft	6.5 ft	7 ft	7.5 ft	8 ft	8.5 ft	9 ft	9.5 ft	10 ft
Lang Ranch RBRA																					
LR-3	3252	3715	4736	5537	5816	5801	5856	5842	5732	5854	5847	5728	5773	5759	5917	5700	5760	5872	5774	5854	5858
LR-4 [2]																					
LR-9 [2]																					
LR-13 [2]																					
LR-15 [2]																					
LR-18 [2]																					
LR-19 [2]																					
LR-23 [2]																					
LR-24 [2]																					
LR-26 [2]																					
Rocky Peak RBRA																					
RP-1	3057	4285	4545	4565	4509	4749	4590	4591	4644	4623	4599	4707	4794	4747	4682	4660	4531	4606	4656	4625	4537
RP-5	3010	4056	4357	4818	4809	4894	5247	4793	4941	4775	4772	4826	4799	4801	4990	5336	5219	5264	5499	5527	
RP-7	3181	4511	4826	4873	5114	5045	5027	5061	5287	5136	5097	5275	5235	5143	5126	5149	5127	5053	5234		
RP-12	2930	3655	4314	4741	4642	4562	4748	4638	4571	4618	4662	4700	4614	4612	4420	4531	4623	4589	4642	4651	
RP-13	3074	3844	4467	4700	4711	4761	4726	4901	5017	5094	4981	5136	5082	4944	4981	5072	5177	5277	5137		
RP-17	3061	3539	4396	4721	4963	4965	5010	5169	5156	5400	5400	5323	5363	5307	5394	5300	5164	5176	5257	5425	5505
RP-18	3108	3836	4984	4891	5008	5011	5028	4933	5290	5145	5170	5218	5405	5432	5188	5487	5618	5467	6223	5408	
RP-19	2966	4048	4544	4939	5028	4924	5084	5186	5125	5136	5361	5277	5401	5290	5375	5352	5405				
RP-20	3194	4494	4808	4934	5007	5051	5161	5140	5143	5229	5113	5283	5542	5530	5605						
RP-28	3234	4441	4873	4932	5047	4868	4983	5066	5095	5091	5109	5122	5283	5261	5386	5519	5564	5592			
Bridle Path RBRA																					
BP-3	3981	4592	5682	5825	5513	4955	4692	4386	4992	4942	4919	5183	5050	5160							
BP-4	4012	5098	6058	6468	6234	5754	5256	5041	4959	4940	4962	4980	5130	5097							
BP-5	4181	4955	6419	6504	6555	5986	5424	4924	4880	4936	4917	5017	5150								
BP-9	4103	5583	6606	6851	6853	6681	6370	6193	5973	5888	6174	6251	6402								
BP-12	4001	4745	5794	6445	6588	6323	6231	6197	6289	6278	6248										
BP-13	4196	5002	6263	6467	6514	6537	6178	6014	6202	6669	6414										
BP-14	3861	4505	5477	5782	5796	5808	5403	4958	4946	4948	4749	4815	5013	5189	5339						
BP-16	3788	4654	5609	6155	6277	6439	6371	6049	5787	6149											
BP-20	3931	5284	6334	6491	6730	6134	5844	5573	5046	4779	4657	4850	5031	5160							
BP-23	4176	5584	6576	6688	6611	66469	6047	5258	5060	5117	5079	5164	5011	5139	5043	5330	5289				
BP-29	3730	4957	5527	5372	5295	5189	4923	4719	4833	4923	4894	4715	4940	5145	5316						
BP-34	4055	5411	6212	6229	5634	6406	6422	6434	6393	6581	6536										
BP-35	3975	4825	5997	6431	6540	6352	6608	6990	6934	6792	6266	5541	5762								
BP-38	3596	4852	5267	5300	5143	4919	4984	4905	4967	5183	5175	5095									
BP-43	3727	4811	5975	6245	5984	5736	5693	5596	5409	5350	5243	5319	5039	5157	5219						
BP-45	3818	4322	5325	5813	5844	5739	5427	5625	5877	6163	6123	6228									
BP-46	3910	4367	5327	5519	5309	5437	5686	5842	5624	6040	6259										
BP-48	3930	5396	6151	6213	6053	5279	5095	4940	4751	4845	4993	4960	4936								
BP-50	3897	5222	6010	6006	5981	5798	5664	5377	5080	5089											
BP-51	3619	4681	5326	5648	6232	7060	7265	7102	6748	6957	7326										

Notes:

(1) Plus sign indicates that the readings were collected 6 inches (0.5 feet) above the ground surface

(2) Borehole was too narrow for the probe to fit

in - inches

ft - feet

Table 5.3 - Borehole Gamma Survey Results using a Ludlum Model 2221 44-62

Boring	Gamma Counts at Inches and Feet Below Ground Surface																				
	+ 6 in [1]	6 in	12 in	18 in	24 in	30 in	36 in	42 in	48 in	54 in	60 in	66 in	72 in	78 in	84 in	90 in	96 in	102 in	108 in	114 in	120 in
	+ 0.5 ft [1]	0.5 ft	1 ft	1.5 ft	2 ft	2.5 ft	3 ft	3.5 ft	4 ft	4.5 ft	5 ft	5.5 ft	6 ft	6.5 ft	7 ft	7.5 ft	8 ft	8.5 ft	9 ft	9.5 ft	10 ft
Lang Ranch RBRA																					
LR-3	1586	1621	1920	2192	2410	2503	2438	2480	2481	2323	2451	2416	2428	2385	2471	2422	2342	2409	2363	2339	2403
LR-4	1577	1466	1580	1899	2253	2412	2481	2411	2547	2492	2429	2391	2465	2406	2388	2474	2452	2428	2487	2434	2451
LR-9	1496	1548	1592	1948	2334	2408	2450	2460	2373	2312	2405	2264	2339	2392							
LR-13	1492	1785	2015	2182	2223	2170	2198	2320	2369	2332	2320	2396	2307	2483	2416	2324	2343	2445	2370		
LR-15	1449	2116	2411	2516	2432	2591	2588	2496	2580	2649	2651	2619	2638	2874	2732	2787	2730	2946			
LR-18	1549	2024	2263	2359	2319	2369	2220	2290	2158	2265	2237	2288	2255	2359	2412	2455	2432	2421			
LR-19	1575	2301	2397	2460	2390	2444	2524	2369	2493	2527	2517	2492	2536	2448	2622	2618	2620	2661	2912		
LR-23	1531	2191	2246	2309	2257	2412	2578	2500	2642												
LR-24	1489	1974	2180	2224	2322	2312	2500	2449	2357	2578	2580	2471									
LR-26	1506	1813	2280	2465	2446	2493	2426	2416	2464	2499	2462	2442	2448	2490	2403	2408	2316	2382	2371	2687	2711
Rocky Peak RBRA																					
RP-1	1359	1936	1891	1882	1963	2002	1897	1897	2038	1881	1917	1934	1943	1990	1871	1948	1859	1813	1863	1994	1873
RP-5	1322	1642	1823	1888	1957	1975	1996	2011	2032	2012	2061	2030	1973	1996	2001	2071	2197	2141	2315	2376	
RP-7	1297	1851	1988	1990	1960	2106	1991	2132	2098	2066	2124	2201	2212	2105	2129	2065	2180	2130	2089		
RP-12	1387	1464	1749	1923	1868	2005	1935	1892	1999	1920	1900	1964	1886	1932	1990	1944	1955	1862	1886	1901	
RP-13	1310	1536	1861	1953	1971	1959	1979	2050	2036	2101	2088	2087	2033	2067	1992	2147	2109	2134	2191		
RP-17	1279	1446	1729	1908	2045	2096	2051	2069	2103	2014	2208	2254	2143	2265	2307	2160	2089	2200	2221	2281	2222
RP-18	1760	1552	1853	2027	2140	2050	2109	2038	2124	2120	2094	2211	2124	2180	2282	2278	2313	2332	2321	2315	
RP-19	1328	1559	1821	1979	2044	2079	2209	2123	2216	2091	2192	2099	2154	2203	2204	2322	2216				
RP-20	1316	1706	2014	1961	2017	2107	2190	2152	2112	2174	2292	2177	2264	2329	2219						
RP-28	1371	1847	1909	2026	2028	2103	2042	2006	2062	2144	2162	2156	2154	2225	2155	2254	2241	2307			
Bridle Path RBRA																					
BP-3	1665	1885	2309	2541	2248	2116	2040	1912	2054	2105	2081	2231	2135	2193							
BP-4	1848	2018	2483	2727	2581	2383	2253	2171	2088	2059	2118	2107	2122	2064							
BP-5	1809	1999	2492	2782	2688	2498	2307	2084	1985	2052	2100	2006	2143								
BP-9	1794	2233	2650	2736	2824	2863	2728	2655	2552	2394	2437	2523	2718								
BP-12	1806	2073	2506	2717	2635	2633	2534	2602	2720	2592	2633										
BP-13	1870	1981	2494	2679	2777	2854	2699	2472	2655	2749	2769										
BP-14	1700	1811	2254	2442	2442	2458	2242	2065	1971	1929	1910	2032	1974	2152	2199						
BP-16	1707	1772	2162	2477	2711	2616	2822	2530	2384	2541											
BP-20	1739	1987	2308	2643	2673	2681	2624	2521	2374	2104	2063	1995	1951	2149							
BP-23	1765	2341	2609	2743	2778	2666	2522	2289	2060	2038	2008	2142	2045	2152	2051	2275	2133				
BP-29	1657	2013	2216	2163	2162	2155	2124	2007	1996	2020	2060	1928	2106	2102	2311						
BP-34	1720	2195	2593	2674	2771	2770	2614	2678	2565	2628	2727										
BP-35	1720	1910	2409	2631	2679	2601	2618	2873	2846	2745	2662	2336	2420								
BP-38	1655	1928	2181	2194	2105	2076	2055	2064	2067	2124	2138	2139									
BP-43	1641	1970	2431	2606	2486	2490	2374	2293	2275	2328	2225	2149	2223	2072	2176						
BP-45	1628	1866	2185	2457	2381	2274	2417	2280	2462	2522	2500	2484									
BP-46	1695	1702	2183	2394	2124	2210	2412	2284	2380	2388	2625										
BP-48	1729	2270	2575	2584	2419	2331	2098	2031	2055	1966	2057	2143	2119								
BP-50	1702	1956	2406	2511	2456	2446	2341	2162	2115	2150											
BP-51	1629	1990	2272	2442	2613	2216	3016	3013	2782	2996	2996										

Notes:

(1) Plus sign indicates that the readings were collected 6 inches (0.5 feet) above the ground surface

in - inches

ft - feet

Section 6 Tables

Table 6.1 - Actinium-227 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Actinium-227	3.62E-02	U	7.22E-02	1.19E-01	8.31E-02	8.31E+00
LR-2-SUR	Actinium-227	5.09E-02	U	7.25E-02	1.19E-01	8.31E-02	8.31E+00
LR-3-SUR	Actinium-227	4.07E-02	U	7.33E-02	1.21E-01	8.31E-02	8.31E+00
LR-4-SUR	Actinium-227	8.37E-02		5.77E-02	9.34E-02	8.31E-02	8.31E+00
LR-5-SUR	Actinium-227	2.97E-02	U	7.32E-02	1.21E-01	8.31E-02	8.31E+00
LR-6-SUR	Actinium-227	-4.59E-02	U	6.54E-02	1.05E-01	8.31E-02	8.31E+00
LR-7-SUR	Actinium-227	7.83E-03	U	7.13E-02	1.18E-01	8.31E-02	8.31E+00
LR-8-SUR	Actinium-227	8.93E-02		3.54E-02	7.59E-02	8.31E-02	8.31E+00
LR-9-SUR	Actinium-227	1.74E-02	U	7.28E-02	1.20E-01	8.31E-02	8.31E+00
LR-10-SUR	Actinium-227	8.27E-03	U	7.51E-02	1.24E-01	8.31E-02	8.31E+00
LR-11-SUR	Actinium-227	8.17E-02		3.09E-02	1.24E-01	8.31E-02	8.31E+00
LR-12-SUR	Actinium-227	5.70E-02	U	5.91E-02	9.67E-02	8.31E-02	8.31E+00
LR-13-SUR	Actinium-227	1.71E-02	U	6.91E-02	1.14E-01	8.31E-02	8.31E+00
LR-14-SUR	Actinium-227	2.39E-02	U	6.78E-02	1.12E-01	8.31E-02	8.31E+00
LR-15-SUR	Actinium-227	-4.20E-04	U	7.07E-02	1.17E-01	8.31E-02	8.31E+00
LR-16-SUR	Actinium-227	-8.01E-02	UL	6.55E-02	1.07E-01	8.31E-02	8.31E+00
LR-17-SUR	Actinium-227	2.53E-02	U	6.49E-02	1.07E-01	8.31E-02	8.31E+00
LR-18-SUR	Actinium-227	1.12E-02	U	7.25E-02	1.20E-01	8.31E-02	8.31E+00
LR-19-SUR	Actinium-227	3.20E-02	U	7.60E-02	1.26E-01	8.31E-02	8.31E+00
LR-20-SUR	Actinium-227	4.19E-03	U	7.65E-02	1.27E-01	8.31E-02	8.31E+00
LR-21-SUR	Actinium-227	3.83E-02	U	7.43E-02	1.23E-01	8.31E-02	8.31E+00
LR-22-SUR	Actinium-227	5.73E-02	U	6.69E-02	1.10E-01	8.31E-02	8.31E+00
LR-23-SUR	Actinium-227	-6.64E-03	U	7.28E-02	1.21E-01	8.31E-02	8.31E+00
LR-24-SUR	Actinium-227	7.73E-02		4.00E-02	9.25E-02	8.31E-02	8.31E+00
LR-25-SUR	Actinium-227	3.46E-03	U	7.22E-02	1.20E-01	8.31E-02	8.31E+00
LR-26-SUR	Actinium-227	1.40E-02	U	1.95E-02	1.08E-01	8.31E-02	8.31E+00
LR-27-SUR	Actinium-227	6.04E-02	U	7.17E-02	1.18E-01	8.31E-02	8.31E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Actinium-227	1.59E-03	U	6.95E-02	1.15E-01	8.31E-02	8.31E+00
LR-4-SUB	Actinium-227	4.32E-02	U	6.85E-02	1.13E-01	8.31E-02	8.31E+00
LR-9-SUB	Actinium-227	2.99E-02	U	7.12E-02	1.18E-01	8.31E-02	8.31E+00
LR-13-SUB	Actinium-227	8.81E-02		3.05E-02	1.18E-01	8.31E-02	8.31E+00
LR-15-SUB	Actinium-227	1.35E-02	U	8.31E-02	1.38E-01	8.31E-02	8.31E+00
LR-18-SUB	Actinium-227	8.30E-02		3.38E-02	1.28E-01	8.31E-02	8.31E+00
LR-19-SUB	Actinium-227	-2.71E-03	U	9.40E-01	1.30E-01	8.31E-02	8.31E+00
LR-23-SUB	Actinium-227	2.88E-02	U	7.57E-02	1.25E-01	8.31E-02	8.31E+00
LR-24-SUB	Actinium-227	9.56E-02		3.83E-02	9.34E-02	8.31E-02	8.31E+00
LR-26-SUB	Actinium-227	-6.50E-02	U	7.53E-02	1.10E-01	8.31E-02	8.31E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Actinium-227	7.66E-03	U	5.97E-02	9.89E-02	8.31E-02	8.31E+00
RP-2-SUR	Actinium-227	5.35E-03	U	6.10E-02	1.01E-01	8.31E-02	8.31E+00
RP-3-SUR	Actinium-227	3.89E-02	U	5.90E-02	9.70E-02	8.31E-02	8.31E+00
RP-4-SUR	Actinium-227	6.42E-02		2.82E-02	9.92E-02	8.31E-02	8.31E+00
RP-5-SUR	Actinium-227	-1.14E-03	U	1.05E-01	1.01E-01	8.31E-02	8.31E+00
RP-6-SUR	Actinium-227	2.12E-02	U	4.47E-02	7.39E-02	8.31E-02	8.31E+00
RP-7-SUR	Actinium-227	6.72E-02		2.62E-02	1.02E-01	8.31E-02	8.31E+00
RP-8-SUR	Actinium-227	-2.48E-02	U	6.62E-02	9.19E-02	8.31E-02	8.31E+00
RP-9-SUR	Actinium-227	2.15E-03	U	5.02E-02	8.32E-02	8.31E-02	8.31E+00
RP-10-SUR	Actinium-227	7.74E-04	U	6.13E-02	1.02E-01	8.31E-02	8.31E+00
RP-11-SUR	Actinium-227	-2.08E-03	U	8.33E-02	1.04E-01	8.31E-02	8.31E+00
RP-12-SUR	Actinium-227	6.78E-02		2.64E-02	9.64E-02	8.31E-02	8.31E+00
RP-13-SUR	Actinium-227	8.81E-03	U	5.12E-02	8.48E-02	8.31E-02	8.31E+00
RP-14-SUR	Actinium-227	-3.43E-02	U	6.95E-02	9.05E-02	8.31E-02	8.31E+00
RP-15-SUR	Actinium-227	7.27E-02		2.55E-02	9.88E-02	8.31E-02	8.31E+00
RP-16-SUR	Actinium-227	-2.76E-03	U	3.25E-01	9.71E-02	8.31E-02	8.31E+00
RP-17-SUR	Actinium-227	-6.87E-03	U	1.73E-01	7.40E-02	8.31E-02	8.31E+00
RP-18-SUR	Actinium-227	-4.06E-03	U	2.70E+00	1.02E-01	8.31E-02	8.31E+00
RP-19-SUR	Actinium-227	8.26E-05	U	6.22E-02	1.03E-01	8.31E-02	8.31E+00
RP-20-SUR	Actinium-227	2.63E-03	U	6.24E-02	1.03E-01	8.31E-02	8.31E+00
RP-21-SUR	Actinium-227	-5.86E-03	U	1.03E-01	9.80E-02	8.31E-02	8.31E+00

Table 6.1 - Actinium-227 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Actinium-227	-1.66E-02	U	6.96E-02	9.49E-02	8.31E-02	8.31E+00
RP-23-SUR	Actinium-227	7.32E-02		3.00E-02	1.08E-01	8.31E-02	8.31E+00
RP-24-SUR	Actinium-227	3.69E-02	U	6.00E-02	9.88E-02	8.31E-02	8.31E+00
RP-25-SUR	Actinium-227	2.84E-02	U	6.30E-02	1.04E-01	8.31E-02	8.31E+00
RP-26-SUR	Actinium-227	4.70E-03	U	6.12E-02	1.01E-01	8.31E-02	8.31E+00
RP-27-SUR	Actinium-227	3.75E-03	U	6.40E-02	1.06E-01	8.31E-02	8.31E+00
RP-28-SUR	Actinium-227	2.65E-02	U	6.46E-02	1.07E-01	8.31E-02	8.31E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Actinium-227	1.73E-02	U	4.93E-02	8.15E-02	8.31E-02	8.31E+00
RP-5-SUB	Actinium-227	3.17E-02	U	6.39E-02	1.06E-01	8.31E-02	8.31E+00
RP-7-SUB	Actinium-227	2.68E-02	U	6.32E-02	1.04E-01	8.31E-02	8.31E+00
RP-12-SUB	Actinium-227	6.55E-02		2.96E-02	7.30E-02	8.31E-02	8.31E+00
RP-13-SUB	Actinium-227	3.69E-02	U	6.23E-02	1.03E-01	8.31E-02	8.31E+00
RP-17-SUB	Actinium-227	4.26E-02		4.12E-02	6.73E-02	8.31E-02	8.31E+00
RP-18-SUB	Actinium-227	8.23E-02		2.89E-02	1.07E-01	8.31E-02	8.31E+00
RP-19-SUB	Actinium-227	1.73E-02	U	6.28E-02	1.04E-01	8.31E-02	8.31E+00
RP-20-SUB	Actinium-227	9.24E-02		3.03E-02	1.02E-01	8.31E-02	8.31E+00
RP-28-SUB	Actinium-227	2.59E-02	U	5.44E-02	8.98E-02	8.31E-02	8.31E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Actinium-227	1.22E-03	U	7.49E-02	1.24E-01	8.31E-02	8.31E+00
BP-2-SUR	Actinium-227	1.23E-01		4.45E-02	9.02E-02	8.31E-02	8.31E+00
BP-3-SUR	Actinium-227	9.54E-02		6.78E-02	1.10E-01	8.31E-02	8.31E+00
BP-4-SUR	Actinium-227	-1.25E-03	U	2.42E-01	1.16E-01	8.31E-02	8.31E+00
BP-5-SUR	Actinium-227	1.26E-03	U	7.69E-02	1.27E-01	8.31E-02	8.31E+00
BP-6-SUR	Actinium-227	2.88E-02	U	8.07E-02	1.33E-01	8.31E-02	8.31E+00
BP-7-SUR	Actinium-227	6.25E-02	U	8.33E-02	1.37E-01	8.31E-02	8.31E+00
BP-8-SUR	Actinium-227	3.71E-03	U	7.61E-02	1.26E-01	8.31E-02	8.31E+00
BP-9-SUR	Actinium-227	4.31E-02	U	8.09E-02	1.33E-01	8.31E-02	8.31E+00
BP-10-SUR	Actinium-227	2.42E-03	U	8.06E-02	1.33E-01	8.31E-02	8.31E+00
BP-11-SUR	Actinium-227	5.59E-03	U	7.93E-02	1.31E-01	8.31E-02	8.31E+00
BP-12-SUR	Actinium-227	6.35E-02		5.91E-02	9.65E-02	8.31E-02	8.31E+00
BP-13-SUR	Actinium-227	-2.02E-02	U	2.17E-01	1.32E-01	8.31E-02	8.31E+00
BP-14-SUR	Actinium-227	-9.73E-03	U	7.47E-02	1.24E-01	8.31E-02	8.31E+00
BP-15-SUR	Actinium-227	1.21E-02	U	7.77E-02	1.29E-01	8.31E-02	8.31E+00
BP-16-SUR	Actinium-227	1.30E-02	U	7.76E-02	1.28E-01	8.31E-02	8.31E+00
BP-17-SUR	Actinium-227	5.05E-02	U	7.72E-02	1.27E-01	8.31E-02	8.31E+00
BP-18-SUR	Actinium-227	-1.89E-03	U	7.77E-02	1.29E-01	8.31E-02	8.31E+00
BP-19-SUR	Actinium-227	-4.41E-04	U	6.00E-02	9.96E-02	8.31E-02	8.31E+00
BP-20-SUR	Actinium-227	2.27E-03	U	7.58E-02	1.26E-01	8.31E-02	8.31E+00
BP-21-SUR	Actinium-227	9.13E-02		5.53E-02	8.91E-02	8.31E-02	8.31E+00
BP-22-SUR	Actinium-227	1.24E-01		4.42E-02	1.08E-01	8.31E-02	8.31E+00
BP-23-SUR	Actinium-227	1.10E-01		6.92E-02	9.17E-02	8.31E-02	8.31E+00
BP-24-SUR	Actinium-227	1.32E-02	U	8.36E-02	1.38E-01	8.31E-02	8.31E+00
BP-25-SUR	Actinium-227	3.78E-02	U	8.18E-02	1.35E-01	8.31E-02	8.31E+00
BP-26-SUR	Actinium-227	9.73E-02		3.74E-02	1.02E-01	8.31E-02	8.31E+00
BP-27-SUR	Actinium-227	1.27E-02	U	7.76E-02	1.28E-01	8.31E-02	8.31E+00
BP-28-SUR	Actinium-227	1.43E-02	U	7.85E-02	1.30E-01	8.31E-02	8.31E+00
BP-29-SUR	Actinium-227	4.09E-02	U	7.70E-02	1.27E-01	8.31E-02	8.31E+00
BP-30-SUR	Actinium-227	8.03E-03	U	7.96E-02	1.32E-01	8.31E-02	8.31E+00
BP-31-SUR	Actinium-227	2.16E-03	U	7.28E-02	1.21E-01	8.31E-02	8.31E+00
BP-32-SUR	Actinium-227	4.96E-02	U	8.06E-02	1.33E-01	8.31E-02	8.31E+00
BP-33-SUR	Actinium-227	1.76E-03	U	8.18E-02	1.35E-01	8.31E-02	8.31E+00
BP-34-SUR	Actinium-227	9.32E-02		4.30E-02	1.07E-01	8.31E-02	8.31E+00
BP-35-SUR	Actinium-227	1.19E-01		4.17E-02	9.49E-02	8.31E-02	8.31E+00
BP-36-SUR	Actinium-227	3.52E-02	U	7.74E-02	1.28E-01	8.31E-02	8.31E+00
BP-37-SUR	Actinium-227	3.95E-02	U	7.62E-02	1.26E-01	8.31E-02	8.31E+00
BP-38-SUR	Actinium-227	9.48E-02		3.60E-02	1.23E-01	8.31E-02	8.31E+00
BP-39-SUR	Actinium-227	-2.74E-04	U	6.28E-02	1.04E-01	8.31E-02	8.31E+00
BP-40-SUR	Actinium-227	3.22E-02	U	7.55E-02	1.25E-01	8.31E-02	8.31E+00
BP-41-SUR	Actinium-227	1.02E-01		4.14E-02	9.99E-02	8.31E-02	8.31E+00
BP-42-SUR	Actinium-227	-4.10E-03	U	5.14E-01	1.24E-01	8.31E-02	8.31E+00

Table 6.1 - Actinium-227 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Actinium-227	-1.31E-03	U	3.76E-01	1.26E-01	8.31E-02	8.31E+00
BP-44-SUR	Actinium-227	1.05E-01		3.44E-02	1.26E-01	8.31E-02	8.31E+00
BP-45-SUR	Actinium-227	7.91E-02		3.72E-02	8.84E-02	8.31E-02	8.31E+00
BP-46-SUR	Actinium-227	1.02E-03	U	7.49E-02	1.24E-01	8.31E-02	8.31E+00
BP-47-SUR	Actinium-227	1.00E-01		5.46E-02	8.80E-02	8.31E-02	8.31E+00
BP-48-SUR	Actinium-227	1.21E-01		3.83E-02	1.34E-01	8.31E-02	8.31E+00
BP-49-SUR	Actinium-227	7.13E-02		2.87E-02	1.09E-01	8.31E-02	8.31E+00
BP-50-SUR	Actinium-227	1.78E-02	U	7.72E-02	1.28E-01	8.31E-02	8.31E+00
BP-51-SUR	Actinium-227	3.57E-02	U	6.37E-02	1.05E-01	8.31E-02	8.31E+00
BP-52-SUR	Actinium-227	3.16E-02	U	6.20E-02	1.02E-01	8.31E-02	8.31E+00
BP-53-SUR	Actinium-227	3.53E-02	U	7.55E-02	1.25E-01	8.31E-02	8.31E+00
BP-54-SUR	Actinium-227	5.23E-02		5.06E-02	8.29E-02	8.31E-02	8.31E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Actinium-227	8.41E-02		3.08E-02	1.01E-01	8.31E-02	8.31E+00
BP-4-SUB	Actinium-227	4.14E-02	U	7.17E-02	1.18E-01	8.31E-02	8.31E+00
BP-5-SUB	Actinium-227	9.06E-04	U	6.16E-02	1.02E-01	8.31E-02	8.31E+00
BP-9-SUB	Actinium-227	5.31E-02	U	5.46E-02	8.94E-02	8.31E-02	8.31E+00
BP-12-SUB	Actinium-227	1.22E-02	U	7.30E-02	1.21E-01	8.31E-02	8.31E+00
BP-13-SUB	Actinium-227	8.01E-02		3.74E-02	9.16E-02	8.31E-02	8.31E+00
BP-14-SUB	Actinium-227	3.39E-02	U	7.30E-02	1.21E-01	8.31E-02	8.31E+00
BP-16-SUB	Actinium-227	7.80E-02		3.06E-02	7.86E-02	8.31E-02	8.31E+00
BP-20-SUB	Actinium-227	-3.38E-02	U	6.73E-02	1.09E-01	8.31E-02	8.31E+00
BP-23-SUB	Actinium-227	9.53E-02		3.41E-02	7.78E-02	8.31E-02	8.31E+00
BP-29-SUB	Actinium-227	6.78E-02	U	8.43E-01	1.55E+00	8.31E-02	8.31E+00
BP-34-SUB	Actinium-227	4.38E-02	U	7.94E-02	1.31E-01	8.31E-02	8.31E+00
BP-35-SUB	Actinium-227	-2.23E-02	U	6.46E-02	1.07E-01	8.31E-02	8.31E+00
BP-38-SUB	Actinium-227	8.08E-02		6.88E-02	1.12E-01	8.31E-02	8.31E+00
BP-43-SUB	Actinium-227	-3.43E-04	U	1.70E-01	1.23E-01	8.31E-02	8.31E+00
BP-45-SUB	Actinium-227	-4.72E-03	U	9.48E-01	1.15E-01	8.31E-02	8.31E+00
BP-46-SUB	Actinium-227	8.00E-02		3.41E-02	1.40E-01	8.31E-02	8.31E+00
BP-48-SUB	Actinium-227	1.02E-01		3.35E-02	1.22E-01	8.31E-02	8.31E+00
BP-50-SUB	Actinium-227	-2.66E-03	U	1.41E-01	1.21E-01	8.31E-02	8.31E+00
BP-51-SUB	Actinium-227	4.02E-02	U	7.94E-02	1.31E-01	8.31E-02	8.31E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.2 - Actinium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Actinium-228	1.33E+00		1.49E-01	3.88E-02	7.31E+02	7.31E+04
LR-2-SUR	Actinium-228	1.33E+00		1.46E-01	3.88E-02	7.31E+02	7.31E+04
LR-3-SUR	Actinium-228	1.40E+00		1.55E-01	3.87E-02	7.31E+02	7.31E+04
LR-4-SUR	Actinium-228	1.35E+00		1.51E-01	3.92E-02	7.31E+02	7.31E+04
LR-5-SUR	Actinium-228	1.37E+00		1.52E-01	3.91E-02	7.31E+02	7.31E+04
LR-6-SUR	Actinium-228	1.36E+00		1.50E-01	4.02E-02	7.31E+02	7.31E+04
LR-7-SUR	Actinium-228	1.30E+00		1.44E-01	3.76E-02	7.31E+02	7.31E+04
LR-8-SUR	Actinium-228	1.32E+00		1.47E-01	3.69E-02	7.31E+02	7.31E+04
LR-9-SUR	Actinium-228	1.37E+00		1.52E-01	3.93E-02	7.31E+02	7.31E+04
LR-10-SUR	Actinium-228	1.38E+00		1.54E-01	4.54E-02	7.31E+02	7.31E+04
LR-11-SUR	Actinium-228	1.36E+00		1.51E-01	4.48E-02	7.31E+02	7.31E+04
LR-12-SUR	Actinium-228	1.30E+00		1.44E-01	4.03E-02	7.31E+02	7.31E+04
LR-13-SUR	Actinium-228	1.27E+00		1.41E-01	3.79E-02	7.31E+02	7.31E+04
LR-14-SUR	Actinium-228	1.18E+00		1.32E-01	3.88E-02	7.31E+02	7.31E+04
LR-15-SUR	Actinium-228	1.52E+00		1.69E-01	4.26E-02	7.31E+02	7.31E+04
LR-16-SUR	Actinium-228	1.47E+00		1.61E-01	3.72E-02	7.31E+02	7.31E+04
LR-17-SUR	Actinium-228	1.36E+00		1.50E-01	3.29E-02	7.31E+02	7.31E+04
LR-18-SUR	Actinium-228	1.47E+00		1.64E-01	3.83E-02	7.31E+02	7.31E+04
LR-19-SUR	Actinium-228	1.50E+00		1.66E-01	4.08E-02	7.31E+02	7.31E+04
LR-20-SUR	Actinium-228	1.52E+00		1.69E-01	3.98E-02	7.31E+02	7.31E+04
LR-21-SUR	Actinium-228	1.47E+00		1.64E-01	3.98E-02	7.31E+02	7.31E+04
LR-22-SUR	Actinium-228	1.47E+00		1.63E-01	3.95E-02	7.31E+02	7.31E+04
LR-23-SUR	Actinium-228	1.47E+00		1.63E-01	3.69E-02	7.31E+02	7.31E+04
LR-24-SUR	Actinium-228	1.40E+00		1.56E-01	3.70E-02	7.31E+02	7.31E+04
LR-25-SUR	Actinium-228	1.41E+00		1.55E-01	3.97E-02	7.31E+02	7.31E+04
LR-26-SUR	Actinium-228	1.36E+00		1.52E-01	4.03E-02	7.31E+02	7.31E+04
LR-27-SUR	Actinium-228	1.27E+00		1.42E-01	3.74E-02	7.31E+02	7.31E+04
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Actinium-228	1.53E+00		1.69E-01	3.92E-02	7.31E+02	7.31E+04
LR-4-SUB	Actinium-228	1.51E+00		1.67E-01	3.58E-02	7.31E+02	7.31E+04
LR-9-SUB	Actinium-228	1.62E+00		1.79E-01	3.62E-02	7.31E+02	7.31E+04
LR-13-SUB	Actinium-228	1.47E+00		1.62E-01	3.84E-02	7.31E+02	7.31E+04
LR-15-SUB	Actinium-228	1.80E+00		1.99E-01	5.04E-02	7.31E+02	7.31E+04
LR-18-SUB	Actinium-228	1.50E+00		1.67E-01	4.50E-02	7.31E+02	7.31E+04
LR-19-SUB	Actinium-228	1.62E+00		1.79E-01	4.59E-02	7.31E+02	7.31E+04
LR-23-SUB	Actinium-228	1.79E+00		1.97E-01	4.75E-02	7.31E+02	7.31E+04
LR-24-SUB	Actinium-228	1.45E+00		1.60E-01	4.21E-02	7.31E+02	7.31E+04
LR-26-SUB	Actinium-228	1.65E+00		1.83E-01	4.26E-02	7.31E+02	7.31E+04
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Actinium-228	1.05E+00		1.16E-01	3.15E-02	7.31E+02	7.31E+04
RP-2-SUR	Actinium-228	1.04E+00		1.15E-01	3.38E-02	7.31E+02	7.31E+04
RP-3-SUR	Actinium-228	1.07E+00		1.20E-01	3.49E-02	7.31E+02	7.31E+04
RP-4-SUR	Actinium-228	9.66E-01		1.08E-01	3.31E-02	7.31E+02	7.31E+04
RP-5-SUR	Actinium-228	9.97E-01		1.12E-01	3.30E-02	7.31E+02	7.31E+04
RP-6-SUR	Actinium-228	1.01E+00		1.12E-01	3.35E-02	7.31E+02	7.31E+04
RP-7-SUR	Actinium-228	1.06E+00		1.18E-01	3.74E-02	7.31E+02	7.31E+04
RP-8-SUR	Actinium-228	1.10E+00		1.23E-01	3.86E-02	7.31E+02	7.31E+04
RP-9-SUR	Actinium-228	1.01E+00		1.04E-01	3.06E-02	7.31E+02	7.31E+04
RP-10-SUR	Actinium-228	9.08E-01		1.12E-01	4.51E-02	7.31E+02	7.31E+04
RP-11-SUR	Actinium-228	1.13E+00		1.26E-01	3.79E-02	7.31E+02	7.31E+04
RP-12-SUR	Actinium-228	1.01E+00		1.13E-01	3.20E-02	7.31E+02	7.31E+04
RP-13-SUR	Actinium-228	9.69E-01		1.08E-01	3.12E-02	7.31E+02	7.31E+04
RP-14-SUR	Actinium-228	1.01E+00		1.12E-01	3.18E-02	7.31E+02	7.31E+04
RP-15-SUR	Actinium-228	9.92E-01		1.11E-01	3.35E-02	7.31E+02	7.31E+04
RP-16-SUR	Actinium-228	9.70E-01		1.07E-01	3.22E-02	7.31E+02	7.31E+04
RP-17-SUR	Actinium-228	1.01E+00		1.13E-01	3.30E-02	7.31E+02	7.31E+04
RP-18-SUR	Actinium-228	1.06E+00		1.17E-01	3.28E-02	7.31E+02	7.31E+04
RP-19-SUR	Actinium-228	1.08E+00		1.19E-01	3.51E-02	7.31E+02	7.31E+04
RP-20-SUR	Actinium-228	1.21E+00		1.33E-01	3.85E-02	7.31E+02	7.31E+04
RP-21-SUR	Actinium-228	1.01E+00		1.12E-01	3.22E-02	7.31E+02	7.31E+04

Table 6.2 - Actinium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Actinium-228	1.00E+00		1.12E-01	3.33E-02	7.31E+02	7.31E+04
RP-23-SUR	Actinium-228	1.10E+00		1.24E-01	4.15E-02	7.31E+02	7.31E+04
RP-24-SUR	Actinium-228	1.01E+00		1.13E-01	3.22E-02	7.31E+02	7.31E+04
RP-25-SUR	Actinium-228	1.05E+00		1.17E-01	3.47E-02	7.31E+02	7.31E+04
RP-26-SUR	Actinium-228	1.08E+00		1.20E-01	3.49E-02	7.31E+02	7.31E+04
RP-27-SUR	Actinium-228	1.12E+00		1.24E-01	3.47E-02	7.31E+02	7.31E+04
RP-28-SUR	Actinium-228	1.16E+00		1.30E-01	3.53E-02	7.31E+02	7.31E+04
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Actinium-228	9.97E-01		1.12E-01	3.28E-02	7.31E+02	7.31E+04
RP-5-SUB	Actinium-228	1.13E+00		1.26E-01	3.58E-02	7.31E+02	7.31E+04
RP-7-SUB	Actinium-228	1.15E+00		1.28E-01	3.46E-02	7.31E+02	7.31E+04
RP-12-SUB	Actinium-228	9.72E-01		1.09E-01	3.08E-02	7.31E+02	7.31E+04
RP-13-SUB	Actinium-228	1.15E+00		1.28E-01	3.48E-02	7.31E+02	7.31E+04
RP-17-SUB	Actinium-228	1.21E+00		1.33E-01	3.46E-02	7.31E+02	7.31E+04
RP-18-SUB	Actinium-228	1.25E+00		1.39E-01	3.55E-02	7.31E+02	7.31E+04
RP-19-SUB	Actinium-228	1.22E+00		1.35E-01	3.36E-02	7.31E+02	7.31E+04
RP-20-SUB	Actinium-228	1.20E+00		1.33E-01	3.36E-02	7.31E+02	7.31E+04
RP-28-SUB	Actinium-228	1.16E+00		1.29E-01	3.39E-02	7.31E+02	7.31E+04
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Actinium-228	1.78E+00		1.96E-01	4.00E-02	7.31E+02	7.31E+04
BP-2-SUR	Actinium-228	1.83E+00		2.02E-01	4.01E-02	7.31E+02	7.31E+04
BP-3-SUR	Actinium-228	1.89E+00		2.08E-01	4.04E-02	7.31E+02	7.31E+04
BP-4-SUR	Actinium-228	2.03E+00		2.24E-01	4.16E-02	7.31E+02	7.31E+04
BP-5-SUR	Actinium-228	2.10E+00		2.31E-01	4.18E-02	7.31E+02	7.31E+04
BP-6-SUR	Actinium-228	2.12E+00		2.33E-01	4.18E-02	7.31E+02	7.31E+04
BP-7-SUR	Actinium-228	2.10E+00		2.30E-01	4.40E-02	7.31E+02	7.31E+04
BP-8-SUR	Actinium-228	2.04E+00		2.25E-01	4.19E-02	7.31E+02	7.31E+04
BP-9-SUR	Actinium-228	2.00E+00		2.20E-01	4.21E-02	7.31E+02	7.31E+04
BP-10-SUR	Actinium-228	2.09E+00		2.30E-01	4.23E-02	7.31E+02	7.31E+04
BP-11-SUR	Actinium-228	1.98E+00		2.17E-01	4.17E-02	7.31E+02	7.31E+04
BP-12-SUR	Actinium-228	1.92E+00		2.12E-01	4.18E-02	7.31E+02	7.31E+04
BP-13-SUR	Actinium-228	1.99E+00		2.05E-01	4.61E-02	7.31E+02	7.31E+04
BP-14-SUR	Actinium-228	1.68E+00		1.85E-01	3.73E-02	7.31E+02	7.31E+04
BP-15-SUR	Actinium-228	1.83E+00		2.01E-01	4.07E-02	7.31E+02	7.31E+04
BP-16-SUR	Actinium-228	1.78E+00		1.96E-01	4.03E-02	7.31E+02	7.31E+04
BP-17-SUR	Actinium-228	1.88E+00		2.06E-01	4.05E-02	7.31E+02	7.31E+04
BP-18-SUR	Actinium-228	1.87E+00		2.05E-01	3.93E-02	7.31E+02	7.31E+04
BP-19-SUR	Actinium-228	1.98E+00		2.03E-01	4.30E-02	7.31E+02	7.31E+04
BP-20-SUR	Actinium-228	2.01E+00		2.20E-01	4.14E-02	7.31E+02	7.31E+04
BP-21-SUR	Actinium-228	2.04E+00		2.24E-01	4.14E-02	7.31E+02	7.31E+04
BP-22-SUR	Actinium-228	1.95E+00		2.00E-01	4.47E-02	7.31E+02	7.31E+04
BP-23-SUR	Actinium-228	1.95E+00		2.01E-01	4.43E-02	7.31E+02	7.31E+04
BP-24-SUR	Actinium-228	1.96E+00		2.01E-01	4.55E-02	7.31E+02	7.31E+04
BP-25-SUR	Actinium-228	1.80E+00		1.85E-01	4.61E-02	7.31E+02	7.31E+04
BP-26-SUR	Actinium-228	1.77E+00		1.81E-01	4.43E-02	7.31E+02	7.31E+04
BP-27-SUR	Actinium-228	1.80E+00		1.86E-01	4.37E-02	7.31E+02	7.31E+04
BP-28-SUR	Actinium-228	1.61E+00		1.65E-01	4.22E-02	7.31E+02	7.31E+04
BP-29-SUR	Actinium-228	1.70E+00		1.74E-01	4.27E-02	7.31E+02	7.31E+04
BP-30-SUR	Actinium-228	1.85E+00		2.05E-01	4.30E-02	7.31E+02	7.31E+04
BP-31-SUR	Actinium-228	1.89E+00		1.95E-01	4.47E-02	7.31E+02	7.31E+04
BP-32-SUR	Actinium-228	1.96E+00		2.00E-01	4.48E-02	7.31E+02	7.31E+04
BP-33-SUR	Actinium-228	1.98E+00		2.19E-01	4.43E-02	7.31E+02	7.31E+04
BP-34-SUR	Actinium-228	1.98E+00		2.03E-01	4.48E-02	7.31E+02	7.31E+04
BP-35-SUR	Actinium-228	1.81E+00		2.00E-01	4.41E-02	7.31E+02	7.31E+04
BP-36-SUR	Actinium-228	1.82E+00		2.01E-01	4.25E-02	7.31E+02	7.31E+04
BP-37-SUR	Actinium-228	1.75E+00		1.94E-01	4.57E-02	7.31E+02	7.31E+04
BP-38-SUR	Actinium-228	1.60E+00		1.77E-01	4.41E-02	7.31E+02	7.31E+04
BP-39-SUR	Actinium-228	1.54E+00		1.71E-01	4.22E-02	7.31E+02	7.31E+04
BP-40-SUR	Actinium-228	1.58E+00		1.75E-01	4.43E-02	7.31E+02	7.31E+04
BP-41-SUR	Actinium-228	1.68E+00		1.71E-01	4.25E-02	7.31E+02	7.31E+04
BP-42-SUR	Actinium-228	1.71E+00		1.90E-01	4.41E-02	7.31E+02	7.31E+04

Table 6.2 - Actinium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Actinium-228	1.77E+00		1.82E-01	4.39E-02	7.31E+02	7.31E+04
BP-44-SUR	Actinium-228	1.72E+00		1.90E-01	4.29E-02	7.31E+02	7.31E+04
BP-45-SUR	Actinium-228	1.75E+00		1.80E-01	4.34E-02	7.31E+02	7.31E+04
BP-46-SUR	Actinium-228	1.75E+00		1.94E-01	4.34E-02	7.31E+02	7.31E+04
BP-47-SUR	Actinium-228	1.91E+00		1.94E-01	3.76E-02	7.31E+02	7.31E+04
BP-48-SUR	Actinium-228	1.93E+00		2.14E-01	4.88E-02	7.31E+02	7.31E+04
BP-49-SUR	Actinium-228	1.87E+00		1.92E-01	3.76E-02	7.31E+02	7.31E+04
BP-50-SUR	Actinium-228	1.84E+00		2.04E-01	4.53E-02	7.31E+02	7.31E+04
BP-51-SUR	Actinium-228	1.67E+00		1.70E-01	3.56E-02	7.31E+02	7.31E+04
BP-52-SUR	Actinium-228	1.52E+00		1.56E-01	3.48E-02	7.31E+02	7.31E+04
BP-53-SUR	Actinium-228	1.50E+00		1.67E-01	4.52E-02	7.31E+02	7.31E+04
BP-54-SUR	Actinium-228	1.37E+00		1.40E-01	3.27E-02	7.31E+02	7.31E+04
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Actinium-228	1.52E+00		1.55E-01	3.61E-02	7.31E+02	7.31E+04
BP-4-SUB	Actinium-228	1.57E+00		1.74E-01	4.20E-02	7.31E+02	7.31E+04
BP-5-SUB	Actinium-228	1.54E+00		1.71E-01	4.38E-02	7.31E+02	7.31E+04
BP-9-SUB	Actinium-228	1.94E+00		1.97E-01	3.50E-02	7.31E+02	7.31E+04
BP-12-SUB	Actinium-228	1.88E+00		2.08E-01	4.10E-02	7.31E+02	7.31E+04
BP-13-SUB	Actinium-228	1.93E+00		1.97E-01	4.27E-02	7.31E+02	7.31E+04
BP-14-SUB	Actinium-228	1.38E+00		1.53E-01	4.46E-02	7.31E+02	7.31E+04
BP-16-SUB	Actinium-228	1.95E+00		1.98E-01	3.56E-02	7.31E+02	7.31E+04
BP-20-SUB	Actinium-228	1.46E+00		1.62E-01	4.30E-02	7.31E+02	7.31E+04
BP-23-SUB	Actinium-228	1.59E+00		1.62E-01	3.36E-02	7.31E+02	7.31E+04
BP-29-SUB	Actinium-228	1.86E+00		4.25E-01	5.79E-01	7.31E+02	7.31E+04
BP-34-SUB	Actinium-228	2.10E+00		2.31E-01	4.60E-02	7.31E+02	7.31E+04
BP-35-SUB	Actinium-228	1.97E+00		2.00E-01	3.59E-02	7.31E+02	7.31E+04
BP-38-SUB	Actinium-228	1.51E+00		1.68E-01	4.70E-02	7.31E+02	7.31E+04
BP-43-SUB	Actinium-228	1.22E+00		1.31E-01	5.36E-02	7.31E+02	7.31E+04
BP-45-SUB	Actinium-228	1.94E+00		2.15E-01	4.43E-02	7.31E+02	7.31E+04
BP-46-SUB	Actinium-228	2.02E+00		2.08E-01	4.77E-02	7.31E+02	7.31E+04
BP-48-SUB	Actinium-228	1.60E+00		1.78E-01	4.46E-02	7.31E+02	7.31E+04
BP-50-SUB	Actinium-228	1.68E+00		1.71E-01	4.05E-02	7.31E+02	7.31E+04
BP-51-SUB	Actinium-228	2.30E+00		2.53E-01	4.52E-02	7.31E+02	7.31E+04

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.3 - Americium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Americium-241	-2.29E-04	U	1.08E-02	2.31E-02	1.32E-02	1.32E+00
LR-2-SUR	Americium-241	8.13E-03	U	1.17E-02	1.98E-02	1.32E-02	1.32E+00
LR-3-SUR	Americium-241	2.37E-03	U	9.89E-03	2.51E-02	1.32E-02	1.32E+00
LR-4-SUR	Americium-241	4.28E-03	U	9.85E-03	1.67E-02	1.32E-02	1.32E+00
LR-5-SUR	Americium-241	1.84E-03	U	1.08E-02	1.83E-02	1.32E-02	1.32E+00
LR-6-SUR	Americium-241	3.74E-03	U	1.10E-02	2.15E-02	1.32E-02	1.32E+00
LR-7-SUR	Americium-241	2.02E-03	U	1.19E-02	2.02E-02	1.32E-02	1.32E+00
LR-8-SUR	Americium-241	2.96E-03	U	1.19E-02	2.53E-02	1.32E-02	1.32E+00
LR-9-SUR	Americium-241	6.92E-03	U	1.65E-02	3.46E-02	1.32E-02	1.32E+00
LR-10-SUR	Americium-241	1.79E-03	U	1.05E-02	1.78E-02	1.32E-02	1.32E+00
LR-11-SUR	Americium-241	7.52E-04	U	1.01E-02	1.97E-02	1.32E-02	1.32E+00
LR-12-SUR	Americium-241	1.82E-03	U	1.07E-02	1.81E-02	1.32E-02	1.32E+00
LR-13-SUR	Americium-241	3.59E-03	U	1.47E-02	3.15E-02	1.32E-02	1.32E+00
LR-14-SUR	Americium-241	3.05E-03	U	1.15E-02	1.25E-02	1.32E-02	1.32E+00
LR-15-SUR	Americium-241	-2.94E-03	U	1.03E-02	2.20E-02	1.32E-02	1.32E+00
LR-16-SUR	Americium-241	2.60E-03	U	1.06E-02	2.28E-02	1.32E-02	1.32E+00
LR-17-SUR	Americium-241	-1.23E-03	U	9.87E-03	2.12E-02	1.32E-02	1.32E+00
LR-18-SUR	Americium-241	-3.12E-03	U	1.09E-02	2.33E-02	1.32E-02	1.32E+00
LR-19-SUR	Americium-241	0.00E+00	U	6.01E-03	1.81E-02	1.32E-02	1.32E+00
LR-20-SUR	Americium-241	1.14E-02		9.83E-03	1.40E-02	1.32E-02	1.32E+00
LR-21-SUR	Americium-241	6.33E-03	U	8.06E-03	1.55E-02	1.32E-02	1.32E+00
LR-22-SUR	Americium-241	9.01E-03	U	1.04E-02	1.92E-02	1.32E-02	1.32E+00
LR-23-SUR	Americium-241	0.00E+00	U	5.42E-03	1.58E-02	1.32E-02	1.32E+00
LR-24-SUR	Americium-241	0.00E+00	U	8.25E-03	2.28E-02	1.32E-02	1.32E+00
LR-25-SUR	Americium-241	4.23E-03	U	6.90E-03	1.55E-02	1.32E-02	1.32E+00
LR-26-SUR	Americium-241	7.83E-03	U	1.02E-02	2.00E-02	1.32E-02	1.32E+00
LR-27-SUR	Americium-241	5.17E-03	U	7.26E-03	1.54E-02	1.32E-02	1.32E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Americium-241	1.65E-03	U	8.03E-03	1.91E-02	1.32E-02	1.32E+00
LR-4-SUB	Americium-241	1.92E-03	U	6.33E-03	1.66E-02	1.32E-02	1.32E+00
LR-9-SUB	Americium-241	2.77E-03	U	9.88E-03	2.01E-02	1.32E-02	1.32E+00
LR-13-SUB	Americium-241	6.90E-04	U	4.52E-03	1.38E-02	1.32E-02	1.32E+00
LR-15-SUB	Americium-241	-1.32E-03	U	4.66E-03	1.71E-02	1.32E-02	1.32E+00
LR-18-SUB	Americium-241	1.40E-04	U	4.52E-03	1.45E-02	1.32E-02	1.32E+00
LR-19-SUB	Americium-241	-1.94E-03	U	4.53E-03	1.51E-02	1.32E-02	1.32E+00
LR-23-SUB	Americium-241	-2.10E-03	U	4.53E-03	1.64E-02	1.32E-02	1.32E+00
LR-24-SUB	Americium-241	7.35E-04	U	7.24E-03	2.02E-02	1.32E-02	1.32E+00
LR-26-SUB	Americium-241	2.09E-03	U	5.99E-03	1.47E-02	1.32E-02	1.32E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Americium-241	3.20E-03	U	5.42E-03	1.28E-02	1.32E-02	1.32E+00
RP-2-SUR	Americium-241	-1.48E-03	U	4.52E-03	1.53E-02	1.32E-02	1.32E+00
RP-3-SUR	Americium-241	1.49E-03	U	4.98E-03	1.39E-02	1.32E-02	1.32E+00
RP-4-SUR	Americium-241	2.99E-03	U	5.81E-03	1.40E-02	1.32E-02	1.32E+00
RP-5-SUR	Americium-241	4.71E-03	U	7.49E-03	1.63E-02	1.32E-02	1.32E+00
RP-6-SUR	Americium-241	6.21E-03	U	7.45E-03	1.45E-02	1.32E-02	1.32E+00
RP-7-SUR	Americium-241	2.22E-02		1.48E-02	2.08E-02	1.32E-02	1.32E+00
RP-8-SUR	Americium-241	6.86E-03	U	8.06E-03	1.54E-02	1.32E-02	1.32E+00
RP-9-SUR	Americium-241	-1.36E-03	U	5.84E-03	1.73E-02	1.32E-02	1.32E+00
RP-10-SUR	Americium-241	7.97E-03	U	8.85E-03	1.66E-02	1.32E-02	1.32E+00
RP-11-SUR	Americium-241	-1.59E-03	U	8.05E-03	2.21E-02	1.32E-02	1.32E+00
RP-12-SUR	Americium-241	5.47E-03	U	7.70E-03	1.63E-02	1.32E-02	1.32E+00
RP-13-SUR	Americium-241	1.62E-03	U	4.52E-03	1.30E-02	1.32E-02	1.32E+00
RP-14-SUR	Americium-241	2.85E-03	U	8.71E-03	1.99E-02	1.32E-02	1.32E+00
RP-15-SUR	Americium-241	3.16E-03	U	6.85E-03	1.64E-02	1.32E-02	1.32E+00
RP-16-SUR	Americium-241	2.39E-02		1.38E-02	1.60E-02	1.32E-02	1.32E+00
RP-17-SUR	Americium-241	1.31E-03	U	6.69E-03	1.67E-02	1.32E-02	1.32E+00
RP-18-SUR	Americium-241	4.46E-03	U	7.09E-03	1.54E-02	1.32E-02	1.32E+00
RP-19-SUR	Americium-241	2.06E-03	U	1.01E-02	2.71E-02	1.32E-02	1.32E+00
RP-20-SUR	Americium-241	2.63E-03	U	9.38E-03	1.91E-02	1.32E-02	1.32E+00
RP-21-SUR	Americium-241	-9.38E-04	U	1.06E-02	2.16E-02	1.32E-02	1.32E+00

Table 6.3 - Americium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Americium-241	2.33E-03	U	1.22E-02	2.81E-02	1.32E-02	1.32E+00
RP-23-SUR	Americium-241	-2.47E-03	U	1.58E-02	4.38E-02	1.32E-02	1.32E+00
RP-24-SUR	Americium-241	3.12E-03	U	1.11E-02	2.27E-02	1.32E-02	1.32E+00
RP-25-SUR	Americium-241	-2.80E-03	U	1.05E-02	2.65E-02	1.32E-02	1.32E+00
RP-26-SUR	Americium-241	4.00E-03	U	1.09E-02	1.49E-02	1.32E-02	1.32E+00
RP-27-SUR	Americium-241	5.03E-03	U	1.14E-02	2.68E-02	1.32E-02	1.32E+00
RP-28-SUR	Americium-241	1.50E-03	U	1.01E-02	2.33E-02	1.32E-02	1.32E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Americium-241	1.10E-03	U	1.07E-02	2.69E-02	1.32E-02	1.32E+00
RP-5-SUB	Americium-241	3.67E-03	U	1.08E-02	2.10E-02	1.32E-02	1.32E+00
RP-7-SUB	Americium-241	-3.15E-03	U	1.19E-02	2.99E-02	1.32E-02	1.32E+00
RP-12-SUB	Americium-241	-1.15E-03	U	1.30E-02	2.65E-02	1.32E-02	1.32E+00
RP-13-SUB	Americium-241	1.20E-02	U	1.51E-02	2.67E-02	1.32E-02	1.32E+00
RP-17-SUB	Americium-241	3.24E-03	U	1.16E-02	2.35E-02	1.32E-02	1.32E+00
RP-18-SUB	Americium-241	-1.98E-03	U	1.12E-02	2.58E-02	1.32E-02	1.32E+00
RP-19-SUB	Americium-241	-9.91E-04	U	1.12E-02	2.28E-02	1.32E-02	1.32E+00
RP-20-SUB	Americium-241	5.87E-03	U	1.31E-02	3.07E-02	1.32E-02	1.32E+00
RP-28-SUB	Americium-241	-6.23E-03	U	1.30E-02	4.16E-02	1.32E-02	1.32E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Americium-241	5.00E-03	U	1.01E-02	1.46E-02	1.32E-02	1.32E+00
BP-2-SUR	Americium-241	1.88E-03	U	1.11E-02	1.88E-02	1.32E-02	1.32E+00
BP-3-SUR	Americium-241	1.09E-02	U	1.08E-02	1.12E-02	1.32E-02	1.32E+00
BP-4-SUR	Americium-241	7.65E-03	U	1.18E-02	1.99E-02	1.32E-02	1.32E+00
BP-5-SUR	Americium-241	4.96E-04	U	1.10E-02	2.53E-02	1.32E-02	1.32E+00
BP-6-SUR	Americium-241	-2.39E-03	U	1.25E-02	2.43E-02	1.32E-02	1.32E+00
BP-7-SUR	Americium-241	1.72E-03	U	1.39E-02	3.65E-02	1.32E-02	1.32E+00
BP-8-SUR	Americium-241	5.26E-03	U	9.97E-03	2.10E-02	1.32E-02	1.32E+00
BP-9-SUR	Americium-241	7.23E-03	U	1.02E-02	2.00E-02	1.32E-02	1.32E+00
BP-10-SUR	Americium-241	8.28E-03	U	1.06E-02	1.78E-02	1.32E-02	1.32E+00
BP-11-SUR	Americium-241	1.98E-03	U	1.33E-02	3.06E-02	1.32E-02	1.32E+00
BP-12-SUR	Americium-241	6.89E-03	U	1.14E-02	2.22E-02	1.32E-02	1.32E+00
BP-13-SUR	Americium-241	8.35E-03	U	1.22E-02	2.41E-02	1.32E-02	1.32E+00
BP-14-SUR	Americium-241	1.38E-02	U	1.62E-02	2.85E-02	1.32E-02	1.32E+00
BP-15-SUR	Americium-241	7.23E-03	U	1.05E-02	2.03E-02	1.32E-02	1.32E+00
BP-16-SUR	Americium-241	1.44E-02		1.32E-02	1.61E-02	1.32E-02	1.32E+00
BP-17-SUR	Americium-241	1.13E-02	U	1.25E-02	1.98E-02	1.32E-02	1.32E+00
BP-18-SUR	Americium-241	1.36E-02		1.21E-02	1.11E-02	1.32E-02	1.32E+00
BP-19-SUR	Americium-241	-2.88E-03	U	1.08E-02	2.73E-02	1.32E-02	1.32E+00
BP-20-SUR	Americium-241	0.00E+00	U	1.14E-02	1.56E-02	1.32E-02	1.32E+00
BP-21-SUR	Americium-241	1.29E-03	U	1.25E-02	3.15E-02	1.32E-02	1.32E+00
BP-22-SUR	Americium-241	1.10E-03	U	1.07E-02	2.69E-02	1.32E-02	1.32E+00
BP-23-SUR	Americium-241	5.31E-03	U	1.20E-02	2.83E-02	1.32E-02	1.32E+00
BP-24-SUR	Americium-241	3.58E-03	U	1.28E-02	2.60E-02	1.32E-02	1.32E+00
BP-25-SUR	Americium-241	5.63E-03	U	1.25E-02	2.81E-02	1.32E-02	1.32E+00
BP-26-SUR	Americium-241	-2.33E-03	U	1.32E-02	3.04E-02	1.32E-02	1.32E+00
BP-27-SUR	Americium-241	-1.43E-03	U	1.62E-02	3.29E-02	1.32E-02	1.32E+00
BP-28-SUR	Americium-241	-2.31E-03	U	1.48E-02	4.11E-02	1.32E-02	1.32E+00
BP-29-SUR	Americium-241	-1.12E-03	U	1.26E-02	2.57E-02	1.32E-02	1.32E+00
BP-30-SUR	Americium-241	2.08E-03	U	1.08E-02	2.50E-02	1.32E-02	1.32E+00
BP-31-SUR	Americium-241	3.58E-03	U	1.28E-02	2.60E-02	1.32E-02	1.32E+00
BP-32-SUR	Americium-241	-2.84E-03	U	1.07E-02	2.69E-02	1.32E-02	1.32E+00
BP-33-SUR	Americium-241	4.47E-03	U	1.21E-02	1.66E-02	1.32E-02	1.32E+00
BP-34-SUR	Americium-241	-3.09E-03	U	1.16E-02	2.93E-02	1.32E-02	1.32E+00
BP-35-SUR	Americium-241	-1.32E-03	U	9.16E-03	2.72E-02	1.32E-02	1.32E+00
BP-36-SUR	Americium-241	2.86E-03	U	1.02E-02	2.08E-02	1.32E-02	1.32E+00
BP-37-SUR	Americium-241	7.32E-03	U	1.17E-02	2.29E-02	1.32E-02	1.32E+00
BP-38-SUR	Americium-241	2.37E-03	U	1.24E-02	2.86E-02	1.32E-02	1.32E+00
BP-39-SUR	Americium-241	3.30E-03	U	1.18E-02	2.39E-02	1.32E-02	1.32E+00
BP-40-SUR	Americium-241	5.29E-03	U	1.18E-02	2.77E-02	1.32E-02	1.32E+00
BP-41-SUR	Americium-241	-1.09E-02	U	1.18E-02	4.58E-02	1.32E-02	1.32E+00
BP-42-SUR	Americium-241	-9.70E-04	U	1.10E-02	2.23E-02	1.32E-02	1.32E+00

Table 6.3 - Americium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Americium-241	-1.80E-03	U	1.02E-02	2.35E-02	1.32E-02	1.32E+00
BP-44-SUR	Americium-241	1.09E-02	U	1.36E-02	2.18E-02	1.32E-02	1.32E+00
BP-45-SUR	Americium-241	5.12E-03	U	1.16E-02	2.73E-02	1.32E-02	1.32E+00
BP-46-SUR	Americium-241	2.96E-03	U	1.13E-02	1.55E-02	1.32E-02	1.32E+00
BP-47-SUR	Americium-241	-2.71E-03	U	1.02E-02	2.57E-02	1.32E-02	1.32E+00
BP-48-SUR	Americium-241	1.14E-03	U	1.10E-02	2.78E-02	1.32E-02	1.32E+00
BP-49-SUR	Americium-241	5.30E-03	U	1.20E-02	2.83E-02	1.32E-02	1.32E+00
BP-50-SUR	Americium-241	1.77E-02	U	1.88E-02	2.60E-02	1.32E-02	1.32E+00
BP-51-SUR	Americium-241	-5.09E-03	U	9.95E-03	2.95E-02	1.32E-02	1.32E+00
BP-52-SUR	Americium-241	2.57E-03	U	9.16E-03	1.86E-02	1.32E-02	1.32E+00
BP-53-SUR	Americium-241	2.85E-03	U	1.02E-02	2.07E-02	1.32E-02	1.32E+00
BP-54-SUR	Americium-241	7.27E-03	U	1.37E-02	2.99E-02	1.32E-02	1.32E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Americium-241	-1.02E-02	U	1.08E-02	4.20E-02	1.32E-02	1.32E+00
BP-4-SUB	Americium-241	-9.81E-04	U	1.11E-02	2.25E-02	1.32E-02	1.32E+00
BP-5-SUB	Americium-241	-3.37E-03	U	1.27E-02	3.19E-02	1.32E-02	1.32E+00
BP-9-SUB	Americium-241	3.21E-03	U	1.15E-02	2.33E-02	1.32E-02	1.32E+00
BP-12-SUB	Americium-241	7.86E-03	U	1.10E-02	1.46E-02	1.32E-02	1.32E+00
BP-13-SUB	Americium-241	1.24E-03	U	1.20E-02	3.03E-02	1.32E-02	1.32E+00
BP-14-SUB	Americium-241	-2.92E-03	U	1.10E-02	2.77E-02	1.32E-02	1.32E+00
BP-16-SUB	Americium-241	-3.16E-03	U	1.19E-02	3.00E-02	1.32E-02	1.32E+00
BP-20-SUB	Americium-241	8.15E-03	U	1.31E-02	2.56E-02	1.32E-02	1.32E+00
BP-23-SUB	Americium-241	2.06E-03	U	1.01E-02	2.71E-02	1.32E-02	1.32E+00
BP-29-SUB	Americium-241	-3.05E-03	U	1.18E-02	2.96E-02	1.32E-02	1.32E+00
BP-34-SUB	Americium-241	6.31E-03	U	1.01E-02	1.98E-02	1.32E-02	1.32E+00
BP-35-SUB	Americium-241	-9.61E-04	U	1.08E-02	2.21E-02	1.32E-02	1.32E+00
BP-38-SUB	Americium-241	-1.91E-03	U	1.08E-02	2.49E-02	1.32E-02	1.32E+00
BP-43-SUB	Americium-241	1.34E-02	U	1.34E-02	2.13E-02	1.32E-02	1.32E+00
BP-45-SUB	Americium-241	-7.77E-03	U	1.37E-02	3.69E-02	1.32E-02	1.32E+00
BP-46-SUB	Americium-241	1.02E-02	U	1.27E-02	2.28E-02	1.32E-02	1.32E+00
BP-48-SUB	Americium-241	1.51E-03	U	1.01E-02	2.33E-02	1.32E-02	1.32E+00
BP-50-SUB	Americium-241	1.02E-02	U	1.13E-02	1.79E-02	1.32E-02	1.32E+00
BP-51-SUB	Americium-241	3.22E-03	U	1.27E-02	2.74E-02	1.32E-02	1.32E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.4 - Americium-243 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Americium-243	4.93E-03	U	1.05E-02	2.37E-02	1.11E-02	1.11E+00
LR-2-SUR	Americium-243	0.00E+00	U	6.78E-03	1.77E-02	1.11E-02	1.11E+00
LR-3-SUR	Americium-243	2.38E-03	U	6.78E-03	1.59E-02	1.11E-02	1.11E+00
LR-4-SUR	Americium-243	-2.23E-03	U	6.78E-03	2.17E-02	1.11E-02	1.11E+00
LR-5-SUR	Americium-243	-5.66E-03	U	6.83E-03	2.75E-02	1.11E-02	1.11E+00
LR-6-SUR	Americium-243	1.23E-02	U	1.31E-02	2.12E-02	1.11E-02	1.11E+00
LR-7-SUR	Americium-243	6.01E-03	U	9.04E-03	1.83E-02	1.11E-02	1.11E+00
LR-8-SUR	Americium-243	4.28E-03	U	1.20E-02	2.65E-02	1.11E-02	1.11E+00
LR-9-SUR	Americium-243	6.97E-03	U	1.14E-02	2.36E-02	1.11E-02	1.11E+00
LR-10-SUR	Americium-243	2.38E-03	U	6.78E-03	1.59E-02	1.11E-02	1.11E+00
LR-11-SUR	Americium-243	1.04E-02	U	1.76E-02	3.49E-02	1.11E-02	1.11E+00
LR-12-SUR	Americium-243	4.90E-03	U	1.22E-02	2.73E-02	1.11E-02	1.11E+00
LR-13-SUR	Americium-243	2.34E-03	U	1.09E-02	2.64E-02	1.11E-02	1.11E+00
LR-14-SUR	Americium-243	4.98E-03	U	1.07E-02	2.41E-02	1.11E-02	1.11E+00
LR-15-SUR	Americium-243	2.85E-03	U	1.09E-02	2.77E-02	1.11E-02	1.11E+00
LR-16-SUR	Americium-243	2.03E-03	U	7.17E-03	1.85E-02	1.11E-02	1.11E+00
LR-17-SUR	Americium-243	2.12E-03	U	1.11E-02	2.62E-02	1.11E-02	1.11E+00
LR-18-SUR	Americium-243	7.31E-03	U	1.20E-02	2.47E-02	1.11E-02	1.11E+00
LR-19-SUR	Americium-243	-2.11E-03	U	9.11E-03	2.27E-02	1.11E-02	1.11E+00
LR-20-SUR	Americium-243	3.50E-03	U	9.27E-03	2.19E-02	1.11E-02	1.11E+00
LR-21-SUR	Americium-243	-8.80E-04	U	9.85E-03	2.62E-02	1.11E-02	1.11E+00
LR-22-SUR	Americium-243	-3.31E-04	U	9.68E-03	2.44E-02	1.11E-02	1.11E+00
LR-23-SUR	Americium-243	3.03E-03	U	1.10E-02	2.76E-02	1.11E-02	1.11E+00
LR-24-SUR	Americium-243	9.62E-03	U	1.10E-02	1.95E-02	1.11E-02	1.11E+00
LR-25-SUR	Americium-243	-6.11E-04	U	9.84E-03	2.57E-02	1.11E-02	1.11E+00
LR-26-SUR	Americium-243	6.87E-03	U	1.20E-02	2.52E-02	1.11E-02	1.11E+00
LR-27-SUR	Americium-243	3.52E-03	U	9.62E-03	2.30E-02	1.11E-02	1.11E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Americium-243	-6.16E-04	U	8.65E-03	2.39E-02	1.11E-02	1.11E+00
LR-4-SUB	Americium-243	0.00E+00	U	9.36E-03	2.38E-02	1.11E-02	1.11E+00
LR-9-SUB	Americium-243	8.47E-03	U	1.41E-02	2.73E-02	1.11E-02	1.11E+00
LR-13-SUB	Americium-243	0.00E+00	U	1.14E-02	2.90E-02	1.11E-02	1.11E+00
LR-15-SUB	Americium-243	8.24E-03	U	1.16E-02	2.28E-02	1.11E-02	1.11E+00
LR-18-SUB	Americium-243	-1.04E-03	U	9.90E-03	1.73E-02	1.11E-02	1.11E+00
LR-19-SUB	Americium-243	-2.34E-04	U	1.59E-02	3.92E-02	1.11E-02	1.11E+00
LR-23-SUB	Americium-243	-5.95E-04	U	8.36E-03	2.31E-02	1.11E-02	1.11E+00
LR-24-SUB	Americium-243	0.00E+00	U	9.30E-03	2.36E-02	1.11E-02	1.11E+00
LR-26-SUB	Americium-243	1.49E-03	U	9.47E-03	1.65E-02	1.11E-02	1.11E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Americium-243	-4.09E-03	U	6.40E-03	2.35E-02	1.11E-02	1.11E+00
RP-2-SUR	Americium-243	0.00E+00	U	8.25E-03	2.27E-02	1.11E-02	1.11E+00
RP-3-SUR	Americium-243	3.85E-03	U	8.47E-03	1.96E-02	1.11E-02	1.11E+00
RP-4-SUR	Americium-243	4.04E-03	U	7.76E-03	1.80E-02	1.11E-02	1.11E+00
RP-5-SUR	Americium-243	4.65E-03	U	1.09E-02	2.51E-02	1.11E-02	1.11E+00
RP-6-SUR	Americium-243	0.00E+00	U	5.42E-03	1.58E-02	1.11E-02	1.11E+00
RP-7-SUR	Americium-243	5.07E-03	U	9.14E-03	1.94E-02	1.11E-02	1.11E+00
RP-8-SUR	Americium-243	1.98E-03	U	8.48E-03	2.15E-02	1.11E-02	1.11E+00
RP-9-SUR	Americium-243	-6.72E-03	U	7.75E-03	2.81E-02	1.11E-02	1.11E+00
RP-10-SUR	Americium-243	6.59E-03	U	1.54E-02	3.23E-02	1.11E-02	1.11E+00
RP-11-SUR	Americium-243	-2.06E-03	U	6.72E-03	2.24E-02	1.11E-02	1.11E+00
RP-12-SUR	Americium-243	0.00E+00	U	1.03E-02	2.65E-02	1.11E-02	1.11E+00
RP-13-SUR	Americium-243	4.47E-03	U	9.19E-03	2.13E-02	1.11E-02	1.11E+00
RP-14-SUR	Americium-243	-2.06E-03	U	5.72E-03	2.10E-02	1.11E-02	1.11E+00
RP-15-SUR	Americium-243	4.03E-03	U	6.61E-03	1.48E-02	1.11E-02	1.11E+00
RP-16-SUR	Americium-243	-5.51E-03	U	5.55E-03	2.21E-02	1.11E-02	1.11E+00
RP-17-SUR	Americium-243	2.00E-03	U	7.87E-03	2.04E-02	1.11E-02	1.11E+00
RP-18-SUR	Americium-243	2.04E-03	U	6.71E-03	1.82E-02	1.11E-02	1.11E+00
RP-19-SUR	Americium-243	-1.81E-03	U	8.16E-03	2.05E-02	1.11E-02	1.11E+00
RP-20-SUR	Americium-243	8.70E-03	U	1.12E-02	1.92E-02	1.11E-02	1.11E+00
RP-21-SUR	Americium-243	4.16E-03	U	1.12E-02	2.82E-02	1.11E-02	1.11E+00

Table 6.4 - Americium-243 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Americium-243	1.34E-04	U	7.29E-03	2.03E-02	1.11E-02	1.11E+00
RP-23-SUR	Americium-243	6.27E-03	U	1.19E-02	2.55E-02	1.11E-02	1.11E+00
RP-24-SUR	Americium-243	9.54E-03	U	1.26E-02	2.30E-02	1.11E-02	1.11E+00
RP-25-SUR	Americium-243	-2.13E-03	U	9.63E-03	2.42E-02	1.11E-02	1.11E+00
RP-26-SUR	Americium-243	-3.83E-03	U	9.45E-03	3.25E-02	1.11E-02	1.11E+00
RP-27-SUR	Americium-243	8.30E-03	U	1.08E-02	1.90E-02	1.11E-02	1.11E+00
RP-28-SUR	Americium-243	3.88E-04	U	8.08E-03	2.21E-02	1.11E-02	1.11E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Americium-243	1.45E-03	U	9.85E-03	2.47E-02	1.11E-02	1.11E+00
RP-5-SUB	Americium-243	5.77E-03	U	9.66E-03	2.02E-02	1.11E-02	1.11E+00
RP-7-SUB	Americium-243	3.20E-03	U	9.78E-03	2.56E-02	1.11E-02	1.11E+00
RP-12-SUB	Americium-243	-1.71E-03	U	9.27E-03	2.90E-02	1.11E-02	1.11E+00
RP-13-SUB	Americium-243	3.34E-04	U	9.04E-03	2.49E-02	1.11E-02	1.11E+00
RP-17-SUB	Americium-243	-1.26E-04	U	1.13E-02	2.67E-02	1.11E-02	1.11E+00
RP-18-SUB	Americium-243	7.16E-03	U	1.21E-02	1.81E-02	1.11E-02	1.11E+00
RP-19-SUB	Americium-243	6.94E-03	U	1.08E-02	2.23E-02	1.11E-02	1.11E+00
RP-20-SUB	Americium-243	-5.75E-03	U	1.18E-02	4.11E-02	1.11E-02	1.11E+00
RP-28-SUB	Americium-243	4.39E-03	U	1.01E-02	2.52E-02	1.11E-02	1.11E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Americium-243	4.77E-03	U	9.93E-03	2.12E-02	1.11E-02	1.11E+00
BP-2-SUR	Americium-243	-1.07E-03	U	1.12E-02	2.53E-02	1.11E-02	1.11E+00
BP-3-SUR	Americium-243	1.06E-02	U	1.19E-02	1.92E-02	1.11E-02	1.11E+00
BP-4-SUR	Americium-243	1.04E-03	U	1.15E-02	2.76E-02	1.11E-02	1.11E+00
BP-5-SUR	Americium-243	7.18E-04	U	1.35E-02	3.31E-02	1.11E-02	1.11E+00
BP-6-SUR	Americium-243	-1.83E-03	U	1.56E-02	3.61E-02	1.11E-02	1.11E+00
BP-7-SUR	Americium-243	3.26E-03	U	1.11E-02	2.39E-02	1.11E-02	1.11E+00
BP-8-SUR	Americium-243	2.12E-03	U	1.25E-02	2.11E-02	1.11E-02	1.11E+00
BP-9-SUR	Americium-243	3.08E-03	U	1.16E-02	1.26E-02	1.11E-02	1.11E+00
BP-10-SUR	Americium-243	9.26E-03	U	1.15E-02	2.07E-02	1.11E-02	1.11E+00
BP-11-SUR	Americium-243	4.04E-03	U	1.15E-02	2.21E-02	1.11E-02	1.11E+00
BP-12-SUR	Americium-243	8.65E-04	U	1.16E-02	2.27E-02	1.11E-02	1.11E+00
BP-13-SUR	Americium-243	6.23E-03	U	1.18E-02	1.27E-02	1.11E-02	1.11E+00
BP-14-SUR	Americium-243	-8.65E-04	U	1.25E-02	2.68E-02	1.11E-02	1.11E+00
BP-15-SUR	Americium-243	4.79E-03	U	9.41E-03	2.01E-02	1.11E-02	1.11E+00
BP-16-SUR	Americium-243	7.28E-03	U	1.21E-02	2.34E-02	1.11E-02	1.11E+00
BP-17-SUR	Americium-243	8.19E-03	U	1.17E-02	1.98E-02	1.11E-02	1.11E+00
BP-18-SUR	Americium-243	4.66E-03	U	1.31E-02	3.13E-02	1.11E-02	1.11E+00
BP-19-SUR	Americium-243	4.29E-03	U	1.37E-02	1.48E-02	1.11E-02	1.11E+00
BP-20-SUR	Americium-243	7.31E-03	U	1.52E-02	3.26E-02	1.11E-02	1.11E+00
BP-21-SUR	Americium-243	5.47E-03	U	1.07E-02	2.30E-02	1.11E-02	1.11E+00
BP-22-SUR	Americium-243	5.59E-03	U	1.29E-02	2.91E-02	1.11E-02	1.11E+00
BP-23-SUR	Americium-243	-1.14E-03	U	1.19E-02	2.02E-02	1.11E-02	1.11E+00
BP-24-SUR	Americium-243	-1.94E-04	U	1.22E-02	2.91E-02	1.11E-02	1.11E+00
BP-25-SUR	Americium-243	3.92E-03	U	1.23E-02	3.01E-02	1.11E-02	1.11E+00
BP-26-SUR	Americium-243	1.88E-03	U	1.26E-02	2.91E-02	1.11E-02	1.11E+00
BP-27-SUR	Americium-243	0.00E+00	U	1.44E-02	1.56E-02	1.11E-02	1.11E+00
BP-28-SUR	Americium-243	-1.58E-03	U	8.09E-03	2.06E-02	1.11E-02	1.11E+00
BP-29-SUR	Americium-243	-2.56E-04	U	1.21E-02	2.58E-02	1.11E-02	1.11E+00
BP-30-SUR	Americium-243	-1.18E-03	U	1.23E-02	2.80E-02	1.11E-02	1.11E+00
BP-31-SUR	Americium-243	2.12E-03	U	1.25E-02	2.12E-02	1.11E-02	1.11E+00
BP-32-SUR	Americium-243	-2.29E-03	U	1.31E-02	3.13E-02	1.11E-02	1.11E+00
BP-33-SUR	Americium-243	1.34E-02	U	1.79E-02	3.37E-02	1.11E-02	1.11E+00
BP-34-SUR	Americium-243	4.69E-03	U	1.13E-02	2.42E-02	1.11E-02	1.11E+00
BP-35-SUR	Americium-243	4.82E-04	U	9.20E-03	1.85E-02	1.11E-02	1.11E+00
BP-36-SUR	Americium-243	4.49E-03	U	9.56E-03	2.11E-02	1.11E-02	1.11E+00
BP-37-SUR	Americium-243	9.71E-04	U	9.26E-03	2.21E-02	1.11E-02	1.11E+00
BP-38-SUR	Americium-243	8.14E-04	U	1.00E-02	1.95E-02	1.11E-02	1.11E+00
BP-39-SUR	Americium-243	7.44E-03	U	1.11E-02	2.25E-02	1.11E-02	1.11E+00
BP-40-SUR	Americium-243	2.51E-03	U	9.61E-03	1.06E-02	1.11E-02	1.11E+00
BP-41-SUR	Americium-243	6.14E-03	U	1.18E-02	1.29E-02	1.11E-02	1.11E+00
BP-42-SUR	Americium-243	2.56E-03	U	9.59E-03	1.93E-02	1.11E-02	1.11E+00

Table 6.4 - Americium-243 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Americium-243	1.10E-04	U	8.43E-03	2.13E-02	1.11E-02	1.11E+00
BP-44-SUR	Americium-243	2.14E-03	U	9.41E-03	2.05E-02	1.11E-02	1.11E+00
BP-45-SUR	Americium-243	6.63E-03	U	1.08E-02	1.72E-02	1.11E-02	1.11E+00
BP-46-SUR	Americium-243	9.95E-03	U	1.12E-02	1.84E-02	1.11E-02	1.11E+00
BP-47-SUR	Americium-243	-9.59E-04	U	1.05E-02	1.78E-02	1.11E-02	1.11E+00
BP-48-SUR	Americium-243	5.79E-03	U	9.75E-03	2.07E-02	1.11E-02	1.11E+00
BP-49-SUR	Americium-243	4.49E-03	U	1.04E-02	2.37E-02	1.11E-02	1.11E+00
BP-50-SUR	Americium-243	5.01E-04	U	9.57E-03	1.93E-02	1.11E-02	1.11E+00
BP-51-SUR	Americium-243	4.18E-03	U	8.88E-03	1.96E-02	1.11E-02	1.11E+00
BP-52-SUR	Americium-243	9.81E-04	U	9.37E-03	2.24E-02	1.11E-02	1.11E+00
BP-53-SUR	Americium-243	8.04E-03	U	9.91E-03	1.80E-02	1.11E-02	1.11E+00
BP-54-SUR	Americium-243	2.52E-03	U	9.83E-03	2.18E-02	1.11E-02	1.11E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Americium-243	8.19E-03	U	1.18E-02	1.98E-02	1.11E-02	1.11E+00
BP-4-SUB	Americium-243	1.01E-03	U	1.12E-02	2.68E-02	1.11E-02	1.11E+00
BP-5-SUB	Americium-243	-6.47E-03	U	1.36E-02	3.32E-02	1.11E-02	1.11E+00
BP-9-SUB	Americium-243	5.48E-03	U	1.08E-02	2.30E-02	1.11E-02	1.11E+00
BP-12-SUB	Americium-243	7.83E-03	U	1.28E-02	2.66E-02	1.11E-02	1.11E+00
BP-13-SUB	Americium-243	9.71E-03	U	1.15E-02	2.04E-02	1.11E-02	1.11E+00
BP-14-SUB	Americium-243	8.73E-03	U	1.10E-02	1.85E-02	1.11E-02	1.11E+00
BP-16-SUB	Americium-243	3.73E-03	U	1.10E-02	2.14E-02	1.11E-02	1.11E+00
BP-20-SUB	Americium-243	1.79E-03	U	1.05E-02	1.78E-02	1.11E-02	1.11E+00
BP-23-SUB	Americium-243	6.08E-03	U	1.15E-02	1.24E-02	1.11E-02	1.11E+00
BP-29-SUB	Americium-243	3.93E-03	U	9.03E-03	2.05E-02	1.11E-02	1.11E+00
BP-34-SUB	Americium-243	1.25E-02	U	1.64E-02	3.42E-02	1.11E-02	1.11E+00
BP-35-SUB	Americium-243	1.05E-02	U	1.32E-02	1.42E-02	1.11E-02	1.11E+00
BP-38-SUB	Americium-243	-2.81E-04	U	1.32E-02	2.83E-02	1.11E-02	1.11E+00
BP-43-SUB	Americium-243	9.83E-03	U	1.39E-02	2.72E-02	1.11E-02	1.11E+00
BP-45-SUB	Americium-243	6.93E-03	U	1.15E-02	2.23E-02	1.11E-02	1.11E+00
BP-46-SUB	Americium-243	4.21E-03	U	1.20E-02	2.31E-02	1.11E-02	1.11E+00
BP-48-SUB	Americium-243	9.31E-04	U	1.25E-02	2.44E-02	1.11E-02	1.11E+00
BP-50-SUB	Americium-243	5.04E-03	U	1.43E-02	3.44E-02	1.11E-02	1.11E+00
BP-51-SUB	Americium-243	-2.23E-03	U	1.27E-02	3.05E-02	1.11E-02	1.11E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.5 - Antimony-125 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Antimony-125	1.56E-01	KS	2.15E-02	2.63E-02	4.60E-01	4.60E+01
LR-2-SUR	Antimony-125	1.48E-01	KS	2.09E-02	2.63E-02	4.60E-01	4.60E+01
LR-3-SUR	Antimony-125	1.62E-01	KS	2.23E-02	2.68E-02	4.60E-01	4.60E+01
LR-4-SUR	Antimony-125	1.56E-01	KS	2.20E-02	2.42E-02	4.60E-01	4.60E+01
LR-5-SUR	Antimony-125	1.54E-01	KS	2.13E-02	2.68E-02	4.60E-01	4.60E+01
LR-6-SUR	Antimony-125	1.48E-01	KS	2.12E-02	2.73E-02	4.60E-01	4.60E+01
LR-7-SUR	Antimony-125	1.57E-01	KS	2.17E-02	2.60E-02	4.60E-01	4.60E+01
LR-8-SUR	Antimony-125	1.41E-01	KS	1.99E-02	2.50E-02	4.60E-01	4.60E+01
LR-9-SUR	Antimony-125	1.56E-01	KS	2.18E-02	2.20E-02	4.60E-01	4.60E+01
LR-10-SUR	Antimony-125	1.74E-01	KS	2.57E-02	2.30E-02	4.60E-01	4.60E+01
LR-11-SUR	Antimony-125	1.64E-01	KS	2.40E-02	2.48E-02	4.60E-01	4.60E+01
LR-12-SUR	Antimony-125	1.44E-01	KS	2.05E-02	2.58E-02	4.60E-01	4.60E+01
LR-13-SUR	Antimony-125	1.50E-01	KS	2.10E-02	2.24E-02	4.60E-01	4.60E+01
LR-14-SUR	Antimony-125	1.08E-01	KS	1.57E-02	2.50E-02	4.60E-01	4.60E+01
LR-15-SUR	Antimony-125	1.63E-01	KS	2.25E-02	2.67E-02	4.60E-01	4.60E+01
LR-16-SUR	Antimony-125	1.48E-01	KS	2.00E-02	2.53E-02	4.60E-01	4.60E+01
LR-17-SUR	Antimony-125	1.59E-01	KS	2.14E-02	2.29E-02	4.60E-01	4.60E+01
LR-18-SUR	Antimony-125	1.66E-01	KS	2.25E-02	2.10E-02	4.60E-01	4.60E+01
LR-19-SUR	Antimony-125	1.65E-01	KS	2.29E-02	2.71E-02	4.60E-01	4.60E+01
LR-20-SUR	Antimony-125	1.65E-01	KS	2.30E-02	2.79E-02	4.60E-01	4.60E+01
LR-21-SUR	Antimony-125	1.63E-01	KS	2.26E-02	2.74E-02	4.60E-01	4.60E+01
LR-22-SUR	Antimony-125	1.67E-01	KS	2.28E-02	2.46E-02	4.60E-01	4.60E+01
LR-23-SUR	Antimony-125	1.60E-01	KS	2.17E-02	2.56E-02	4.60E-01	4.60E+01
LR-24-SUR	Antimony-125	1.51E-01	KS	2.11E-02	2.60E-02	4.60E-01	4.60E+01
LR-25-SUR	Antimony-125	1.46E-01	KS	2.06E-02	2.49E-02	4.60E-01	4.60E+01
LR-26-SUR	Antimony-125	1.71E-01	KS	2.86E-02	2.68E-02	4.60E-01	4.60E+01
LR-27-SUR	Antimony-125	1.49E-01	KS	2.08E-02	2.53E-02	4.60E-01	4.60E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Antimony-125	1.67E-01	KS	2.26E-02	2.74E-02	4.60E-01	4.60E+01
LR-4-SUB	Antimony-125	1.69E-01	KS	2.24E-02	2.52E-02	4.60E-01	4.60E+01
LR-9-SUB	Antimony-125	1.79E-01	KS	2.35E-02	2.60E-02	4.60E-01	4.60E+01
LR-13-SUB	Antimony-125	1.78E-01	KS	2.38E-02	1.80E-02	4.60E-01	4.60E+01
LR-15-SUB	Antimony-125	2.04E-01	KS	2.86E-02	3.15E-02	4.60E-01	4.60E+01
LR-18-SUB	Antimony-125	1.87E-01	KS	2.63E-02	2.99E-02	4.60E-01	4.60E+01
LR-19-SUB	Antimony-125	1.97E-01	KS	2.75E-02	3.02E-02	4.60E-01	4.60E+01
LR-23-SUB	Antimony-125	2.33E-01	KS	3.19E-02	3.24E-02	4.60E-01	4.60E+01
LR-24-SUB	Antimony-125	1.73E-01	KS	2.46E-02	2.82E-02	4.60E-01	4.60E+01
LR-26-SUB	Antimony-125	1.87E-01	KS	2.58E-02	2.89E-02	4.60E-01	4.60E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Antimony-125	1.19E-01	KS	1.73E-02	1.99E-02	4.60E-01	4.60E+01
RP-2-SUR	Antimony-125	1.19E-01	KS	1.72E-02	2.12E-02	4.60E-01	4.60E+01
RP-3-SUR	Antimony-125	1.27E-01	KS	1.90E-02	1.83E-02	4.60E-01	4.60E+01
RP-4-SUR	Antimony-125	1.19E-01	KS	1.73E-02	2.20E-02	4.60E-01	4.60E+01
RP-5-SUR	Antimony-125	1.21E-01	KS	1.77E-02	2.26E-02	4.60E-01	4.60E+01
RP-6-SUR	Antimony-125	1.16E-01	KS	1.75E-02	2.29E-02	4.60E-01	4.60E+01
RP-7-SUR	Antimony-125	1.26E-01	KS	1.92E-02	2.31E-02	4.60E-01	4.60E+01
RP-8-SUR	Antimony-125	1.32E-01	KS	2.04E-02	2.68E-02	4.60E-01	4.60E+01
RP-9-SUR	Antimony-125	1.21E-01	KS	1.62E-02	2.11E-02	4.60E-01	4.60E+01
RP-10-SUR	Antimony-125	1.19E-01	KS	1.74E-02	2.33E-02	4.60E-01	4.60E+01
RP-11-SUR	Antimony-125	1.43E-01	KS	2.10E-02	2.60E-02	4.60E-01	4.60E+01
RP-12-SUR	Antimony-125	9.11E-02	KS	1.31E-02	2.16E-02	4.60E-01	4.60E+01
RP-13-SUR	Antimony-125	1.06E-01	KS	1.56E-02	2.09E-02	4.60E-01	4.60E+01
RP-14-SUR	Antimony-125	1.20E-01	KS	1.72E-02	2.17E-02	4.60E-01	4.60E+01
RP-15-SUR	Antimony-125	1.17E-01	KS	1.99E-02	2.23E-02	4.60E-01	4.60E+01
RP-16-SUR	Antimony-125	1.10E-01	KS	1.60E-02	2.08E-02	4.60E-01	4.60E+01
RP-17-SUR	Antimony-125	1.15E-01	KS	1.67E-02	2.21E-02	4.60E-01	4.60E+01
RP-18-SUR	Antimony-125	1.18E-01	KS	1.72E-02	2.09E-02	4.60E-01	4.60E+01
RP-19-SUR	Antimony-125	1.22E-01	KS	1.77E-02	2.20E-02	4.60E-01	4.60E+01
RP-20-SUR	Antimony-125	1.52E-01	KS	2.23E-02	2.67E-02	4.60E-01	4.60E+01
RP-21-SUR	Antimony-125	1.28E-01	KS	2.20E-02	1.99E-02	4.60E-01	4.60E+01

Table 6.5 - Antimony-125 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Antimony-125	1.12E-01	KS	1.66E-02	2.21E-02	4.60E-01	4.60E+01
RP-23-SUR	Antimony-125	1.52E-02	BKS	1.31E-02	2.14E-02	4.60E-01	4.60E+01
RP-24-SUR	Antimony-125	1.08E-01	KS	1.61E-02	2.10E-02	4.60E-01	4.60E+01
RP-25-SUR	Antimony-125	1.21E-01	KS	1.78E-02	2.07E-02	4.60E-01	4.60E+01
RP-26-SUR	Antimony-125	1.19E-01	KS	1.74E-02	2.33E-02	4.60E-01	4.60E+01
RP-27-SUR	Antimony-125	1.51E-01	KS	2.24E-02	2.29E-02	4.60E-01	4.60E+01
RP-28-SUR	Antimony-125	1.30E-01	KS	1.87E-02	2.43E-02	4.60E-01	4.60E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Antimony-125	1.14E-01	KS	1.65E-02	2.05E-02	4.60E-01	4.60E+01
RP-5-SUB	Antimony-125	1.29E-01	KS	1.84E-02	2.41E-02	4.60E-01	4.60E+01
RP-7-SUB	Antimony-125	1.19E-01	KS	1.76E-02	2.37E-02	4.60E-01	4.60E+01
RP-12-SUB	Antimony-125	1.09E-01	KS	1.61E-02	2.12E-02	4.60E-01	4.60E+01
RP-13-SUB	Antimony-125	1.33E-01	KS	1.90E-02	2.30E-02	4.60E-01	4.60E+01
RP-17-SUB	Antimony-125	1.41E-01	KS	1.94E-02	2.29E-02	4.60E-01	4.60E+01
RP-18-SUB	Antimony-125	1.49E-01	KS	2.03E-02	1.95E-02	4.60E-01	4.60E+01
RP-19-SUB	Antimony-125	1.27E-01	KS	1.81E-02	2.31E-02	4.60E-01	4.60E+01
RP-20-SUB	Antimony-125	1.65E-02	BKS	1.37E-02	1.65E-02	4.60E-01	4.60E+01
RP-28-SUB	Antimony-125	1.22E-01	KS	1.76E-02	2.31E-02	4.60E-01	4.60E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Antimony-125	2.00E-01	KS	2.59E-02	2.72E-02	4.60E-01	4.60E+01
BP-2-SUR	Antimony-125	1.66E-01	KS	2.17E-02	2.72E-02	4.60E-01	4.60E+01
BP-3-SUR	Antimony-125	2.16E-01	KS	2.79E-02	2.81E-02	4.60E-01	4.60E+01
BP-4-SUR	Antimony-125	2.27E-01	KS	2.90E-02	2.82E-02	4.60E-01	4.60E+01
BP-5-SUR	Antimony-125	2.49E-01	KS	3.15E-02	2.70E-02	4.60E-01	4.60E+01
BP-6-SUR	Antimony-125	3.12E-02	BKS	2.44E-02	2.56E-02	4.60E-01	4.60E+01
BP-7-SUR	Antimony-125	2.29E-01	KS	2.95E-02	3.03E-02	4.60E-01	4.60E+01
BP-8-SUR	Antimony-125	2.29E-01	KS	2.94E-02	2.89E-02	4.60E-01	4.60E+01
BP-9-SUR	Antimony-125	2.23E-01	KS	2.86E-02	2.93E-02	4.60E-01	4.60E+01
BP-10-SUR	Antimony-125	2.35E-01	KS	2.99E-02	2.90E-02	4.60E-01	4.60E+01
BP-11-SUR	Antimony-125	2.22E-01	KS	2.84E-02	2.86E-02	4.60E-01	4.60E+01
BP-12-SUR	Antimony-125	3.63E-02	KS	2.17E-02	2.34E-02	4.60E-01	4.60E+01
BP-13-SUR	Antimony-125	2.44E-01	KS	3.56E-02	3.00E-02	4.60E-01	4.60E+01
BP-14-SUR	Antimony-125	1.89E-01	KS	2.52E-02	2.68E-02	4.60E-01	4.60E+01
BP-15-SUR	Antimony-125	1.74E-01	KS	2.25E-02	2.79E-02	4.60E-01	4.60E+01
BP-16-SUR	Antimony-125	1.99E-01	KS	2.59E-02	2.81E-02	4.60E-01	4.60E+01
BP-17-SUR	Antimony-125	2.06E-01	KS	2.66E-02	2.84E-02	4.60E-01	4.60E+01
BP-18-SUR	Antimony-125	2.22E-01	KS	2.84E-02	2.73E-02	4.60E-01	4.60E+01
BP-19-SUR	Antimony-125	2.27E-01	KS	2.78E-02	2.76E-02	4.60E-01	4.60E+01
BP-20-SUR	Antimony-125	2.30E-01	KS	2.94E-02	2.92E-02	4.60E-01	4.60E+01
BP-21-SUR	Antimony-125	1.97E-01	KS	2.56E-02	2.96E-02	4.60E-01	4.60E+01
BP-22-SUR	Antimony-125	2.24E-01	KS	2.75E-02	2.77E-02	4.60E-01	4.60E+01
BP-23-SUR	Antimony-125	2.17E-01	KS	2.68E-02	2.87E-02	4.60E-01	4.60E+01
BP-24-SUR	Antimony-125	2.30E-01	KS	2.86E-02	2.35E-02	4.60E-01	4.60E+01
BP-25-SUR	Antimony-125	1.78E-01	KS	2.28E-02	2.44E-02	4.60E-01	4.60E+01
BP-26-SUR	Antimony-125	1.97E-01	KS	2.47E-02	2.25E-02	4.60E-01	4.60E+01
BP-27-SUR	Antimony-125	2.07E-01	KS	2.60E-02	2.92E-02	4.60E-01	4.60E+01
BP-28-SUR	Antimony-125	2.60E-02	BKS	1.83E-02	2.16E-02	4.60E-01	4.60E+01
BP-29-SUR	Antimony-125	1.89E-01	KS	2.42E-02	2.52E-02	4.60E-01	4.60E+01
BP-30-SUR	Antimony-125	2.14E-01	KS	2.90E-02	2.28E-02	4.60E-01	4.60E+01
BP-31-SUR	Antimony-125	1.73E-01	KS	2.14E-02	2.85E-02	4.60E-01	4.60E+01
BP-32-SUR	Antimony-125	2.25E-01	KS	2.75E-02	2.93E-02	4.60E-01	4.60E+01
BP-33-SUR	Antimony-125	2.00E-01	KS	2.70E-02	2.58E-02	4.60E-01	4.60E+01
BP-34-SUR	Antimony-125	2.36E-01	KS	2.91E-02	2.36E-02	4.60E-01	4.60E+01
BP-35-SUR	Antimony-125	2.05E-01	KS	2.78E-02	2.59E-02	4.60E-01	4.60E+01
BP-36-SUR	Antimony-125	2.15E-01	KS	2.92E-02	2.84E-02	4.60E-01	4.60E+01
BP-37-SUR	Antimony-125	1.93E-01	KS	2.68E-02	2.87E-02	4.60E-01	4.60E+01
BP-38-SUR	Antimony-125	1.85E-01	KS	2.59E-02	2.77E-02	4.60E-01	4.60E+01
BP-39-SUR	Antimony-125	1.78E-01	KS	2.50E-02	2.72E-02	4.60E-01	4.60E+01
BP-40-SUR	Antimony-125	1.80E-01	KS	2.51E-02	2.82E-02	4.60E-01	4.60E+01
BP-41-SUR	Antimony-125	1.94E-01	KS	2.50E-02	2.81E-02	4.60E-01	4.60E+01
BP-42-SUR	Antimony-125	1.92E-01	KS	2.67E-02	2.81E-02	4.60E-01	4.60E+01

Table 6.5 - Antimony-125 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Antimony-125	2.00E-01	KS	2.52E-02	2.83E-02	4.60E-01	4.60E+01
BP-44-SUR	Antimony-125	2.07E-01	KS	2.80E-02	2.71E-02	4.60E-01	4.60E+01
BP-45-SUR	Antimony-125	1.92E-01	KS	2.43E-02	2.68E-02	4.60E-01	4.60E+01
BP-46-SUR	Antimony-125	1.80E-01	KS	2.45E-02	2.78E-02	4.60E-01	4.60E+01
BP-47-SUR	Antimony-125	2.22E-01	KS	2.62E-02	2.46E-02	4.60E-01	4.60E+01
BP-48-SUR	Antimony-125	3.07E-02	BKS	2.28E-02	2.48E-02	4.60E-01	4.60E+01
BP-49-SUR	Antimony-125	2.13E-01	KS	2.53E-02	2.45E-02	4.60E-01	4.60E+01
BP-50-SUR	Antimony-125	2.06E-01	KS	2.82E-02	2.75E-02	4.60E-01	4.60E+01
BP-51-SUR	Antimony-125	2.05E-01	KS	2.44E-02	2.38E-02	4.60E-01	4.60E+01
BP-52-SUR	Antimony-125	1.70E-01	KS	2.12E-02	2.26E-02	4.60E-01	4.60E+01
BP-53-SUR	Antimony-125	1.76E-01	KS	2.52E-02	2.81E-02	4.60E-01	4.60E+01
BP-54-SUR	Antimony-125	1.51E-01	KS	1.89E-02	2.12E-02	4.60E-01	4.60E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Antimony-125	1.72E-01	KS	2.14E-02	2.37E-02	4.60E-01	4.60E+01
BP-4-SUB	Antimony-125	1.93E-01	KS	2.66E-02	2.78E-02	4.60E-01	4.60E+01
BP-5-SUB	Antimony-125	1.90E-01	KS	2.64E-02	2.67E-02	4.60E-01	4.60E+01
BP-9-SUB	Antimony-125	2.21E-01	KS	2.57E-02	2.31E-02	4.60E-01	4.60E+01
BP-12-SUB	Antimony-125	2.07E-01	KS	2.77E-02	2.74E-02	4.60E-01	4.60E+01
BP-13-SUB	Antimony-125	2.33E-01	KS	2.85E-02	2.65E-02	4.60E-01	4.60E+01
BP-14-SUB	Antimony-125	1.57E-01	KS	2.31E-02	2.69E-02	4.60E-01	4.60E+01
BP-16-SUB	Antimony-125	2.35E-01	KS	2.73E-02	2.33E-02	4.60E-01	4.60E+01
BP-20-SUB	Antimony-125	1.70E-01	KS	2.42E-02	2.70E-02	4.60E-01	4.60E+01
BP-23-SUB	Antimony-125	1.54E-01	KS	1.83E-02	1.83E-02	4.60E-01	4.60E+01
BP-29-SUB	Antimony-125	1.57E-01	US	2.91E-01	4.01E-01	4.60E-01	4.60E+01
BP-34-SUB	Antimony-125	2.43E-01	KS	3.22E-02	2.97E-02	4.60E-01	4.60E+01
BP-35-SUB	Antimony-125	2.33E-01	KS	2.70E-02	2.34E-02	4.60E-01	4.60E+01
BP-38-SUB	Antimony-125	1.68E-01	KS	2.43E-02	2.90E-02	4.60E-01	4.60E+01
BP-43-SUB	Antimony-125	1.11E-01	KS	1.79E-02	2.74E-02	4.60E-01	4.60E+01
BP-45-SUB	Antimony-125	2.23E-01	KS	2.97E-02	2.85E-02	4.60E-01	4.60E+01
BP-46-SUB	Antimony-125	2.31E-01	KS	2.88E-02	3.20E-02	4.60E-01	4.60E+01
BP-48-SUB	Antimony-125	1.89E-01	KS	2.63E-02	2.76E-02	4.60E-01	4.60E+01
BP-50-SUB	Antimony-125	1.87E-01	KS	2.34E-02	2.70E-02	4.60E-01	4.60E+01
BP-51-SUB	Antimony-125	2.63E-01	KS	3.42E-02	2.92E-02	4.60E-01	4.60E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.6 - Barium-137m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Barium-137m	1.38E-01		1.60E-02	6.37E-03	1.78E+05	1.78E+07
LR-2-SUR	Barium-137m	1.22E-01		1.43E-02	6.35E-03	1.78E+05	1.78E+07
LR-3-SUR	Barium-137m	8.18E-02		1.02E-02	6.44E-03	1.78E+05	1.78E+07
LR-4-SUR	Barium-137m	7.82E-02		9.77E-03	6.23E-03	1.78E+05	1.78E+07
LR-5-SUR	Barium-137m	8.76E-02		1.19E-02	6.86E-03	1.78E+05	1.78E+07
LR-6-SUR	Barium-137m	9.32E-02		1.14E-02	6.43E-03	1.78E+05	1.78E+07
LR-7-SUR	Barium-137m	1.07E-01		1.27E-02	6.30E-03	1.78E+05	1.78E+07
LR-8-SUR	Barium-137m	1.07E-01		1.27E-02	6.16E-03	1.78E+05	1.78E+07
LR-9-SUR	Barium-137m	9.33E-02		1.14E-02	6.47E-03	1.78E+05	1.78E+07
LR-10-SUR	Barium-137m	9.30E-02		1.14E-02	6.74E-03	1.78E+05	1.78E+07
LR-11-SUR	Barium-137m	1.17E-01		1.39E-02	6.71E-03	1.78E+05	1.78E+07
LR-12-SUR	Barium-137m	1.10E-01		1.31E-02	6.33E-03	1.78E+05	1.78E+07
LR-13-SUR	Barium-137m	1.41E-01		1.63E-02	6.05E-03	1.78E+05	1.78E+07
LR-14-SUR	Barium-137m	8.93E-02		1.08E-02	6.05E-03	1.78E+05	1.78E+07
LR-15-SUR	Barium-137m	1.23E-01		1.45E-02	6.91E-03	1.78E+05	1.78E+07
LR-16-SUR	Barium-137m	7.32E-02		9.18E-03	6.03E-03	1.78E+05	1.78E+07
LR-17-SUR	Barium-137m	8.84E-02		1.06E-02	5.60E-03	1.78E+05	1.78E+07
LR-18-SUR	Barium-137m	6.53E-02		8.52E-03	6.37E-03	1.78E+05	1.78E+07
LR-19-SUR	Barium-137m	9.55E-02		1.16E-02	6.69E-03	1.78E+05	1.78E+07
LR-20-SUR	Barium-137m	8.10E-02		1.02E-02	6.71E-03	1.78E+05	1.78E+07
LR-21-SUR	Barium-137m	1.21E-01		1.43E-02	6.70E-03	1.78E+05	1.78E+07
LR-22-SUR	Barium-137m	9.42E-02		1.14E-02	6.39E-03	1.78E+05	1.78E+07
LR-23-SUR	Barium-137m	1.11E-01		1.31E-02	6.29E-03	1.78E+05	1.78E+07
LR-24-SUR	Barium-137m	7.86E-02		9.80E-03	6.23E-03	1.78E+05	1.78E+07
LR-25-SUR	Barium-137m	1.22E-01		1.44E-02	6.39E-03	1.78E+05	1.78E+07
LR-26-SUR	Barium-137m	1.16E-01		1.37E-02	6.43E-03	1.78E+05	1.78E+07
LR-27-SUR	Barium-137m	1.36E-01		1.58E-02	6.25E-03	1.78E+05	1.78E+07
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Barium-137m	-4.73E-03	U	5.59E-03	8.87E-03	1.78E+05	1.78E+07
LR-4-SUB	Barium-137m	3.25E-03		3.03E-03	4.93E-03	1.78E+05	1.78E+07
LR-9-SUB	Barium-137m	2.98E-03	U	3.33E-03	5.46E-03	1.78E+05	1.78E+07
LR-13-SUB	Barium-137m	-7.25E-03	UL	5.38E-03	8.72E-03	1.78E+05	1.78E+07
LR-15-SUB	Barium-137m	-3.38E-03	U	7.09E-03	9.37E-03	1.78E+05	1.78E+07
LR-18-SUB	Barium-137m	3.03E-03	U	3.77E-03	6.20E-03	1.78E+05	1.78E+07
LR-19-SUB	Barium-137m	2.25E-03	U	3.79E-03	6.27E-03	1.78E+05	1.78E+07
LR-23-SUB	Barium-137m	-8.32E-05	U	8.72E-03	9.52E-03	1.78E+05	1.78E+07
LR-24-SUB	Barium-137m	-4.18E-04	U	5.09E-03	8.46E-03	1.78E+05	1.78E+07
LR-26-SUB	Barium-137m	-4.75E-03	U	5.20E-03	8.52E-03	1.78E+05	1.78E+07
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Barium-137m	3.84E-02		5.56E-03	5.21E-03	1.78E+05	1.78E+07
RP-2-SUR	Barium-137m	2.98E-02		6.02E-03	5.40E-03	1.78E+05	1.78E+07
RP-3-SUR	Barium-137m	4.85E-02		7.15E-03	5.01E-03	1.78E+05	1.78E+07
RP-4-SUR	Barium-137m	3.07E-02		5.58E-03	4.98E-03	1.78E+05	1.78E+07
RP-5-SUR	Barium-137m	1.71E-01		2.00E-02	6.30E-03	1.78E+05	1.78E+07
RP-6-SUR	Barium-137m	1.03E-01		1.21E-02	5.54E-03	1.78E+05	1.78E+07
RP-7-SUR	Barium-137m	7.52E-02		1.07E-02	6.19E-03	1.78E+05	1.78E+07
RP-8-SUR	Barium-137m	1.06E-01		1.35E-02	6.14E-03	1.78E+05	1.78E+07
RP-9-SUR	Barium-137m	9.81E-02		1.06E-02	4.56E-03	1.78E+05	1.78E+07
RP-10-SUR	Barium-137m	1.13E-01		1.39E-02	5.95E-03	1.78E+05	1.78E+07
RP-11-SUR	Barium-137m	4.25E-02		5.93E-03	5.13E-03	1.78E+05	1.78E+07
RP-12-SUR	Barium-137m	5.69E-02		7.29E-03	5.14E-03	1.78E+05	1.78E+07
RP-13-SUR	Barium-137m	3.71E-02		6.49E-03	5.28E-03	1.78E+05	1.78E+07
RP-14-SUR	Barium-137m	6.49E-02		8.11E-03	5.23E-03	1.78E+05	1.78E+07
RP-15-SUR	Barium-137m	8.23E-02		9.90E-03	5.24E-03	1.78E+05	1.78E+07
RP-16-SUR	Barium-137m	1.43E-01		1.70E-02	5.78E-03	1.78E+05	1.78E+07
RP-17-SUR	Barium-137m	1.34E-01		1.65E-02	6.49E-03	1.78E+05	1.78E+07
RP-18-SUR	Barium-137m	9.78E-02		1.27E-02	6.12E-03	1.78E+05	1.78E+07
RP-19-SUR	Barium-137m	5.12E-02		7.76E-03	5.55E-03	1.78E+05	1.78E+07
RP-20-SUR	Barium-137m	5.34E-02		7.94E-03	5.52E-03	1.78E+05	1.78E+07
RP-21-SUR	Barium-137m	9.41E-03		3.28E-03	4.96E-03	1.78E+05	1.78E+07

Table 6.6 - Barium-137m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Barium-137m	7.42E-02		1.02E-02	5.92E-03	1.78E+05	1.78E+07
RP-23-SUR	Barium-137m	1.00E-01		1.36E-02	7.00E-03	1.78E+05	1.78E+07
RP-24-SUR	Barium-137m	1.49E-01		1.80E-02	6.57E-03	1.78E+05	1.78E+07
RP-25-SUR	Barium-137m	1.12E-01		1.31E-02	5.48E-03	1.78E+05	1.78E+07
RP-26-SUR	Barium-137m	4.53E-02		6.25E-03	5.33E-03	1.78E+05	1.78E+07
RP-27-SUR	Barium-137m	1.00E-01		1.19E-02	5.61E-03	1.78E+05	1.78E+07
RP-28-SUR	Barium-137m	6.03E-02		7.85E-03	5.80E-03	1.78E+05	1.78E+07
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Barium-137m	-3.34E-03	U	4.30E-03	7.06E-03	1.78E+05	1.78E+07
RP-5-SUB	Barium-137m	-2.68E-03	U	4.55E-03	7.51E-03	1.78E+05	1.78E+07
RP-7-SUB	Barium-137m	3.92E-03		3.34E-03	5.43E-03	1.78E+05	1.78E+07
RP-12-SUB	Barium-137m	8.75E-03		3.24E-03	4.95E-03	1.78E+05	1.78E+07
RP-13-SUB	Barium-137m	3.56E-03		3.05E-03	4.96E-03	1.78E+05	1.78E+07
RP-17-SUB	Barium-137m	6.16E-03		3.86E-03	6.20E-03	1.78E+05	1.78E+07
RP-18-SUB	Barium-137m	3.46E-04	U	4.31E-03	7.16E-03	1.78E+05	1.78E+07
RP-19-SUB	Barium-137m	6.22E-04	U	4.40E-03	7.31E-03	1.78E+05	1.78E+07
RP-20-SUB	Barium-137m	-4.33E-03	U	5.55E-03	7.67E-03	1.78E+05	1.78E+07
RP-28-SUB	Barium-137m	3.43E-03		2.92E-03	4.76E-03	1.78E+05	1.78E+07
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Barium-137m	5.95E-02		9.58E-03	7.06E-03	1.78E+05	1.78E+07
BP-2-SUR	Barium-137m	8.04E-02		1.01E-02	6.75E-03	1.78E+05	1.78E+07
BP-3-SUR	Barium-137m	6.04E-02		8.13E-03	6.70E-03	1.78E+05	1.78E+07
BP-4-SUR	Barium-137m	8.37E-02		1.22E-02	7.87E-03	1.78E+05	1.78E+07
BP-5-SUR	Barium-137m	5.25E-02		7.46E-03	6.89E-03	1.78E+05	1.78E+07
BP-6-SUR	Barium-137m	7.03E-02		9.17E-03	6.98E-03	1.78E+05	1.78E+07
BP-7-SUR	Barium-137m	8.04E-02		1.02E-02	7.08E-03	1.78E+05	1.78E+07
BP-8-SUR	Barium-137m	9.27E-02		1.14E-02	6.83E-03	1.78E+05	1.78E+07
BP-9-SUR	Barium-137m	8.99E-02		1.11E-02	6.95E-03	1.78E+05	1.78E+07
BP-10-SUR	Barium-137m	7.42E-02		9.55E-03	6.97E-03	1.78E+05	1.78E+07
BP-11-SUR	Barium-137m	4.51E-02		8.45E-03	7.08E-03	1.78E+05	1.78E+07
BP-12-SUR	Barium-137m	7.60E-02		9.67E-03	6.76E-03	1.78E+05	1.78E+07
BP-13-SUR	Barium-137m	7.36E-02		9.21E-03	7.58E-03	1.78E+05	1.78E+07
BP-14-SUR	Barium-137m	1.04E-01		1.24E-02	6.42E-03	1.78E+05	1.78E+07
BP-15-SUR	Barium-137m	4.45E-02		9.09E-03	7.61E-03	1.78E+05	1.78E+07
BP-16-SUR	Barium-137m	6.05E-02		8.06E-03	6.37E-03	1.78E+05	1.78E+07
BP-17-SUR	Barium-137m	6.34E-02		8.43E-03	6.72E-03	1.78E+05	1.78E+07
BP-18-SUR	Barium-137m	9.61E-02		1.16E-02	6.55E-03	1.78E+05	1.78E+07
BP-19-SUR	Barium-137m	8.81E-02		1.03E-02	7.01E-03	1.78E+05	1.78E+07
BP-20-SUR	Barium-137m	1.07E-01		1.43E-02	7.66E-03	1.78E+05	1.78E+07
BP-21-SUR	Barium-137m	8.04E-02		1.02E-02	7.07E-03	1.78E+05	1.78E+07
BP-22-SUR	Barium-137m	6.98E-02		1.06E-02	7.93E-03	1.78E+05	1.78E+07
BP-23-SUR	Barium-137m	7.54E-02		1.18E-02	8.34E-03	1.78E+05	1.78E+07
BP-24-SUR	Barium-137m	8.20E-02		9.91E-03	7.39E-03	1.78E+05	1.78E+07
BP-25-SUR	Barium-137m	1.35E-01		1.58E-02	7.69E-03	1.78E+05	1.78E+07
BP-26-SUR	Barium-137m	9.02E-02		1.05E-02	6.95E-03	1.78E+05	1.78E+07
BP-27-SUR	Barium-137m	9.81E-02		1.32E-02	8.23E-03	1.78E+05	1.78E+07
BP-28-SUR	Barium-137m	9.92E-02		1.27E-02	7.29E-03	1.78E+05	1.78E+07
BP-29-SUR	Barium-137m	1.09E-01		1.38E-02	7.76E-03	1.78E+05	1.78E+07
BP-30-SUR	Barium-137m	6.68E-02		8.78E-03	6.78E-03	1.78E+05	1.78E+07
BP-31-SUR	Barium-137m	5.77E-02		9.53E-03	7.60E-03	1.78E+05	1.78E+07
BP-32-SUR	Barium-137m	4.25E-02		8.60E-03	7.62E-03	1.78E+05	1.78E+07
BP-33-SUR	Barium-137m	7.74E-02		1.15E-02	7.57E-03	1.78E+05	1.78E+07
BP-34-SUR	Barium-137m	7.56E-02		1.15E-02	8.21E-03	1.78E+05	1.78E+07
BP-35-SUR	Barium-137m	8.46E-02		1.06E-02	6.83E-03	1.78E+05	1.78E+07
BP-36-SUR	Barium-137m	9.20E-02		1.13E-02	6.79E-03	1.78E+05	1.78E+07
BP-37-SUR	Barium-137m	6.71E-02		1.05E-02	7.24E-03	1.78E+05	1.78E+07
BP-38-SUR	Barium-137m	7.99E-02		1.00E-02	6.49E-03	1.78E+05	1.78E+07
BP-39-SUR	Barium-137m	4.75E-02		6.84E-03	6.39E-03	1.78E+05	1.78E+07
BP-40-SUR	Barium-137m	5.38E-02		7.51E-03	6.64E-03	1.78E+05	1.78E+07
BP-41-SUR	Barium-137m	7.23E-02		8.90E-03	6.90E-03	1.78E+05	1.78E+07
BP-42-SUR	Barium-137m	4.00E-02		7.93E-03	6.74E-03	1.78E+05	1.78E+07

Table 6.6 - Barium-137m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Barium-137m	5.88E-02		9.07E-03	7.05E-03	1.78E+05	1.78E+07
BP-44-SUR	Barium-137m	1.42E-01		1.66E-02	6.69E-03	1.78E+05	1.78E+07
BP-45-SUR	Barium-137m	9.22E-02		1.29E-02	8.18E-03	1.78E+05	1.78E+07
BP-46-SUR	Barium-137m	1.08E-01		1.44E-02	7.44E-03	1.78E+05	1.78E+07
BP-47-SUR	Barium-137m	7.63E-02		8.91E-03	6.06E-03	1.78E+05	1.78E+07
BP-48-SUR	Barium-137m	8.94E-02		1.13E-02	7.51E-03	1.78E+05	1.78E+07
BP-49-SUR	Barium-137m	7.04E-02		1.02E-02	6.94E-03	1.78E+05	1.78E+07
BP-50-SUR	Barium-137m	4.85E-02		9.54E-03	7.61E-03	1.78E+05	1.78E+07
BP-51-SUR	Barium-137m	8.35E-02		1.10E-02	6.50E-03	1.78E+05	1.78E+07
BP-52-SUR	Barium-137m	1.67E-01		1.83E-02	6.23E-03	1.78E+05	1.78E+07
BP-53-SUR	Barium-137m	7.22E-02		1.18E-02	7.92E-03	1.78E+05	1.78E+07
BP-54-SUR	Barium-137m	5.53E-02		8.07E-03	5.63E-03	1.78E+05	1.78E+07
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Barium-137m	2.63E-03		2.63E-03	4.30E-03	1.78E+05	1.78E+07
BP-4-SUB	Barium-137m	-4.74E-03	U	5.24E-03	8.58E-03	1.78E+05	1.78E+07
BP-5-SUB	Barium-137m	-3.14E-03	U	5.20E-03	8.57E-03	1.78E+05	1.78E+07
BP-9-SUB	Barium-137m	-5.34E-03	UL	4.48E-03	7.31E-03	1.78E+05	1.78E+07
BP-12-SUB	Barium-137m	-5.58E-03	UL	5.12E-03	8.36E-03	1.78E+05	1.78E+07
BP-13-SUB	Barium-137m	-9.41E-03	RU	5.54E-03	8.90E-03	1.78E+05	1.78E+07
BP-14-SUB	Barium-137m	-3.03E-03	U	5.29E-03	8.50E-03	1.78E+05	1.78E+07
BP-16-SUB	Barium-137m	1.62E-02		3.97E-03	5.71E-03	1.78E+05	1.78E+07
BP-20-SUB	Barium-137m	-4.24E-03	U	5.31E-03	8.56E-03	1.78E+05	1.78E+07
BP-23-SUB	Barium-137m	-2.95E-04	U	3.29E-03	5.47E-03	1.78E+05	1.78E+07
BP-29-SUB	Barium-137m	-1.78E-02	U	8.50E-02	1.55E-01	1.78E+05	1.78E+07
BP-34-SUB	Barium-137m	-5.61E-03	U	5.70E-03	9.20E-03	1.78E+05	1.78E+07
BP-35-SUB	Barium-137m	-4.97E-03	UL	4.48E-03	7.31E-03	1.78E+05	1.78E+07
BP-38-SUB	Barium-137m	-3.18E-03	U	5.59E-03	8.98E-03	1.78E+05	1.78E+07
BP-43-SUB	Barium-137m	-6.12E-03	U	6.29E-03	8.68E-03	1.78E+05	1.78E+07
BP-45-SUB	Barium-137m	2.08E-03	U	3.81E-03	6.30E-03	1.78E+05	1.78E+07
BP-46-SUB	Barium-137m	-4.61E-03	U	8.02E-03	1.01E-02	1.78E+05	1.78E+07
BP-48-SUB	Barium-137m	-6.65E-03	UL	6.08E-03	8.69E-03	1.78E+05	1.78E+07
BP-50-SUB	Barium-137m	2.78E-05	U	4.77E-03	7.94E-03	1.78E+05	1.78E+07
BP-51-SUB	Barium-137m	-8.24E-03	UL	5.84E-03	9.36E-03	1.78E+05	1.78E+07

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.7 - Bismuth-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Bismuth-212	1.01E+00		1.39E-01	7.10E-02	2.24E+04	2.24E+06
LR-2-SUR	Bismuth-212	1.01E+00		1.35E-01	6.68E-02	2.24E+04	2.24E+06
LR-3-SUR	Bismuth-212	1.04E+00		1.45E-01	7.49E-02	2.24E+04	2.24E+06
LR-4-SUR	Bismuth-212	1.04E+00		1.44E-01	7.14E-02	2.24E+04	2.24E+06
LR-5-SUR	Bismuth-212	1.02E+00		1.38E-01	6.98E-02	2.24E+04	2.24E+06
LR-6-SUR	Bismuth-212	1.04E+00		1.43E-01	7.19E-02	2.24E+04	2.24E+06
LR-7-SUR	Bismuth-212	9.83E-01		1.32E-01	6.67E-02	2.24E+04	2.24E+06
LR-8-SUR	Bismuth-212	9.97E-01		1.30E-01	6.34E-02	2.24E+04	2.24E+06
LR-9-SUR	Bismuth-212	1.07E+00		1.42E-01	6.83E-02	2.24E+04	2.24E+06
LR-10-SUR	Bismuth-212	1.10E+00		1.45E-01	7.24E-02	2.24E+04	2.24E+06
LR-11-SUR	Bismuth-212	1.08E+00		1.50E-01	7.87E-02	2.24E+04	2.24E+06
LR-12-SUR	Bismuth-212	1.02E+00		1.34E-01	6.46E-02	2.24E+04	2.24E+06
LR-13-SUR	Bismuth-212	8.96E-01		1.17E-01	5.85E-02	2.24E+04	2.24E+06
LR-14-SUR	Bismuth-212	8.79E-01		1.17E-01	5.87E-02	2.24E+04	2.24E+06
LR-15-SUR	Bismuth-212	1.10E+00		1.61E-01	8.46E-02	2.24E+04	2.24E+06
LR-16-SUR	Bismuth-212	2.04E+00		2.79E-01	1.32E-01	2.24E+04	2.24E+06
LR-17-SUR	Bismuth-212	1.04E+00		1.36E-01	6.18E-02	2.24E+04	2.24E+06
LR-18-SUR	Bismuth-212	1.12E+00		1.53E-01	7.37E-02	2.24E+04	2.24E+06
LR-19-SUR	Bismuth-212	1.16E+00		1.51E-01	7.04E-02	2.24E+04	2.24E+06
LR-20-SUR	Bismuth-212	1.14E+00		1.52E-01	7.31E-02	2.24E+04	2.24E+06
LR-21-SUR	Bismuth-212	1.13E+00		1.47E-01	6.89E-02	2.24E+04	2.24E+06
LR-22-SUR	Bismuth-212	1.14E+00		1.45E-01	6.45E-02	2.24E+04	2.24E+06
LR-23-SUR	Bismuth-212	1.06E+00		1.47E-01	7.45E-02	2.24E+04	2.24E+06
LR-24-SUR	Bismuth-212	1.01E+00		1.21E-01	5.69E-02	2.24E+04	2.24E+06
LR-25-SUR	Bismuth-212	1.07E+00		1.47E-01	7.34E-02	2.24E+04	2.24E+06
LR-26-SUR	Bismuth-212	1.04E+00		1.44E-01	7.46E-02	2.24E+04	2.24E+06
LR-27-SUR	Bismuth-212	9.59E-01		1.26E-01	6.28E-02	2.24E+04	2.24E+06
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Bismuth-212	1.12E+00		1.43E-01	6.62E-02	2.24E+04	2.24E+06
LR-4-SUB	Bismuth-212	1.20E+00		1.55E-01	6.69E-02	2.24E+04	2.24E+06
LR-9-SUB	Bismuth-212	1.15E+00		1.43E-01	6.05E-02	2.24E+04	2.24E+06
LR-13-SUB	Bismuth-212	1.05E+00		1.47E-01	7.56E-02	2.24E+04	2.24E+06
LR-15-SUB	Bismuth-212	1.47E+00		1.83E-01	7.78E-02	2.24E+04	2.24E+06
LR-18-SUB	Bismuth-212	1.18E+00		1.59E-01	8.04E-02	2.24E+04	2.24E+06
LR-19-SUB	Bismuth-212	1.42E+00		1.88E-01	8.52E-02	2.24E+04	2.24E+06
LR-23-SUB	Bismuth-212	1.54E+00		1.92E-01	8.17E-02	2.24E+04	2.24E+06
LR-24-SUB	Bismuth-212	1.19E+00		1.50E-01	6.79E-02	2.24E+04	2.24E+06
LR-26-SUB	Bismuth-212	1.39E+00		1.81E-01	7.98E-02	2.24E+04	2.24E+06
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Bismuth-212	7.80E-01		1.10E-01	6.45E-02	2.24E+04	2.24E+06
RP-2-SUR	Bismuth-212	8.05E-01		1.11E-01	5.96E-02	2.24E+04	2.24E+06
RP-3-SUR	Bismuth-212	9.14E-01		1.11E-01	6.14E-02	2.24E+04	2.24E+06
RP-4-SUR	Bismuth-212	7.97E-01		1.15E-01	6.25E-02	2.24E+04	2.24E+06
RP-5-SUR	Bismuth-212	7.91E-01		1.05E-01	5.38E-02	2.24E+04	2.24E+06
RP-6-SUR	Bismuth-212	8.23E-01		1.24E-01	6.78E-02	2.24E+04	2.24E+06
RP-7-SUR	Bismuth-212	9.71E-01		1.35E-01	7.14E-02	2.24E+04	2.24E+06
RP-8-SUR	Bismuth-212	9.65E-01		1.34E-01	7.31E-02	2.24E+04	2.24E+06
RP-9-SUR	Bismuth-212	9.51E-01		1.25E-01	6.55E-02	2.24E+04	2.24E+06
RP-10-SUR	Bismuth-212	8.43E-01		1.16E-01	6.09E-02	2.24E+04	2.24E+06
RP-11-SUR	Bismuth-212	1.07E+00		1.51E-01	7.75E-02	2.24E+04	2.24E+06
RP-12-SUR	Bismuth-212	8.15E-01		1.11E-01	5.65E-02	2.24E+04	2.24E+06
RP-13-SUR	Bismuth-212	7.11E-01		1.06E-01	6.07E-02	2.24E+04	2.24E+06
RP-14-SUR	Bismuth-212	7.60E-01		1.13E-01	6.37E-02	2.24E+04	2.24E+06
RP-15-SUR	Bismuth-212	7.88E-01		1.00E-01	4.81E-02	2.24E+04	2.24E+06
RP-16-SUR	Bismuth-212	7.43E-01		1.03E-01	5.54E-02	2.24E+04	2.24E+06
RP-17-SUR	Bismuth-212	7.15E-01		9.95E-02	5.58E-02	2.24E+04	2.24E+06
RP-18-SUR	Bismuth-212	8.17E-01		1.11E-01	5.75E-02	2.24E+04	2.24E+06
RP-19-SUR	Bismuth-212	8.44E-01		1.13E-01	5.77E-02	2.24E+04	2.24E+06
RP-20-SUR	Bismuth-212	1.10E+00		1.55E-01	8.03E-02	2.24E+04	2.24E+06
RP-21-SUR	Bismuth-212	8.02E-01		1.08E-01	5.46E-02	2.24E+04	2.24E+06

Table 6.7 - Bismuth-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Bismuth-212	8.07E-01		1.15E-01	6.16E-02	2.24E+04	2.24E+06
RP-23-SUR	Bismuth-212	1.10E+00		1.53E-01	7.72E-02	2.24E+04	2.24E+06
RP-24-SUR	Bismuth-212	8.54E-01		1.21E-01	6.25E-02	2.24E+04	2.24E+06
RP-25-SUR	Bismuth-212	8.08E-01		1.12E-01	6.02E-02	2.24E+04	2.24E+06
RP-26-SUR	Bismuth-212	8.40E-01		1.11E-01	5.65E-02	2.24E+04	2.24E+06
RP-27-SUR	Bismuth-212	9.21E-01		1.24E-01	6.22E-02	2.24E+04	2.24E+06
RP-28-SUR	Bismuth-212	9.58E-01		1.28E-01	6.30E-02	2.24E+04	2.24E+06
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Bismuth-212	8.20E-01		1.23E-01	6.63E-02	2.24E+04	2.24E+06
RP-5-SUB	Bismuth-212	8.68E-01		1.15E-01	5.85E-02	2.24E+04	2.24E+06
RP-7-SUB	Bismuth-212	8.12E-01		9.85E-02	5.36E-02	2.24E+04	2.24E+06
RP-12-SUB	Bismuth-212	7.36E-01		1.12E-01	6.45E-02	2.24E+04	2.24E+06
RP-13-SUB	Bismuth-212	9.22E-01		1.25E-01	6.22E-02	2.24E+04	2.24E+06
RP-17-SUB	Bismuth-212	9.34E-01		1.31E-01	6.66E-02	2.24E+04	2.24E+06
RP-18-SUB	Bismuth-212	9.83E-01		1.32E-01	6.55E-02	2.24E+04	2.24E+06
RP-19-SUB	Bismuth-212	9.42E-01		1.23E-01	5.95E-02	2.24E+04	2.24E+06
RP-20-SUB	Bismuth-212	9.14E-01		1.23E-01	6.17E-02	2.24E+04	2.24E+06
RP-28-SUB	Bismuth-212	9.17E-01		1.31E-01	6.91E-02	2.24E+04	2.24E+06
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Bismuth-212	1.34E+00		1.70E-01	7.11E-02	2.24E+04	2.24E+06
BP-2-SUR	Bismuth-212	1.31E+00		1.63E-01	6.84E-02	2.24E+04	2.24E+06
BP-3-SUR	Bismuth-212	1.41E+00		1.86E-01	8.12E-02	2.24E+04	2.24E+06
BP-4-SUR	Bismuth-212	1.46E+00		1.85E-01	7.78E-02	2.24E+04	2.24E+06
BP-5-SUR	Bismuth-212	1.60E+00		1.95E-01	7.21E-02	2.24E+04	2.24E+06
BP-6-SUR	Bismuth-212	1.51E+00		1.74E-01	6.38E-02	2.24E+04	2.24E+06
BP-7-SUR	Bismuth-212	1.64E+00		2.06E-01	8.25E-02	2.24E+04	2.24E+06
BP-8-SUR	Bismuth-212	1.51E+00		1.96E-01	8.40E-02	2.24E+04	2.24E+06
BP-9-SUR	Bismuth-212	1.56E+00		1.96E-01	7.82E-02	2.24E+04	2.24E+06
BP-10-SUR	Bismuth-212	1.56E+00		1.93E-01	7.50E-02	2.24E+04	2.24E+06
BP-11-SUR	Bismuth-212	1.51E+00		1.84E-01	7.02E-02	2.24E+04	2.24E+06
BP-12-SUR	Bismuth-212	1.51E+00		1.92E-01	7.94E-02	2.24E+04	2.24E+06
BP-13-SUR	Bismuth-212	1.56E+00		1.83E-01	7.95E-02	2.24E+04	2.24E+06
BP-14-SUR	Bismuth-212	1.28E+00		1.62E-01	6.92E-02	2.24E+04	2.24E+06
BP-15-SUR	Bismuth-212	1.36E+00		1.78E-01	7.87E-02	2.24E+04	2.24E+06
BP-16-SUR	Bismuth-212	1.35E+00		1.69E-01	7.07E-02	2.24E+04	2.24E+06
BP-17-SUR	Bismuth-212	1.46E+00		1.81E-01	7.06E-02	2.24E+04	2.24E+06
BP-18-SUR	Bismuth-212	1.41E+00		1.81E-01	7.74E-02	2.24E+04	2.24E+06
BP-19-SUR	Bismuth-212	1.54E+00		1.86E-01	8.17E-02	2.24E+04	2.24E+06
BP-20-SUR	Bismuth-212	1.59E+00		2.00E-01	7.92E-02	2.24E+04	2.24E+06
BP-21-SUR	Bismuth-212	1.50E+00		1.97E-01	8.62E-02	2.24E+04	2.24E+06
BP-22-SUR	Bismuth-212	1.51E+00		1.80E-01	8.08E-02	2.24E+04	2.24E+06
BP-23-SUR	Bismuth-212	1.53E+00		1.88E-01	8.62E-02	2.24E+04	2.24E+06
BP-24-SUR	Bismuth-212	1.48E+00		1.77E-01	7.98E-02	2.24E+04	2.24E+06
BP-25-SUR	Bismuth-212	1.36E+00		1.63E-01	7.65E-02	2.24E+04	2.24E+06
BP-26-SUR	Bismuth-212	1.38E+00		1.76E-01	8.43E-02	2.24E+04	2.24E+06
BP-27-SUR	Bismuth-212	1.34E+00		1.64E-01	7.93E-02	2.24E+04	2.24E+06
BP-28-SUR	Bismuth-212	1.20E+00		1.58E-01	8.33E-02	2.24E+04	2.24E+06
BP-29-SUR	Bismuth-212	1.36E+00		1.69E-01	7.91E-02	2.24E+04	2.24E+06
BP-30-SUR	Bismuth-212	1.45E+00		1.84E-01	7.67E-02	2.24E+04	2.24E+06
BP-31-SUR	Bismuth-212	1.46E+00		1.80E-01	8.50E-02	2.24E+04	2.24E+06
BP-32-SUR	Bismuth-212	1.51E+00		1.77E-01	7.81E-02	2.24E+04	2.24E+06
BP-33-SUR	Bismuth-212	1.57E+00		2.06E-01	8.81E-02	2.24E+04	2.24E+06
BP-34-SUR	Bismuth-212	1.48E+00		1.88E-01	9.28E-02	2.24E+04	2.24E+06
BP-35-SUR	Bismuth-212	1.41E+00		1.73E-01	6.85E-02	2.24E+04	2.24E+06
BP-36-SUR	Bismuth-212	1.37E+00		1.71E-01	7.07E-02	2.24E+04	2.24E+06
BP-37-SUR	Bismuth-212	1.37E+00		1.83E-01	8.28E-02	2.24E+04	2.24E+06
BP-38-SUR	Bismuth-212	1.25E+00		1.68E-01	7.82E-02	2.24E+04	2.24E+06
BP-39-SUR	Bismuth-212	1.24E+00		1.58E-01	6.89E-02	2.24E+04	2.24E+06
BP-40-SUR	Bismuth-212	1.16E+00		1.51E-01	7.19E-02	2.24E+04	2.24E+06
BP-41-SUR	Bismuth-212	1.42E+00		1.72E-01	7.82E-02	2.24E+04	2.24E+06
BP-42-SUR	Bismuth-212	1.34E+00		1.79E-01	8.09E-02	2.24E+04	2.24E+06

Table 6.7 - Bismuth-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Bismuth-212	1.39E+00		1.70E-01	7.98E-02	2.24E+04	2.24E+06
BP-44-SUR	Bismuth-212	1.35E+00		1.82E-01	8.42E-02	2.24E+04	2.24E+06
BP-45-SUR	Bismuth-212	1.36E+00		1.62E-01	7.30E-02	2.24E+04	2.24E+06
BP-46-SUR	Bismuth-212	1.45E+00		1.81E-01	7.23E-02	2.24E+04	2.24E+06
BP-47-SUR	Bismuth-212	1.58E+00		1.83E-01	7.29E-02	2.24E+04	2.24E+06
BP-48-SUR	Bismuth-212	1.57E+00		2.03E-01	8.63E-02	2.24E+04	2.24E+06
BP-49-SUR	Bismuth-212	1.53E+00		1.82E-01	7.57E-02	2.24E+04	2.24E+06
BP-50-SUR	Bismuth-212	1.42E+00		1.83E-01	7.91E-02	2.24E+04	2.24E+06
BP-51-SUR	Bismuth-212	1.35E+00		1.54E-01	6.27E-02	2.24E+04	2.24E+06
BP-52-SUR	Bismuth-212	1.15E+00		1.46E-01	7.16E-02	2.24E+04	2.24E+06
BP-53-SUR	Bismuth-212	1.20E+00		1.61E-01	7.69E-02	2.24E+04	2.24E+06
BP-54-SUR	Bismuth-212	1.06E+00		1.25E-01	5.65E-02	2.24E+04	2.24E+06
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Bismuth-212	1.20E+00		1.46E-01	6.93E-02	2.24E+04	2.24E+06
BP-4-SUB	Bismuth-212	1.26E+00		1.72E-01	8.24E-02	2.24E+04	2.24E+06
BP-5-SUB	Bismuth-212	1.31E+00		1.76E-01	8.02E-02	2.24E+04	2.24E+06
BP-9-SUB	Bismuth-212	1.58E+00		1.77E-01	6.30E-02	2.24E+04	2.24E+06
BP-12-SUB	Bismuth-212	1.43E+00		1.77E-01	7.00E-02	2.24E+04	2.24E+06
BP-13-SUB	Bismuth-212	1.52E+00		1.80E-01	7.87E-02	2.24E+04	2.24E+06
BP-14-SUB	Bismuth-212	1.10E+00		1.53E-01	7.84E-02	2.24E+04	2.24E+06
BP-16-SUB	Bismuth-212	1.49E+00		1.64E-01	5.84E-02	2.24E+04	2.24E+06
BP-20-SUB	Bismuth-212	1.18E+00		1.63E-01	7.99E-02	2.24E+04	2.24E+06
BP-23-SUB	Bismuth-212	1.30E+00		1.54E-01	6.58E-02	2.24E+04	2.24E+06
BP-29-SUB	Bismuth-212	1.96E+00		8.16E-01	5.76E-01	2.24E+04	2.24E+06
BP-34-SUB	Bismuth-212	1.71E+00		2.12E-01	8.25E-02	2.24E+04	2.24E+06
BP-35-SUB	Bismuth-212	1.52E+00		1.67E-01	5.90E-02	2.24E+04	2.24E+06
BP-38-SUB	Bismuth-212	1.19E+00		1.58E-01	7.77E-02	2.24E+04	2.24E+06
BP-43-SUB	Bismuth-212	1.15E+00		1.53E-01	8.18E-02	2.24E+04	2.24E+06
BP-45-SUB	Bismuth-212	1.51E+00		1.91E-01	7.98E-02	2.24E+04	2.24E+06
BP-46-SUB	Bismuth-212	1.67E+00		1.98E-01	8.67E-02	2.24E+04	2.24E+06
BP-48-SUB	Bismuth-212	1.26E+00		1.65E-01	7.46E-02	2.24E+04	2.24E+06
BP-50-SUB	Bismuth-212	1.34E+00		1.67E-01	7.97E-02	2.24E+04	2.24E+06
BP-51-SUB	Bismuth-212	1.87E+00		2.28E-01	8.07E-02	2.24E+04	2.24E+06

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.8 - Bismuth-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Bismuth-214	1.15E+00		1.28E-01	1.56E-02	8.19E+03	8.19E+05
LR-2-SUR	Bismuth-214	1.14E+00		1.26E-01	1.48E-02	8.19E+03	8.19E+05
LR-3-SUR	Bismuth-214	1.19E+00		1.31E-01	1.65E-02	8.19E+03	8.19E+05
LR-4-SUR	Bismuth-214	1.07E+00		1.18E-01	1.51E-02	8.19E+03	8.19E+05
LR-5-SUR	Bismuth-214	1.21E+00		1.34E-01	1.57E-02	8.19E+03	8.19E+05
LR-6-SUR	Bismuth-214	1.20E+00		1.32E-01	1.61E-02	8.19E+03	8.19E+05
LR-7-SUR	Bismuth-214	1.05E+00		1.17E-01	1.59E-02	8.19E+03	8.19E+05
LR-8-SUR	Bismuth-214	1.08E+00		1.20E-01	1.45E-02	8.19E+03	8.19E+05
LR-9-SUR	Bismuth-214	1.14E+00		1.26E-01	1.73E-02	8.19E+03	8.19E+05
LR-10-SUR	Bismuth-214	1.02E+00		1.14E-01	1.55E-02	8.19E+03	8.19E+05
LR-11-SUR	Bismuth-214	1.06E+00		1.19E-01	1.68E-02	8.19E+03	8.19E+05
LR-12-SUR	Bismuth-214	1.06E+00		1.18E-01	1.72E-02	8.19E+03	8.19E+05
LR-13-SUR	Bismuth-214	1.05E+00		1.16E-01	1.44E-02	8.19E+03	8.19E+05
LR-14-SUR	Bismuth-214	9.61E-01		1.07E-01	1.60E-02	8.19E+03	8.19E+05
LR-15-SUR	Bismuth-214	1.07E+00		1.19E-01	1.77E-02	8.19E+03	8.19E+05
LR-16-SUR	Bismuth-214	1.01E+00		1.12E-01	1.50E-02	8.19E+03	8.19E+05
LR-17-SUR	Bismuth-214	9.48E-01		1.05E-01	1.48E-02	8.19E+03	8.19E+05
LR-18-SUR	Bismuth-214	1.11E+00		1.23E-01	1.43E-02	8.19E+03	8.19E+05
LR-19-SUR	Bismuth-214	1.23E+00		1.36E-01	1.63E-02	8.19E+03	8.19E+05
LR-20-SUR	Bismuth-214	1.17E+00		1.30E-01	1.74E-02	8.19E+03	8.19E+05
LR-21-SUR	Bismuth-214	1.13E+00		1.26E-01	1.65E-02	8.19E+03	8.19E+05
LR-22-SUR	Bismuth-214	1.11E+00		1.23E-01	1.66E-02	8.19E+03	8.19E+05
LR-23-SUR	Bismuth-214	1.11E+00		1.23E-01	1.68E-02	8.19E+03	8.19E+05
LR-24-SUR	Bismuth-214	1.10E+00		1.22E-01	1.57E-02	8.19E+03	8.19E+05
LR-25-SUR	Bismuth-214	1.19E+00		1.32E-01	1.78E-02	8.19E+03	8.19E+05
LR-26-SUR	Bismuth-214	1.17E+00		1.30E-01	1.76E-02	8.19E+03	8.19E+05
LR-27-SUR	Bismuth-214	1.09E+00		1.21E-01	1.46E-02	8.19E+03	8.19E+05
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Bismuth-214	1.16E+00		1.28E-01	1.64E-02	8.19E+03	8.19E+05
LR-4-SUB	Bismuth-214	1.04E+00		1.15E-01	1.37E-02	8.19E+03	8.19E+05
LR-9-SUB	Bismuth-214	9.45E-01		1.05E-01	1.49E-02	8.19E+03	8.19E+05
LR-13-SUB	Bismuth-214	1.10E+00		1.21E-01	1.59E-02	8.19E+03	8.19E+05
LR-15-SUB	Bismuth-214	1.13E+00		1.26E-01	1.68E-02	8.19E+03	8.19E+05
LR-18-SUB	Bismuth-214	1.03E+00		1.16E-01	1.71E-02	8.19E+03	8.19E+05
LR-19-SUB	Bismuth-214	1.13E+00		1.26E-01	1.60E-02	8.19E+03	8.19E+05
LR-23-SUB	Bismuth-214	1.20E+00		1.33E-01	1.44E-02	8.19E+03	8.19E+05
LR-24-SUB	Bismuth-214	1.06E+00		1.18E-01	1.57E-02	8.19E+03	8.19E+05
LR-26-SUB	Bismuth-214	9.63E-01		1.08E-01	1.58E-02	8.19E+03	8.19E+05
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Bismuth-214	6.77E-01		7.59E-02	1.36E-02	8.19E+03	8.19E+05
RP-2-SUR	Bismuth-214	7.13E-01		8.01E-02	1.42E-02	8.19E+03	8.19E+05
RP-3-SUR	Bismuth-214	6.41E-01		7.25E-02	1.29E-02	8.19E+03	8.19E+05
RP-4-SUR	Bismuth-214	6.89E-01		7.68E-02	1.25E-02	8.19E+03	8.19E+05
RP-5-SUR	Bismuth-214	7.39E-01		8.25E-02	1.35E-02	8.19E+03	8.19E+05
RP-6-SUR	Bismuth-214	7.50E-01		8.32E-02	1.23E-02	8.19E+03	8.19E+05
RP-7-SUR	Bismuth-214	7.09E-01		7.97E-02	1.29E-02	8.19E+03	8.19E+05
RP-8-SUR	Bismuth-214	7.51E-01		8.45E-02	1.34E-02	8.19E+03	8.19E+05
RP-9-SUR	Bismuth-214	7.13E-01		7.34E-02	1.05E-02	8.19E+03	8.19E+05
RP-10-SUR	Bismuth-214	8.50E-01		9.43E-02	1.27E-02	8.19E+03	8.19E+05
RP-11-SUR	Bismuth-214	7.40E-01		8.33E-02	1.35E-02	8.19E+03	8.19E+05
RP-12-SUR	Bismuth-214	6.77E-01		7.58E-02	1.31E-02	8.19E+03	8.19E+05
RP-13-SUR	Bismuth-214	6.85E-01		7.64E-02	1.20E-02	8.19E+03	8.19E+05
RP-14-SUR	Bismuth-214	7.42E-01		8.27E-02	1.31E-02	8.19E+03	8.19E+05
RP-15-SUR	Bismuth-214	7.64E-01		8.48E-02	1.21E-02	8.19E+03	8.19E+05
RP-16-SUR	Bismuth-214	7.29E-01		8.11E-02	1.23E-02	8.19E+03	8.19E+05
RP-17-SUR	Bismuth-214	7.59E-01		8.43E-02	1.27E-02	8.19E+03	8.19E+05
RP-18-SUR	Bismuth-214	8.21E-01		9.11E-02	1.27E-02	8.19E+03	8.19E+05
RP-19-SUR	Bismuth-214	8.21E-01		9.09E-02	1.21E-02	8.19E+03	8.19E+05
RP-20-SUR	Bismuth-214	7.41E-01		8.33E-02	1.36E-02	8.19E+03	8.19E+05
RP-21-SUR	Bismuth-214	6.89E-01		7.70E-02	1.26E-02	8.19E+03	8.19E+05

Table 6.8 - Bismuth-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Bismuth-214	6.86E-01		7.65E-02	1.24E-02	8.19E+03	8.19E+05
RP-23-SUR	Bismuth-214	7.03E-01		7.91E-02	1.30E-02	8.19E+03	8.19E+05
RP-24-SUR	Bismuth-214	7.34E-01		8.14E-02	1.17E-02	8.19E+03	8.19E+05
RP-25-SUR	Bismuth-214	7.75E-01		8.62E-02	1.34E-02	8.19E+03	8.19E+05
RP-26-SUR	Bismuth-214	7.78E-01		8.72E-02	1.50E-02	8.19E+03	8.19E+05
RP-27-SUR	Bismuth-214	8.06E-01		8.99E-02	1.44E-02	8.19E+03	8.19E+05
RP-28-SUR	Bismuth-214	7.99E-01		8.90E-02	1.42E-02	8.19E+03	8.19E+05
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Bismuth-214	6.47E-01		7.20E-02	1.18E-02	8.19E+03	8.19E+05
RP-5-SUB	Bismuth-214	7.58E-01		8.45E-02	1.35E-02	8.19E+03	8.19E+05
RP-7-SUB	Bismuth-214	7.74E-01		8.67E-02	1.48E-02	8.19E+03	8.19E+05
RP-12-SUB	Bismuth-214	6.58E-01		7.39E-02	1.31E-02	8.19E+03	8.19E+05
RP-13-SUB	Bismuth-214	7.83E-01		8.72E-02	1.35E-02	8.19E+03	8.19E+05
RP-17-SUB	Bismuth-214	7.95E-01		8.88E-02	1.48E-02	8.19E+03	8.19E+05
RP-18-SUB	Bismuth-214	8.50E-01		9.47E-02	1.45E-02	8.19E+03	8.19E+05
RP-19-SUB	Bismuth-214	8.32E-01		9.25E-02	1.36E-02	8.19E+03	8.19E+05
RP-20-SUB	Bismuth-214	8.04E-01		8.98E-02	1.45E-02	8.19E+03	8.19E+05
RP-28-SUB	Bismuth-214	7.86E-01		8.73E-02	1.30E-02	8.19E+03	8.19E+05
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Bismuth-214	1.39E+00		1.53E-01	1.51E-02	8.19E+03	8.19E+05
BP-2-SUR	Bismuth-214	1.41E+00		1.56E-01	1.80E-02	8.19E+03	8.19E+05
BP-3-SUR	Bismuth-214	1.36E+00		1.50E-01	1.73E-02	8.19E+03	8.19E+05
BP-4-SUR	Bismuth-214	1.53E+00		1.68E-01	1.60E-02	8.19E+03	8.19E+05
BP-5-SUR	Bismuth-214	1.53E+00		1.68E-01	1.80E-02	8.19E+03	8.19E+05
BP-6-SUR	Bismuth-214	1.52E+00		1.67E-01	1.71E-02	8.19E+03	8.19E+05
BP-7-SUR	Bismuth-214	1.57E+00		1.73E-01	1.65E-02	8.19E+03	8.19E+05
BP-8-SUR	Bismuth-214	1.55E+00		1.71E-01	1.76E-02	8.19E+03	8.19E+05
BP-9-SUR	Bismuth-214	1.55E+00		1.70E-01	1.71E-02	8.19E+03	8.19E+05
BP-10-SUR	Bismuth-214	1.53E+00		1.68E-01	1.73E-02	8.19E+03	8.19E+05
BP-11-SUR	Bismuth-214	1.51E+00		1.66E-01	1.59E-02	8.19E+03	8.19E+05
BP-12-SUR	Bismuth-214	1.48E+00		1.62E-01	1.68E-02	8.19E+03	8.19E+05
BP-13-SUR	Bismuth-214	1.54E+00		1.58E-01	1.78E-02	8.19E+03	8.19E+05
BP-14-SUR	Bismuth-214	1.28E+00		1.41E-01	1.62E-02	8.19E+03	8.19E+05
BP-15-SUR	Bismuth-214	1.35E+00		1.49E-01	1.62E-02	8.19E+03	8.19E+05
BP-16-SUR	Bismuth-214	1.35E+00		1.48E-01	1.64E-02	8.19E+03	8.19E+05
BP-17-SUR	Bismuth-214	1.40E+00		1.54E-01	1.70E-02	8.19E+03	8.19E+05
BP-18-SUR	Bismuth-214	1.36E+00		1.50E-01	1.65E-02	8.19E+03	8.19E+05
BP-19-SUR	Bismuth-214	1.42E+00		1.46E-01	1.79E-02	8.19E+03	8.19E+05
BP-20-SUR	Bismuth-214	1.52E+00		1.67E-01	1.84E-02	8.19E+03	8.19E+05
BP-21-SUR	Bismuth-214	1.51E+00		1.66E-01	1.73E-02	8.19E+03	8.19E+05
BP-22-SUR	Bismuth-214	1.51E+00		1.55E-01	1.77E-02	8.19E+03	8.19E+05
BP-23-SUR	Bismuth-214	1.47E+00		1.51E-01	1.89E-02	8.19E+03	8.19E+05
BP-24-SUR	Bismuth-214	1.49E+00		1.53E-01	1.83E-02	8.19E+03	8.19E+05
BP-25-SUR	Bismuth-214	1.38E+00		1.42E-01	1.75E-02	8.19E+03	8.19E+05
BP-26-SUR	Bismuth-214	1.32E+00		1.36E-01	1.73E-02	8.19E+03	8.19E+05
BP-27-SUR	Bismuth-214	1.36E+00		1.40E-01	1.83E-02	8.19E+03	8.19E+05
BP-28-SUR	Bismuth-214	1.30E+00		1.34E-01	1.75E-02	8.19E+03	8.19E+05
BP-29-SUR	Bismuth-214	1.26E+00		1.30E-01	1.64E-02	8.19E+03	8.19E+05
BP-30-SUR	Bismuth-214	1.37E+00		1.52E-01	1.52E-02	8.19E+03	8.19E+05
BP-31-SUR	Bismuth-214	1.39E+00		1.44E-01	1.85E-02	8.19E+03	8.19E+05
BP-32-SUR	Bismuth-214	1.42E+00		1.46E-01	1.76E-02	8.19E+03	8.19E+05
BP-33-SUR	Bismuth-214	1.41E+00		1.56E-01	1.55E-02	8.19E+03	8.19E+05
BP-34-SUR	Bismuth-214	1.44E+00		1.47E-01	1.67E-02	8.19E+03	8.19E+05
BP-35-SUR	Bismuth-214	1.25E+00		1.39E-01	1.59E-02	8.19E+03	8.19E+05
BP-36-SUR	Bismuth-214	1.24E+00		1.38E-01	1.55E-02	8.19E+03	8.19E+05
BP-37-SUR	Bismuth-214	1.15E+00		1.28E-01	1.58E-02	8.19E+03	8.19E+05
BP-38-SUR	Bismuth-214	1.03E+00		1.15E-01	1.46E-02	8.19E+03	8.19E+05
BP-39-SUR	Bismuth-214	1.02E+00		1.14E-01	1.50E-02	8.19E+03	8.19E+05
BP-40-SUR	Bismuth-214	1.13E+00		1.27E-01	1.67E-02	8.19E+03	8.19E+05
BP-41-SUR	Bismuth-214	1.19E+00		1.23E-01	1.67E-02	8.19E+03	8.19E+05
BP-42-SUR	Bismuth-214	1.19E+00		1.33E-01	1.61E-02	8.19E+03	8.19E+05

Table 6.8 - Bismuth-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Bismuth-214	1.19E+00		1.23E-01	1.63E-02	8.19E+03	8.19E+05
BP-44-SUR	Bismuth-214	1.20E+00		1.33E-01	1.47E-02	8.19E+03	8.19E+05
BP-45-SUR	Bismuth-214	1.16E+00		1.19E-01	1.61E-02	8.19E+03	8.19E+05
BP-46-SUR	Bismuth-214	1.12E+00		1.25E-01	1.68E-02	8.19E+03	8.19E+05
BP-47-SUR	Bismuth-214	1.33E+00		1.36E-01	1.43E-02	8.19E+03	8.19E+05
BP-48-SUR	Bismuth-214	1.30E+00		1.44E-01	1.71E-02	8.19E+03	8.19E+05
BP-49-SUR	Bismuth-214	1.23E+00		1.26E-01	1.56E-02	8.19E+03	8.19E+05
BP-50-SUR	Bismuth-214	1.20E+00		1.33E-01	1.70E-02	8.19E+03	8.19E+05
BP-51-SUR	Bismuth-214	1.20E+00		1.22E-01	1.28E-02	8.19E+03	8.19E+05
BP-52-SUR	Bismuth-214	1.04E+00		1.07E-01	1.37E-02	8.19E+03	8.19E+05
BP-53-SUR	Bismuth-214	9.66E-01		1.08E-01	1.60E-02	8.19E+03	8.19E+05
BP-54-SUR	Bismuth-214	9.12E-01		9.36E-02	1.13E-02	8.19E+03	8.19E+05
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Bismuth-214	9.57E-01		9.88E-02	1.42E-02	8.19E+03	8.19E+05
BP-4-SUB	Bismuth-214	9.92E-01		1.11E-01	1.50E-02	8.19E+03	8.19E+05
BP-5-SUB	Bismuth-214	1.00E+00		1.12E-01	1.54E-02	8.19E+03	8.19E+05
BP-9-SUB	Bismuth-214	1.05E+00		1.08E-01	1.41E-02	8.19E+03	8.19E+05
BP-12-SUB	Bismuth-214	1.16E+00		1.29E-01	1.49E-02	8.19E+03	8.19E+05
BP-13-SUB	Bismuth-214	1.21E+00		1.24E-01	1.63E-02	8.19E+03	8.19E+05
BP-14-SUB	Bismuth-214	1.01E+00		1.13E-01	1.62E-02	8.19E+03	8.19E+05
BP-16-SUB	Bismuth-214	1.14E+00		1.17E-01	1.37E-02	8.19E+03	8.19E+05
BP-20-SUB	Bismuth-214	9.00E-01		1.01E-01	1.54E-02	8.19E+03	8.19E+05
BP-23-SUB	Bismuth-214	1.00E+00		1.03E-01	1.28E-02	8.19E+03	8.19E+05
BP-29-SUB	Bismuth-214	9.71E-01		2.78E-01	1.58E-01	8.19E+03	8.19E+05
BP-34-SUB	Bismuth-214	1.21E+00		1.34E-01	1.58E-02	8.19E+03	8.19E+05
BP-35-SUB	Bismuth-214	1.12E+00		1.14E-01	1.31E-02	8.19E+03	8.19E+05
BP-38-SUB	Bismuth-214	9.44E-01		1.07E-01	1.80E-02	8.19E+03	8.19E+05
BP-43-SUB	Bismuth-214	1.06E+00		1.10E-01	1.75E-02	8.19E+03	8.19E+05
BP-45-SUB	Bismuth-214	1.08E+00		1.20E-01	1.60E-02	8.19E+03	8.19E+05
BP-46-SUB	Bismuth-214	1.15E+00		1.20E-01	1.97E-02	8.19E+03	8.19E+05
BP-48-SUB	Bismuth-214	9.14E-01		1.02E-01	1.49E-02	8.19E+03	8.19E+05
BP-50-SUB	Bismuth-214	9.87E-01		1.02E-01	1.60E-02	8.19E+03	8.19E+05
BP-51-SUB	Bismuth-214	1.30E+00		1.45E-01	1.58E-02	8.19E+03	8.19E+05

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.9 - Cadmium-113m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cadmium-113m	-8.34E+02	U	3.25E+03	3.41E+03	5.26E-03	5.26E-01
LR-2-SUR	Cadmium-113m	-1.20E+03	U	2.80E+03	3.38E+03	5.26E-03	5.26E-01
LR-3-SUR	Cadmium-113m	2.75E+03		2.47E+03	2.86E+03	5.26E-03	5.26E-01
LR-4-SUR	Cadmium-113m	3.42E+01	U	1.78E+03	2.95E+03	5.26E-03	5.26E-01
LR-5-SUR	Cadmium-113m	-5.46E+02	U	4.21E+03	3.43E+03	5.26E-03	5.26E-01
LR-6-SUR	Cadmium-113m	6.71E+02	U	2.11E+03	3.48E+03	5.26E-03	5.26E-01
LR-7-SUR	Cadmium-113m	-1.63E+01	U	1.74E+03	2.43E+03	5.26E-03	5.26E-01
LR-8-SUR	Cadmium-113m	-2.05E+02	U	2.99E+04	2.67E+03	5.26E-03	5.26E-01
LR-9-SUR	Cadmium-113m	6.67E+01	U	1.95E+03	3.23E+03	5.26E-03	5.26E-01
LR-10-SUR	Cadmium-113m	1.05E+03	U	2.15E+03	3.55E+03	5.26E-03	5.26E-01
LR-11-SUR	Cadmium-113m	-4.81E+02	U	2.15E+03	3.55E+03	5.26E-03	5.26E-01
LR-12-SUR	Cadmium-113m	3.36E+02	U	2.01E+03	3.33E+03	5.26E-03	5.26E-01
LR-13-SUR	Cadmium-113m	3.83E+02	U	1.94E+03	3.21E+03	5.26E-03	5.26E-01
LR-14-SUR	Cadmium-113m	5.68E+02	U	1.89E+03	3.12E+03	5.26E-03	5.26E-01
LR-15-SUR	Cadmium-113m	1.94E+01	U	2.13E+03	3.53E+03	5.26E-03	5.26E-01
LR-16-SUR	Cadmium-113m	-1.66E+02	U	6.40E+03	1.06E+04	5.26E-03	5.26E-01
LR-17-SUR	Cadmium-113m	1.73E+03	U	2.09E+03	2.48E+03	5.26E-03	5.26E-01
LR-18-SUR	Cadmium-113m	4.69E+02	U	2.00E+03	3.31E+03	5.26E-03	5.26E-01
LR-19-SUR	Cadmium-113m	-1.37E+02	U	1.69E+06	3.55E+03	5.26E-03	5.26E-01
LR-20-SUR	Cadmium-113m	1.42E+03	U	2.14E+03	3.53E+03	5.26E-03	5.26E-01
LR-21-SUR	Cadmium-113m	-6.64E+02	U	3.23E+03	3.50E+03	5.26E-03	5.26E-01
LR-22-SUR	Cadmium-113m	1.04E+03	U	2.07E+03	3.41E+03	5.26E-03	5.26E-01
LR-23-SUR	Cadmium-113m	-2.36E+02	U	7.03E+03	3.39E+03	5.26E-03	5.26E-01
LR-24-SUR	Cadmium-113m	-1.52E+02	U	2.27E+04	3.33E+03	5.26E-03	5.26E-01
LR-25-SUR	Cadmium-113m	1.26E+03	U	2.11E+03	3.48E+03	5.26E-03	5.26E-01
LR-26-SUR	Cadmium-113m	-8.37E+02	U	2.90E+03	3.45E+03	5.26E-03	5.26E-01
LR-27-SUR	Cadmium-113m	-3.56E+02	U	3.16E+04	2.75E+03	5.26E-03	5.26E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cadmium-113m	3.78E+02	U	2.08E+03	3.44E+03	5.26E-03	5.26E-01
LR-4-SUB	Cadmium-113m	-2.56E+02	U	5.27E+03	3.22E+03	5.26E-03	5.26E-01
LR-9-SUB	Cadmium-113m	5.93E+02	U	2.01E+03	3.32E+03	5.26E-03	5.26E-01
LR-13-SUB	Cadmium-113m	-1.19E+03	U	3.61E+03	3.41E+03	5.26E-03	5.26E-01
LR-15-SUB	Cadmium-113m	4.62E+01	U	2.38E+03	3.93E+03	5.26E-03	5.26E-01
LR-18-SUB	Cadmium-113m	-6.11E+01	U	2.19E+03	3.63E+03	5.26E-03	5.26E-01
LR-19-SUB	Cadmium-113m	-1.35E+03	U	2.12E+03	3.49E+03	5.26E-03	5.26E-01
LR-23-SUB	Cadmium-113m	-7.17E+01	U	7.98E+03	3.68E+03	5.26E-03	5.26E-01
LR-24-SUB	Cadmium-113m	3.35E+03		2.53E+03	2.79E+03	5.26E-03	5.26E-01
LR-26-SUB	Cadmium-113m	1.70E+02	U	2.10E+03	3.47E+03	5.26E-03	5.26E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cadmium-113m	1.83E+02	U	1.70E+03	2.82E+03	5.26E-03	5.26E-01
RP-2-SUR	Cadmium-113m	-6.93E+02	U	2.23E+03	2.91E+03	5.26E-03	5.26E-01
RP-3-SUR	Cadmium-113m	-4.46E+02	U	2.26E+03	2.91E+03	5.26E-03	5.26E-01
RP-4-SUR	Cadmium-113m	1.09E+03	U	1.70E+03	2.81E+03	5.26E-03	5.26E-01
RP-5-SUR	Cadmium-113m	-4.37E+02	U	2.52E+03	2.89E+03	5.26E-03	5.26E-01
RP-6-SUR	Cadmium-113m	1.16E+02	U	1.42E+03	2.36E+03	5.26E-03	5.26E-01
RP-7-SUR	Cadmium-113m	-9.82E+02	U	1.83E+03	2.67E+03	5.26E-03	5.26E-01
RP-8-SUR	Cadmium-113m	-5.07E+02	U	1.96E+03	2.54E+03	5.26E-03	5.26E-01
RP-9-SUR	Cadmium-113m	4.75E+02	U	1.46E+03	2.42E+03	5.26E-03	5.26E-01
RP-10-SUR	Cadmium-113m	4.13E+02	U	1.75E+03	2.90E+03	5.26E-03	5.26E-01
RP-11-SUR	Cadmium-113m	3.92E+02	U	1.81E+03	3.00E+03	5.26E-03	5.26E-01
RP-12-SUR	Cadmium-113m	-2.06E+01	U	2.73E+03	2.54E+03	5.26E-03	5.26E-01
RP-13-SUR	Cadmium-113m	4.97E+02	U	1.62E+03	2.67E+03	5.26E-03	5.26E-01
RP-14-SUR	Cadmium-113m	-9.68E+01	U	1.30E+04	2.76E+03	5.26E-03	5.26E-01
RP-15-SUR	Cadmium-113m	-4.70E+02	U	2.01E+03	2.40E+03	5.26E-03	5.26E-01
RP-16-SUR	Cadmium-113m	7.94E+01	U	1.67E+03	2.77E+03	5.26E-03	5.26E-01
RP-17-SUR	Cadmium-113m	-8.22E+02	U	1.96E+03	2.69E+03	5.26E-03	5.26E-01
RP-18-SUR	Cadmium-113m	2.55E+02	U	1.75E+03	2.89E+03	5.26E-03	5.26E-01
RP-19-SUR	Cadmium-113m	-1.15E+02	U	2.11E+03	2.93E+03	5.26E-03	5.26E-01
RP-20-SUR	Cadmium-113m	2.89E+01	U	1.89E+03	3.14E+03	5.26E-03	5.26E-01
RP-21-SUR	Cadmium-113m	-1.85E+02	U	9.55E+03	2.78E+03	5.26E-03	5.26E-01

Table 6.9 - Cadmium-113m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Cadmium-113m	-2.32E+02	U	6.09E+03	2.82E+03	5.26E-03	5.26E-01
RP-23-SUR	Cadmium-113m	-7.31E+02	U	1.89E+03	3.12E+03	5.26E-03	5.26E-01
RP-24-SUR	Cadmium-113m	-2.89E+02	U	2.93E+03	2.67E+03	5.26E-03	5.26E-01
RP-25-SUR	Cadmium-113m	-4.45E+02	U	2.73E+03	2.97E+03	5.26E-03	5.26E-01
RP-26-SUR	Cadmium-113m	-7.61E+02	U	2.24E+03	2.93E+03	5.26E-03	5.26E-01
RP-27-SUR	Cadmium-113m	9.50E+02	U	1.80E+03	2.97E+03	5.26E-03	5.26E-01
RP-28-SUR	Cadmium-113m	-5.50E+02	U	2.21E+03	2.61E+03	5.26E-03	5.26E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cadmium-113m	5.71E+02	U	1.66E+03	2.75E+03	5.26E-03	5.26E-01
RP-5-SUB	Cadmium-113m	-1.27E+01	U	1.79E+03	2.97E+03	5.26E-03	5.26E-01
RP-7-SUB	Cadmium-113m	-7.77E+01	U	1.68E+03	2.78E+03	5.26E-03	5.26E-01
RP-12-SUB	Cadmium-113m	-2.51E+02	U	1.53E+03	2.53E+03	5.26E-03	5.26E-01
RP-13-SUB	Cadmium-113m	3.37E+02	U	1.76E+03	2.92E+03	5.26E-03	5.26E-01
RP-17-SUB	Cadmium-113m	2.27E+03		1.82E+03	2.24E+03	5.26E-03	5.26E-01
RP-18-SUB	Cadmium-113m	1.21E+03	U	1.85E+03	3.04E+03	5.26E-03	5.26E-01
RP-19-SUB	Cadmium-113m	-6.06E+02	U	2.41E+03	2.98E+03	5.26E-03	5.26E-01
RP-20-SUB	Cadmium-113m	-1.38E+02	U	1.74E+03	2.88E+03	5.26E-03	5.26E-01
RP-28-SUB	Cadmium-113m	-5.70E+01	U	1.75E+03	2.90E+03	5.26E-03	5.26E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cadmium-113m	8.00E+02	U	1.81E+03	2.98E+03	5.26E-03	5.26E-01
BP-2-SUR	Cadmium-113m	5.67E+02	U	2.20E+03	3.63E+03	5.26E-03	5.26E-01
BP-3-SUR	Cadmium-113m	1.03E+03	U	2.18E+03	3.59E+03	5.26E-03	5.26E-01
BP-4-SUR	Cadmium-113m	5.91E+02	U	2.27E+03	3.75E+03	5.26E-03	5.26E-01
BP-5-SUR	Cadmium-113m	5.69E+02	U	2.19E+03	3.62E+03	5.26E-03	5.26E-01
BP-6-SUR	Cadmium-113m	6.31E+02	U	2.19E+03	3.63E+03	5.26E-03	5.26E-01
BP-7-SUR	Cadmium-113m	2.87E+02	U	1.84E+03	3.04E+03	5.26E-03	5.26E-01
BP-8-SUR	Cadmium-113m	2.13E+02	U	2.26E+03	3.74E+03	5.26E-03	5.26E-01
BP-9-SUR	Cadmium-113m	7.88E+01	U	2.29E+03	3.79E+03	5.26E-03	5.26E-01
BP-10-SUR	Cadmium-113m	1.69E+02	U	2.28E+03	3.78E+03	5.26E-03	5.26E-01
BP-11-SUR	Cadmium-113m	-6.32E+02	U	2.25E+03	3.72E+03	5.26E-03	5.26E-01
BP-12-SUR	Cadmium-113m	1.19E+03	U	2.23E+03	3.68E+03	5.26E-03	5.26E-01
BP-13-SUR	Cadmium-113m	-6.91E+02	U	4.32E+03	3.97E+03	5.26E-03	5.26E-01
BP-14-SUR	Cadmium-113m	9.45E+02	U	2.12E+03	3.50E+03	5.26E-03	5.26E-01
BP-15-SUR	Cadmium-113m	7.64E+02	U	2.16E+03	3.57E+03	5.26E-03	5.26E-01
BP-16-SUR	Cadmium-113m	-1.21E+02	U	2.20E+03	3.65E+03	5.26E-03	5.26E-01
BP-17-SUR	Cadmium-113m	4.77E+02	U	1.63E+03	2.69E+03	5.26E-03	5.26E-01
BP-18-SUR	Cadmium-113m	1.10E+03	U	2.06E+03	3.39E+03	5.26E-03	5.26E-01
BP-19-SUR	Cadmium-113m	6.05E+02	U	2.04E+03	3.37E+03	5.26E-03	5.26E-01
BP-20-SUR	Cadmium-113m	-3.07E+02	U	2.28E+03	3.78E+03	5.26E-03	5.26E-01
BP-21-SUR	Cadmium-113m	9.59E+01	U	2.23E+03	3.69E+03	5.26E-03	5.26E-01
BP-22-SUR	Cadmium-113m	6.01E+01	U	2.24E+03	3.72E+03	5.26E-03	5.26E-01
BP-23-SUR	Cadmium-113m	5.24E+01	U	2.38E+03	3.94E+03	5.26E-03	5.26E-01
BP-24-SUR	Cadmium-113m	4.96E+02	U	2.36E+03	3.90E+03	5.26E-03	5.26E-01
BP-25-SUR	Cadmium-113m	1.10E+03	U	2.28E+03	3.76E+03	5.26E-03	5.26E-01
BP-26-SUR	Cadmium-113m	1.42E+03	U	2.25E+03	3.71E+03	5.26E-03	5.26E-01
BP-27-SUR	Cadmium-113m	5.59E+02	U	2.24E+03	3.70E+03	5.26E-03	5.26E-01
BP-28-SUR	Cadmium-113m	-5.98E+02	U	2.21E+03	3.66E+03	5.26E-03	5.26E-01
BP-29-SUR	Cadmium-113m	3.30E+02	U	1.81E+03	3.00E+03	5.26E-03	5.26E-01
BP-30-SUR	Cadmium-113m	2.08E+01	U	1.76E+03	2.92E+03	5.26E-03	5.26E-01
BP-31-SUR	Cadmium-113m	7.17E+02	U	2.15E+03	3.55E+03	5.26E-03	5.26E-01
BP-32-SUR	Cadmium-113m	-2.88E+02	U	2.29E+03	3.80E+03	5.26E-03	5.26E-01
BP-33-SUR	Cadmium-113m	3.14E+02	U	2.32E+03	3.83E+03	5.26E-03	5.26E-01
BP-34-SUR	Cadmium-113m	-2.72E+02	U	2.23E+03	3.69E+03	5.26E-03	5.26E-01
BP-35-SUR	Cadmium-113m	2.07E+01	U	1.99E+03	3.30E+03	5.26E-03	5.26E-01
BP-36-SUR	Cadmium-113m	-3.29E+02	U	2.22E+03	3.67E+03	5.26E-03	5.26E-01
BP-37-SUR	Cadmium-113m	4.83E+02	U	2.13E+03	3.52E+03	5.26E-03	5.26E-01
BP-38-SUR	Cadmium-113m	2.40E+01	U	2.15E+03	3.56E+03	5.26E-03	5.26E-01
BP-39-SUR	Cadmium-113m	-1.22E+03	U	1.98E+03	3.25E+03	5.26E-03	5.26E-01
BP-40-SUR	Cadmium-113m	-8.53E+02	U	2.43E+03	3.55E+03	5.26E-03	5.26E-01
BP-41-SUR	Cadmium-113m	2.94E+02	U	2.19E+03	3.63E+03	5.26E-03	5.26E-01
BP-42-SUR	Cadmium-113m	8.38E+02	U	2.16E+03	3.56E+03	5.26E-03	5.26E-01

Table 6.9 - Cadmium-113m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Cadmium-113m	1.49E+01	U	2.00E+03	3.32E+03	5.26E-03	5.26E-01
BP-44-SUR	Cadmium-113m	-1.11E+02	U	4.95E+03	3.03E+03	5.26E-03	5.26E-01
BP-45-SUR	Cadmium-113m	5.59E+02	U	2.15E+03	3.55E+03	5.26E-03	5.26E-01
BP-46-SUR	Cadmium-113m	-1.33E+03	U	2.76E+03	3.58E+03	5.26E-03	5.26E-01
BP-47-SUR	Cadmium-113m	3.46E+02	U	1.93E+03	3.18E+03	5.26E-03	5.26E-01
BP-48-SUR	Cadmium-113m	-8.74E+02	U	3.46E+03	3.75E+03	5.26E-03	5.26E-01
BP-49-SUR	Cadmium-113m	-1.83E+02	U	3.95E+03	2.73E+03	5.26E-03	5.26E-01
BP-50-SUR	Cadmium-113m	6.97E+01	U	2.17E+03	3.59E+03	5.26E-03	5.26E-01
BP-51-SUR	Cadmium-113m	3.51E+02	U	1.82E+03	3.01E+03	5.26E-03	5.26E-01
BP-52-SUR	Cadmium-113m	3.78E+01	U	1.76E+03	2.91E+03	5.26E-03	5.26E-01
BP-53-SUR	Cadmium-113m	-9.96E+02	U	2.98E+03	3.40E+03	5.26E-03	5.26E-01
BP-54-SUR	Cadmium-113m	9.96E+02	U	1.62E+03	2.66E+03	5.26E-03	5.26E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cadmium-113m	6.51E+01	U	1.59E+03	2.64E+03	5.26E-03	5.26E-01
BP-4-SUB	Cadmium-113m	2.48E-01	U	1.89E+03	3.14E+03	5.26E-03	5.26E-01
BP-5-SUB	Cadmium-113m	-6.51E+02	U	3.47E+03	3.40E+03	5.26E-03	5.26E-01
BP-9-SUB	Cadmium-113m	4.65E+02	U	1.77E+03	2.93E+03	5.26E-03	5.26E-01
BP-12-SUB	Cadmium-113m	-6.23E+02	U	3.21E+03	3.35E+03	5.26E-03	5.26E-01
BP-13-SUB	Cadmium-113m	-3.48E+02	U	2.78E+03	3.16E+03	5.26E-03	5.26E-01
BP-14-SUB	Cadmium-113m	-6.60E+02	U	2.04E+03	3.38E+03	5.26E-03	5.26E-01
BP-16-SUB	Cadmium-113m	2.57E+03		2.02E+03	2.38E+03	5.26E-03	5.26E-01
BP-20-SUB	Cadmium-113m	6.16E+02	U	2.04E+03	3.37E+03	5.26E-03	5.26E-01
BP-23-SUB	Cadmium-113m	3.48E+02	U	1.71E+03	2.82E+03	5.26E-03	5.26E-01
BP-29-SUB	Cadmium-113m	-8.34E+03	U	3.11E+04	5.47E+04	5.26E-03	5.26E-01
BP-34-SUB	Cadmium-113m	-3.64E+02	U	2.15E+03	3.55E+03	5.26E-03	5.26E-01
BP-35-SUB	Cadmium-113m	-1.64E+02	U	3.13E+03	2.32E+03	5.26E-03	5.26E-01
BP-38-SUB	Cadmium-113m	-5.19E+02	U	2.13E+03	3.52E+03	5.26E-03	5.26E-01
BP-43-SUB	Cadmium-113m	1.32E+02	U	1.69E+03	2.81E+03	5.26E-03	5.26E-01
BP-45-SUB	Cadmium-113m	-1.13E+02	U	4.62E+03	2.89E+03	5.26E-03	5.26E-01
BP-46-SUB	Cadmium-113m	1.92E+02	U	2.37E+03	3.92E+03	5.26E-03	5.26E-01
BP-48-SUB	Cadmium-113m	3.19E+02	U	2.07E+03	3.42E+03	5.26E-03	5.26E-01
BP-50-SUB	Cadmium-113m	-9.65E+02	U	2.08E+03	3.44E+03	5.26E-03	5.26E-01
BP-51-SUB	Cadmium-113m	4.32E+03		2.76E+03	3.02E+03	5.26E-03	5.26E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.10 - Carbon-14 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Carbon-14	-2.17E-01	U	2.04E+00	3.77E+00	5.63E-05	5.63E-03
LR-2-SUR	Carbon-14	-9.58E-01	U	2.04E+00	3.83E+00	5.63E-05	5.63E-03
LR-3-SUR	Carbon-14	-9.81E-01	U	1.96E+00	3.69E+00	5.63E-05	5.63E-03
LR-4-SUR	Carbon-14	-4.92E-02	U	2.01E+00	3.70E+00	5.63E-05	5.63E-03
LR-5-SUR	Carbon-14	-1.09E-01	U	2.05E+00	3.78E+00	5.63E-05	5.63E-03
LR-6-SUR	Carbon-14	-8.12E-01	U	1.96E+00	3.67E+00	5.63E-05	5.63E-03
LR-7-SUR	Carbon-14	-3.67E-01	U	1.94E+00	3.60E+00	5.63E-05	5.63E-03
LR-8-SUR	Carbon-14	4.35E-01	U	2.00E+00	3.63E+00	5.63E-05	5.63E-03
LR-9-SUR	Carbon-14	9.13E-01	U	1.93E+00	3.44E+00	5.63E-05	5.63E-03
LR-10-SUR	Carbon-14	1.38E+00	U	2.06E+00	3.62E+00	5.63E-05	5.63E-03
LR-11-SUR	Carbon-14	1.39E+00	U	2.06E+00	3.63E+00	5.63E-05	5.63E-03
LR-12-SUR	Carbon-14	-4.26E-01	U	1.95E+00	3.63E+00	5.63E-05	5.63E-03
LR-13-SUR	Carbon-14	1.03E-01	U	1.95E+00	3.59E+00	5.63E-05	5.63E-03
LR-14-SUR	Carbon-14	1.13E+00	U	2.05E+00	3.64E+00	5.63E-05	5.63E-03
LR-15-SUR	Carbon-14	4.64E-01	U	1.93E+00	3.50E+00	5.63E-05	5.63E-03
LR-16-SUR	Carbon-14	9.53E-01	U	2.01E+00	3.59E+00	5.63E-05	5.63E-03
LR-17-SUR	Carbon-14	-6.21E-01	U	1.95E+00	3.63E+00	5.63E-05	5.63E-03
LR-18-SUR	Carbon-14	0.00E+00	U	2.03E+00	3.73E+00	5.63E-05	5.63E-03
LR-19-SUR	Carbon-14	-1.18E+00	U	2.10E+00	3.93E+00	5.63E-05	5.63E-03
LR-20-SUR	Carbon-14	5.10E-01	U	2.19E+00	3.96E+00	5.63E-05	5.63E-03
LR-21-SUR	Carbon-14	1.49E+00	U	2.20E+00	3.86E+00	5.63E-05	5.63E-03
LR-22-SUR	Carbon-14	-5.95E-01	U	2.05E+00	3.80E+00	5.63E-05	5.63E-03
LR-23-SUR	Carbon-14	-1.65E-01	U	2.09E+00	3.85E+00	5.63E-05	5.63E-03
LR-24-SUR	Carbon-14	-5.06E-01	U	2.12E+00	3.94E+00	5.63E-05	5.63E-03
LR-25-SUR	Carbon-14	-1.15E+00	U	2.04E+00	3.83E+00	5.63E-05	5.63E-03
LR-26-SUR	Carbon-14	-2.71E-01	U	2.07E+00	3.83E+00	5.63E-05	5.63E-03
LR-27-SUR	Carbon-14	-9.37E-01	U	2.11E+00	3.94E+00	5.63E-05	5.63E-03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Carbon-14	-5.03E-02	U	1.96E+00	3.63E+00	5.63E-05	5.63E-03
LR-4-SUB	Carbon-14	2.22E+00	U	2.18E+00	3.71E+00	5.63E-05	5.63E-03
LR-9-SUB	Carbon-14	1.36E+00	U	2.08E+00	3.67E+00	5.63E-05	5.63E-03
LR-13-SUB	Carbon-14	2.49E+00		2.11E+00	3.52E+00	5.63E-05	5.63E-03
LR-15-SUB	Carbon-14	1.15E+00	U	2.01E+00	3.56E+00	5.63E-05	5.63E-03
LR-18-SUB	Carbon-14	1.57E+00	U	2.08E+00	3.64E+00	5.63E-05	5.63E-03
LR-19-SUB	Carbon-14	1.31E+00	U	2.01E+00	3.54E+00	5.63E-05	5.63E-03
LR-23-SUB	Carbon-14	-1.55E+00	U	2.04E+00	3.82E+00	5.63E-05	5.63E-03
LR-24-SUB	Carbon-14	-1.10E-01	U	2.19E+00	4.02E+00	5.63E-05	5.63E-03
LR-26-SUB	Carbon-14	-3.78E-01	U	2.11E+00	3.90E+00	5.63E-05	5.63E-03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Carbon-14	-4.50E-01	U	2.18E+00	4.04E+00	5.63E-05	5.63E-03
RP-2-SUR	Carbon-14	5.04E-01	U	2.21E+00	3.99E+00	5.63E-05	5.63E-03
RP-3-SUR	Carbon-14	-8.14E-01	U	2.08E+00	3.87E+00	5.63E-05	5.63E-03
RP-4-SUR	Carbon-14	-2.00E+00	U	2.11E+00	3.96E+00	5.63E-05	5.63E-03
RP-5-SUR	Carbon-14	-5.41E-01	U	2.10E+00	3.89E+00	5.63E-05	5.63E-03
RP-6-SUR	Carbon-14	-2.03E+00	U	2.09E+00	3.93E+00	5.63E-05	5.63E-03
RP-7-SUR	Carbon-14	1.14E-01	U	2.13E+00	3.89E+00	5.63E-05	5.63E-03
RP-8-SUR	Carbon-14	-1.39E+00	U	2.12E+00	3.97E+00	5.63E-05	5.63E-03
RP-9-SUR	Carbon-14	-1.21E+00	U	2.10E+00	3.93E+00	5.63E-05	5.63E-03
RP-10-SUR	Carbon-14	-4.39E-01	U	2.13E+00	3.93E+00	5.63E-05	5.63E-03
RP-11-SUR	Carbon-14	5.68E-02	U	2.11E+00	3.86E+00	5.63E-05	5.63E-03
RP-12-SUR	Carbon-14	4.45E-01	U	2.16E+00	3.92E+00	5.63E-05	5.63E-03
RP-13-SUR	Carbon-14	-2.06E+00	U	2.12E+00	3.98E+00	5.63E-05	5.63E-03
RP-14-SUR	Carbon-14	-9.49E-01	U	2.14E+00	3.99E+00	5.63E-05	5.63E-03
RP-15-SUR	Carbon-14	-1.87E+00	U	2.09E+00	3.92E+00	5.63E-05	5.63E-03
RP-16-SUR	Carbon-14	-7.16E-01	U	2.13E+00	3.96E+00	5.63E-05	5.63E-03
RP-17-SUR	Carbon-14	-6.10E-01	U	2.14E+00	3.97E+00	5.63E-05	5.63E-03
RP-18-SUR	Carbon-14	-5.93E-01	U	2.08E+00	3.86E+00	5.63E-05	5.63E-03
RP-19-SUR	Carbon-14	1.44E+00	U	2.05E+00	3.60E+00	5.63E-05	5.63E-03
RP-20-SUR	Carbon-14	1.30E+00	U	1.98E+00	3.50E+00	5.63E-05	5.63E-03
RP-21-SUR	Carbon-14	2.73E-01	U	1.94E+00	3.56E+00	5.63E-05	5.63E-03

Table 6.10 - Carbon-14 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Carbon-14	1.56E+00	U	2.05E+00	3.59E+00	5.63E-05	5.63E-03
RP-23-SUR	Carbon-14	2.15E+00		2.10E+00	3.56E+00	5.63E-05	5.63E-03
RP-24-SUR	Carbon-14	2.83E+00		2.15E+00	3.51E+00	5.63E-05	5.63E-03
RP-25-SUR	Carbon-14	9.54E-01	U	2.03E+00	3.64E+00	5.63E-05	5.63E-03
RP-26-SUR	Carbon-14	3.37E-01	U	1.98E+00	3.63E+00	5.63E-05	5.63E-03
RP-27-SUR	Carbon-14	1.15E+00	U	2.00E+00	3.55E+00	5.63E-05	5.63E-03
RP-28-SUR	Carbon-14	1.78E+00	U	2.08E+00	3.60E+00	5.63E-05	5.63E-03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Carbon-14	1.24E+00	U	2.06E+00	3.65E+00	5.63E-05	5.63E-03
RP-5-SUB	Carbon-14	2.14E+00	U	2.14E+00	3.64E+00	5.63E-05	5.63E-03
RP-7-SUB	Carbon-14	3.26E+00		2.23E+00	3.57E+00	5.63E-05	5.63E-03
RP-12-SUB	Carbon-14	2.26E-01	U	1.96E+00	3.60E+00	5.63E-05	5.63E-03
RP-13-SUB	Carbon-14	2.44E+00		2.14E+00	3.59E+00	5.63E-05	5.63E-03
RP-17-SUB	Carbon-14	-2.16E-01	U	2.14E+00	3.95E+00	5.63E-05	5.63E-03
RP-18-SUB	Carbon-14	-2.18E-01	U	2.16E+00	3.98E+00	5.63E-05	5.63E-03
RP-19-SUB	Carbon-14	-6.84E-01	U	2.19E+00	4.06E+00	5.63E-05	5.63E-03
RP-20-SUB	Carbon-14	-4.45E-01	U	2.16E+00	3.99E+00	5.63E-05	5.63E-03
RP-28-SUB	Carbon-14	-1.69E+00	U	2.14E+00	4.01E+00	5.63E-05	5.63E-03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Carbon-14	1.08E+00	U	2.02E+00	3.60E+00	5.63E-05	5.63E-03
BP-2-SUR	Carbon-14	1.62E-01	U	1.98E+00	3.63E+00	5.63E-05	5.63E-03
BP-3-SUR	Carbon-14	1.08E+00	U	2.04E+00	3.62E+00	5.63E-05	5.63E-03
BP-4-SUR	Carbon-14	1.45E+00	U	2.13E+00	3.74E+00	5.63E-05	5.63E-03
BP-5-SUR	Carbon-14	-3.78E-01	U	1.98E+00	3.68E+00	5.63E-05	5.63E-03
BP-6-SUR	Carbon-14	4.48E-01	U	2.04E+00	3.71E+00	5.63E-05	5.63E-03
BP-7-SUR	Carbon-14	-7.19E-01	U	2.00E+00	3.75E+00	5.63E-05	5.63E-03
BP-8-SUR	Carbon-14	5.50E-01	U	2.03E+00	3.68E+00	5.63E-05	5.63E-03
BP-9-SUR	Carbon-14	6.15E-01	U	2.06E+00	3.72E+00	5.63E-05	5.63E-03
BP-10-SUR	Carbon-14	1.05E+00	U	2.07E+00	3.69E+00	5.63E-05	5.63E-03
BP-11-SUR	Carbon-14	-1.05E-01	U	1.96E+00	3.63E+00	5.63E-05	5.63E-03
BP-12-SUR	Carbon-14	1.36E+00	U	2.16E+00	3.80E+00	5.63E-05	5.63E-03
BP-13-SUR	Carbon-14	1.11E+00	U	2.08E+00	3.70E+00	5.63E-05	5.63E-03
BP-14-SUR	Carbon-14	1.10E+00	U	2.07E+00	3.68E+00	5.63E-05	5.63E-03
BP-15-SUR	Carbon-14	5.00E-01	U	2.05E+00	3.73E+00	5.63E-05	5.63E-03
BP-16-SUR	Carbon-14	1.41E+00	U	2.15E+00	3.78E+00	5.63E-05	5.63E-03
BP-17-SUR	Carbon-14	0.00E+00	U	1.94E+00	3.57E+00	5.63E-05	5.63E-03
BP-18-SUR	Carbon-14	6.42E-01	U	1.99E+00	3.59E+00	5.63E-05	5.63E-03
BP-19-SUR	Carbon-14	-1.38E+00	U	2.53E+00	4.85E+00	5.63E-05	5.63E-03
BP-20-SUR	Carbon-14	8.51E-02	U	2.72E+00	5.07E+00	5.63E-05	5.63E-03
BP-21-SUR	Carbon-14	0.00E+00	U	2.69E+00	5.02E+00	5.63E-05	5.63E-03
BP-22-SUR	Carbon-14	8.22E-02	U	2.63E+00	4.90E+00	5.63E-05	5.63E-03
BP-23-SUR	Carbon-14	-2.01E+00	U	2.48E+00	4.79E+00	5.63E-05	5.63E-03
BP-24-SUR	Carbon-14	6.52E-01	U	2.65E+00	4.86E+00	5.63E-05	5.63E-03
BP-25-SUR	Carbon-14	-1.07E+00	U	2.58E+00	4.92E+00	5.63E-05	5.63E-03
BP-26-SUR	Carbon-14	-7.40E-01	U	2.59E+00	4.90E+00	5.63E-05	5.63E-03
BP-27-SUR	Carbon-14	-2.17E+00	U	2.59E+00	4.99E+00	5.63E-05	5.63E-03
BP-28-SUR	Carbon-14	-3.94E-01	U	2.49E+00	4.70E+00	5.63E-05	5.63E-03
BP-29-SUR	Carbon-14	-6.73E-01	U	2.65E+00	5.02E+00	5.63E-05	5.63E-03
BP-30-SUR	Carbon-14	-8.40E-01	U	2.64E+00	5.01E+00	5.63E-05	5.63E-03
BP-31-SUR	Carbon-14	1.65E-01	U	2.64E+00	4.92E+00	5.63E-05	5.63E-03
BP-32-SUR	Carbon-14	-8.34E-01	U	2.62E+00	4.98E+00	5.63E-05	5.63E-03
BP-33-SUR	Carbon-14	-9.10E-01	U	2.60E+00	4.94E+00	5.63E-05	5.63E-03
BP-34-SUR	Carbon-14	-1.29E+00	U	2.51E+00	4.80E+00	5.63E-05	5.63E-03
BP-35-SUR	Carbon-14	-1.22E+00	U	2.17E+00	4.05E+00	5.63E-05	5.63E-03
BP-36-SUR	Carbon-14	-6.05E-01	U	2.17E+00	4.02E+00	5.63E-05	5.63E-03
BP-37-SUR	Carbon-14	-1.42E+00	U	2.13E+00	3.97E+00	5.63E-05	5.63E-03
BP-38-SUR	Carbon-14	-1.17E+00	U	2.17E+00	4.05E+00	5.63E-05	5.63E-03
BP-39-SUR	Carbon-14	-8.78E-01	U	2.16E+00	4.02E+00	5.63E-05	5.63E-03
BP-40-SUR	Carbon-14	-1.11E+00	U	2.17E+00	4.05E+00	5.63E-05	5.63E-03
BP-41-SUR	Carbon-14	-8.96E-01	U	2.21E+00	4.10E+00	5.63E-05	5.63E-03
BP-42-SUR	Carbon-14	-1.54E+00	U	2.14E+00	4.01E+00	5.63E-05	5.63E-03

Table 6.10 - Carbon-14 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Carbon-14	-1.67E+00	U	2.10E+00	3.94E+00	5.63E-05	5.63E-03
BP-44-SUR	Carbon-14	-1.53E+00	U	2.21E+00	4.14E+00	5.63E-05	5.63E-03
BP-45-SUR	Carbon-14	1.14E-01	U	2.16E+00	3.94E+00	5.63E-05	5.63E-03
BP-46-SUR	Carbon-14	9.76E-01	U	2.21E+00	3.95E+00	5.63E-05	5.63E-03
BP-47-SUR	Carbon-14	-1.22E+00	U	2.18E+00	4.07E+00	5.63E-05	5.63E-03
BP-48-SUR	Carbon-14	-1.87E+00	U	2.15E+00	4.02E+00	5.63E-05	5.63E-03
BP-49-SUR	Carbon-14	-2.20E+00	U	2.19E+00	4.10E+00	5.63E-05	5.63E-03
BP-50-SUR	Carbon-14	-2.18E+00	UL	2.13E+00	3.98E+00	5.63E-05	5.63E-03
BP-51-SUR	Carbon-14	-1.78E+00	U	2.17E+00	4.06E+00	5.63E-05	5.63E-03
BP-52-SUR	Carbon-14	-5.06E-02	U	2.23E+00	4.09E+00	5.63E-05	5.63E-03
BP-53-SUR	Carbon-14	-2.24E+00	UL	2.13E+00	3.99E+00	5.63E-05	5.63E-03
BP-54-SUR	Carbon-14	-1.21E+00	U	2.16E+00	4.02E+00	5.63E-05	5.63E-03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Carbon-14	1.10E-01	U	2.04E+00	3.76E+00	5.63E-05	5.63E-03
BP-4-SUB	Carbon-14	1.18E+00	U	2.10E+00	3.73E+00	5.63E-05	5.63E-03
BP-5-SUB	Carbon-14	8.17E-01	U	2.01E+00	3.62E+00	5.63E-05	5.63E-03
BP-9-SUB	Carbon-14	2.26E+00		2.16E+00	3.66E+00	5.63E-05	5.63E-03
BP-12-SUB	Carbon-14	1.35E+00	U	2.11E+00	3.73E+00	5.63E-05	5.63E-03
BP-13-SUB	Carbon-14	-4.54E-01	U	2.00E+00	3.73E+00	5.63E-05	5.63E-03
BP-14-SUB	Carbon-14	1.71E+00	U	2.11E+00	3.67E+00	5.63E-05	5.63E-03
BP-16-SUB	Carbon-14	4.86E-01	U	1.97E+00	3.59E+00	5.63E-05	5.63E-03
BP-20-SUB	Carbon-14	1.14E+00	U	2.04E+00	3.62E+00	5.63E-05	5.63E-03
BP-23-SUB	Carbon-14	1.33E+00	U	2.02E+00	3.55E+00	5.63E-05	5.63E-03
BP-29-SUB	Carbon-14	-7.10E-01	U	1.93E+00	3.62E+00	5.63E-05	5.63E-03
BP-34-SUB	Carbon-14	1.53E+00	U	2.09E+00	3.65E+00	5.63E-05	5.63E-03
BP-35-SUB	Carbon-14	7.65E-01	U	2.02E+00	3.65E+00	5.63E-05	5.63E-03
BP-38-SUB	Carbon-14	1.59E+00	U	2.09E+00	3.65E+00	5.63E-05	5.63E-03
BP-43-SUB	Carbon-14	-1.69E-01	U	2.14E+00	3.94E+00	5.63E-05	5.63E-03
BP-45-SUB	Carbon-14	3.84E-01	U	2.15E+00	3.91E+00	5.63E-05	5.63E-03
BP-46-SUB	Carbon-14	-5.61E-01	U	2.11E+00	3.91E+00	5.63E-05	5.63E-03
BP-48-SUB	Carbon-14	8.21E-01	U	2.14E+00	3.84E+00	5.63E-05	5.63E-03
BP-50-SUB	Carbon-14	5.00E-01	U	2.15E+00	3.90E+00	5.63E-05	5.63E-03
BP-51-SUB	Carbon-14	-9.03E-01	U	2.11E+00	3.95E+00	5.63E-05	5.63E-03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.11 - Cesium-134 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cesium-134	4.15E-03	US	2.04E-02	3.36E-02	7.47E-03	7.47E-01
LR-2-SUR	Cesium-134	1.20E-02	KS	5.40E-03	3.33E-02	7.47E-03	7.47E-01
LR-3-SUR	Cesium-134	1.28E-02	KS	6.39E-03	3.42E-02	7.47E-03	7.47E-01
LR-4-SUR	Cesium-134	1.34E-02	KS	5.89E-03	3.24E-02	7.47E-03	7.47E-01
LR-5-SUR	Cesium-134	1.34E-02	KS	5.70E-03	3.46E-02	7.47E-03	7.47E-01
LR-6-SUR	Cesium-134	1.40E-02	KS	5.86E-03	3.51E-02	7.47E-03	7.47E-01
LR-7-SUR	Cesium-134	7.43E-03	BKS	3.50E-03	3.22E-02	7.47E-03	7.47E-01
LR-8-SUR	Cesium-134	1.03E-02	KS	4.38E-03	3.25E-02	7.47E-03	7.47E-01
LR-9-SUR	Cesium-134	1.99E-03	US	2.04E-02	3.37E-02	7.47E-03	7.47E-01
LR-10-SUR	Cesium-134	1.07E-02	KS	4.70E-03	3.72E-02	7.47E-03	7.47E-01
LR-11-SUR	Cesium-134	1.31E-02	KS	5.09E-03	3.75E-02	7.47E-03	7.47E-01
LR-12-SUR	Cesium-134	1.53E-02	KS	6.81E-03	3.11E-02	7.47E-03	7.47E-01
LR-13-SUR	Cesium-134	7.63E-03	BKS	3.65E-03	3.08E-02	7.47E-03	7.47E-01
LR-14-SUR	Cesium-134	1.10E-02	KS	4.75E-03	2.89E-02	7.47E-03	7.47E-01
LR-15-SUR	Cesium-134	1.39E-02	KS	5.53E-03	3.21E-02	7.47E-03	7.47E-01
LR-16-SUR	Cesium-134	1.36E-02	KS	4.85E-03	3.06E-02	7.47E-03	7.47E-01
LR-17-SUR	Cesium-134	8.82E-03	BKS	4.08E-03	2.85E-02	7.47E-03	7.47E-01
LR-18-SUR	Cesium-134	1.45E-02	KS	6.57E-03	3.30E-02	7.47E-03	7.47E-01
LR-19-SUR	Cesium-134	1.25E-02	KS	4.28E-03	3.49E-02	7.47E-03	7.47E-01
LR-20-SUR	Cesium-134	1.23E-02	KS	5.87E-03	3.54E-02	7.47E-03	7.47E-01
LR-21-SUR	Cesium-134	1.43E-02	KS	5.65E-03	3.49E-02	7.47E-03	7.47E-01
LR-22-SUR	Cesium-134	1.46E-02	KS	5.93E-03	3.44E-02	7.47E-03	7.47E-01
LR-23-SUR	Cesium-134	1.47E-02	KS	5.55E-03	3.27E-02	7.47E-03	7.47E-01
LR-24-SUR	Cesium-134	1.37E-02	KS	5.38E-03	3.28E-02	7.47E-03	7.47E-01
LR-25-SUR	Cesium-134	1.39E-02	KS	5.57E-03	3.44E-02	7.47E-03	7.47E-01
LR-26-SUR	Cesium-134	1.41E-02	KS	7.73E-03	3.47E-02	7.47E-03	7.47E-01
LR-27-SUR	Cesium-134	9.38E-03	KS	4.12E-03	3.33E-02	7.47E-03	7.47E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cesium-134	1.32E-02	KS	4.51E-03	3.46E-02	7.47E-03	7.47E-01
LR-4-SUB	Cesium-134	5.79E-04	US	1.86E-02	3.07E-02	7.47E-03	7.47E-01
LR-9-SUB	Cesium-134	1.40E-02	KS	5.52E-03	5.36E-03	7.47E-03	7.47E-01
LR-13-SUB	Cesium-134	1.03E-02	BKS	8.80E-03	3.38E-02	7.47E-03	7.47E-01
LR-15-SUB	Cesium-134	1.71E-02	KS	6.95E-03	4.01E-02	7.47E-03	7.47E-01
LR-18-SUB	Cesium-134	1.24E-02	KS	6.02E-03	3.82E-02	7.47E-03	7.47E-01
LR-19-SUB	Cesium-134	1.65E-02	KS	7.17E-03	3.88E-02	7.47E-03	7.47E-01
LR-23-SUB	Cesium-134	1.93E-02	KS	7.42E-03	4.42E-02	7.47E-03	7.47E-01
LR-24-SUB	Cesium-134	1.65E-02	KS	7.33E-03	3.74E-02	7.47E-03	7.47E-01
LR-26-SUB	Cesium-134	1.84E-02	KS	6.17E-03	3.50E-02	7.47E-03	7.47E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cesium-134	8.17E-03	BKS	3.66E-03	2.47E-02	7.47E-03	7.47E-01
RP-2-SUR	Cesium-134	8.63E-03	BKS	4.23E-03	2.61E-02	7.47E-03	7.47E-01
RP-3-SUR	Cesium-134	1.35E-02	KS	5.67E-03	2.99E-02	7.47E-03	7.47E-01
RP-4-SUR	Cesium-134	9.64E-03	KS	4.53E-03	2.52E-02	7.47E-03	7.47E-01
RP-5-SUR	Cesium-134	7.71E-03	BKS	3.46E-03	2.59E-02	7.47E-03	7.47E-01
RP-6-SUR	Cesium-134	1.72E-03	US	1.63E-02	2.69E-02	7.47E-03	7.47E-01
RP-7-SUR	Cesium-134	1.13E-02	KS	6.25E-03	3.15E-02	7.47E-03	7.47E-01
RP-8-SUR	Cesium-134	8.54E-03	BKS	3.70E-03	3.33E-02	7.47E-03	7.47E-01
RP-9-SUR	Cesium-134	1.19E-02	KS	4.76E-03	2.62E-02	7.47E-03	7.47E-01
RP-10-SUR	Cesium-134	1.23E-02	KS	5.46E-03	2.72E-02	7.47E-03	7.47E-01
RP-11-SUR	Cesium-134	1.31E-02	KS	5.29E-03	3.26E-02	7.47E-03	7.47E-01
RP-12-SUR	Cesium-134	6.24E-03	BKS	2.99E-03	2.44E-02	7.47E-03	7.47E-01
RP-13-SUR	Cesium-134	8.94E-03	KS	3.65E-03	2.38E-02	7.47E-03	7.47E-01
RP-14-SUR	Cesium-134	7.09E-03	BKS	3.23E-03	2.56E-02	7.47E-03	7.47E-01
RP-15-SUR	Cesium-134	9.36E-03	KS	4.28E-03	2.60E-02	7.47E-03	7.47E-01
RP-16-SUR	Cesium-134	8.41E-03	BKS	4.52E-03	2.53E-02	7.47E-03	7.47E-01
RP-17-SUR	Cesium-134	6.70E-03	BKS	3.25E-03	2.60E-02	7.47E-03	7.47E-01
RP-18-SUR	Cesium-134	5.38E-03	BKS	2.83E-03	2.75E-02	7.47E-03	7.47E-01
RP-19-SUR	Cesium-134	1.34E-02	KS	6.28E-03	2.66E-02	7.47E-03	7.47E-01
RP-20-SUR	Cesium-134	1.62E-02	KS	6.11E-03	3.31E-02	7.47E-03	7.47E-01
RP-21-SUR	Cesium-134	5.75E-03	BKS	3.06E-03	2.49E-02	7.47E-03	7.47E-01

Table 6.11 - Cesium-134 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Cesium-134	1.03E-02	KS	4.80E-03	2.53E-02	7.47E-03	7.47E-01
RP-23-SUR	Cesium-134	1.58E-02	KS	7.46E-03	3.28E-02	7.47E-03	7.47E-01
RP-24-SUR	Cesium-134	7.45E-03	BKS	3.95E-03	2.65E-02	7.47E-03	7.47E-01
RP-25-SUR	Cesium-134	1.31E-02	KS	6.12E-03	2.84E-02	7.47E-03	7.47E-01
RP-26-SUR	Cesium-134	1.07E-02	KS	4.64E-03	2.79E-02	7.47E-03	7.47E-01
RP-27-SUR	Cesium-134	1.22E-02	KS	5.10E-03	2.87E-02	7.47E-03	7.47E-01
RP-28-SUR	Cesium-134	9.98E-03	KS	4.63E-03	2.88E-02	7.47E-03	7.47E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cesium-134	1.12E-02	KS	5.04E-03	2.52E-02	7.47E-03	7.47E-01
RP-5-SUB	Cesium-134	2.68E-03	US	1.73E-02	2.85E-02	7.47E-03	7.47E-01
RP-7-SUB	Cesium-134	9.42E-03	BKS	4.97E-03	2.80E-02	7.47E-03	7.47E-01
RP-12-SUB	Cesium-134	9.51E-03	KS	4.38E-03	2.43E-02	7.47E-03	7.47E-01
RP-13-SUB	Cesium-134	1.13E-02	KS	4.48E-03	2.80E-02	7.47E-03	7.47E-01
RP-17-SUB	Cesium-134	1.03E-02	KS	4.01E-03	2.73E-02	7.47E-03	7.47E-01
RP-18-SUB	Cesium-134	1.11E-02	KS	4.64E-03	2.89E-02	7.47E-03	7.47E-01
RP-19-SUB	Cesium-134	1.53E-02	KS	5.46E-03	2.81E-02	7.47E-03	7.47E-01
RP-20-SUB	Cesium-134	1.40E-02	KS	5.51E-03	2.77E-02	7.47E-03	7.47E-01
RP-28-SUB	Cesium-134	1.07E-02	BKS	7.18E-03	2.74E-02	7.47E-03	7.47E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cesium-134	1.61E-02	KS	5.05E-03	3.54E-02	7.47E-03	7.47E-01
BP-2-SUR	Cesium-134	1.82E-02	KS	6.13E-03	3.68E-02	7.47E-03	7.47E-01
BP-3-SUR	Cesium-134	1.74E-02	KS	5.57E-03	3.63E-02	7.47E-03	7.47E-01
BP-4-SUR	Cesium-134	1.48E-02	KS	6.83E-03	3.84E-02	7.47E-03	7.47E-01
BP-5-SUR	Cesium-134	2.23E-02	KS	6.84E-03	3.76E-02	7.47E-03	7.47E-01
BP-6-SUR	Cesium-134	2.24E-02	KS	6.90E-03	3.85E-02	7.47E-03	7.47E-01
BP-7-SUR	Cesium-134	2.46E-02	KS	7.11E-03	3.98E-02	7.47E-03	7.47E-01
BP-8-SUR	Cesium-134	1.73E-02	KS	5.44E-03	3.81E-02	7.47E-03	7.47E-01
BP-9-SUR	Cesium-134	1.76E-02	KS	5.54E-03	3.87E-02	7.47E-03	7.47E-01
BP-10-SUR	Cesium-134	2.32E-02	KS	8.09E-03	3.84E-02	7.47E-03	7.47E-01
BP-11-SUR	Cesium-134	2.17E-02	KS	6.38E-03	3.81E-02	7.47E-03	7.47E-01
BP-12-SUR	Cesium-134	1.55E-02	KS	5.77E-03	3.78E-02	7.47E-03	7.47E-01
BP-13-SUR	Cesium-134	1.71E-02	KS	5.59E-03	3.89E-02	7.47E-03	7.47E-01
BP-14-SUR	Cesium-134	1.49E-02	KS	5.20E-03	3.54E-02	7.47E-03	7.47E-01
BP-15-SUR	Cesium-134	1.69E-02	KS	5.35E-03	3.68E-02	7.47E-03	7.47E-01
BP-16-SUR	Cesium-134	1.78E-02	KS	5.51E-03	3.67E-02	7.47E-03	7.47E-01
BP-17-SUR	Cesium-134	1.77E-02	KS	5.54E-03	3.64E-02	7.47E-03	7.47E-01
BP-18-SUR	Cesium-134	1.51E-02	KS	5.33E-03	3.66E-02	7.47E-03	7.47E-01
BP-19-SUR	Cesium-134	1.68E-02	KS	5.77E-03	3.66E-02	7.47E-03	7.47E-01
BP-20-SUR	Cesium-134	1.41E-02	KS	4.63E-03	3.85E-02	7.47E-03	7.47E-01
BP-21-SUR	Cesium-134	2.11E-02	KS	7.29E-03	3.83E-02	7.47E-03	7.47E-01
BP-22-SUR	Cesium-134	2.37E-02	KS	8.04E-03	3.78E-02	7.47E-03	7.47E-01
BP-23-SUR	Cesium-134	1.62E-02	KS	5.60E-03	3.75E-02	7.47E-03	7.47E-01
BP-24-SUR	Cesium-134	1.77E-02	KS	6.00E-03	3.84E-02	7.47E-03	7.47E-01
BP-25-SUR	Cesium-134	1.36E-02	KS	5.35E-03	3.73E-02	7.47E-03	7.47E-01
BP-26-SUR	Cesium-134	1.70E-02	KS	6.46E-03	3.56E-02	7.47E-03	7.47E-01
BP-27-SUR	Cesium-134	1.64E-02	KS	5.93E-03	3.66E-02	7.47E-03	7.47E-01
BP-28-SUR	Cesium-134	1.46E-02	KS	5.68E-03	3.61E-02	7.47E-03	7.47E-01
BP-29-SUR	Cesium-134	1.70E-02	KS	6.17E-03	3.47E-02	7.47E-03	7.47E-01
BP-30-SUR	Cesium-134	1.66E-02	KS	5.89E-03	3.82E-02	7.47E-03	7.47E-01
BP-31-SUR	Cesium-134	1.45E-02	KS	5.64E-03	3.57E-02	7.47E-03	7.47E-01
BP-32-SUR	Cesium-134	1.58E-02	KS	5.10E-03	3.69E-02	7.47E-03	7.47E-01
BP-33-SUR	Cesium-134	1.93E-02	KS	6.69E-03	3.91E-02	7.47E-03	7.47E-01
BP-34-SUR	Cesium-134	1.99E-02	KS	6.06E-03	3.77E-02	7.47E-03	7.47E-01
BP-35-SUR	Cesium-134	1.26E-02	KS	5.00E-03	3.66E-02	7.47E-03	7.47E-01
BP-36-SUR	Cesium-134	1.84E-02	KS	5.70E-03	3.64E-02	7.47E-03	7.47E-01
BP-37-SUR	Cesium-134	1.64E-02	KS	6.26E-03	3.59E-02	7.47E-03	7.47E-01
BP-38-SUR	Cesium-134	1.68E-02	KS	5.91E-03	3.45E-02	7.47E-03	7.47E-01
BP-39-SUR	Cesium-134	1.20E-02	KS	4.62E-03	3.33E-02	7.47E-03	7.47E-01
BP-40-SUR	Cesium-134	1.30E-02	KS	5.19E-03	3.59E-02	7.47E-03	7.47E-01
BP-41-SUR	Cesium-134	2.11E-02	KS	8.93E-03	3.66E-02	7.47E-03	7.47E-01
BP-42-SUR	Cesium-134	1.19E-02	KS	4.72E-03	3.61E-02	7.47E-03	7.47E-01

Table 6.11 - Cesium-134 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Cesium-134	2.10E-02	KS	6.81E-03	3.45E-02	7.47E-03	7.47E-01
BP-44-SUR	Cesium-134	1.89E-02	KS	6.71E-03	3.58E-02	7.47E-03	7.47E-01
BP-45-SUR	Cesium-134	1.19E-02	KS	4.61E-03	3.43E-02	7.47E-03	7.47E-01
BP-46-SUR	Cesium-134	1.83E-02	KS	6.33E-03	3.57E-02	7.47E-03	7.47E-01
BP-47-SUR	Cesium-134	1.64E-02	KS	4.84E-03	3.21E-02	7.47E-03	7.47E-01
BP-48-SUR	Cesium-134	1.84E-02	KS	6.64E-03	4.05E-02	7.47E-03	7.47E-01
BP-49-SUR	Cesium-134	2.04E-02	KS	5.99E-03	3.13E-02	7.47E-03	7.47E-01
BP-50-SUR	Cesium-134	2.11E-02	KS	7.60E-03	3.53E-02	7.47E-03	7.47E-01
BP-51-SUR	Cesium-134	2.61E-02	KS	8.28E-03	3.03E-02	7.47E-03	7.47E-01
BP-52-SUR	Cesium-134	1.56E-02	KS	5.56E-03	2.86E-02	7.47E-03	7.47E-01
BP-53-SUR	Cesium-134	1.55E-02	KS	6.32E-03	3.46E-02	7.47E-03	7.47E-01
BP-54-SUR	Cesium-134	1.35E-02	KS	4.85E-03	2.55E-02	7.47E-03	7.47E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cesium-134	1.34E-02	KS	4.39E-03	3.09E-02	7.47E-03	7.47E-01
BP-4-SUB	Cesium-134	1.60E-02	KS	5.89E-03	3.68E-02	7.47E-03	7.47E-01
BP-5-SUB	Cesium-134	1.42E-02	KS	4.75E-03	3.33E-02	7.47E-03	7.47E-01
BP-9-SUB	Cesium-134	1.60E-02	KS	4.62E-03	2.80E-02	7.47E-03	7.47E-01
BP-12-SUB	Cesium-134	4.80E-03	US	5.07E-03	3.25E-02	7.47E-03	7.47E-01
BP-13-SUB	Cesium-134	2.25E-02	KS	7.18E-03	3.37E-02	7.47E-03	7.47E-01
BP-14-SUB	Cesium-134	2.04E-02	KS	7.99E-03	3.50E-02	7.47E-03	7.47E-01
BP-16-SUB	Cesium-134	1.39E-02	KS	4.13E-03	2.88E-02	7.47E-03	7.47E-01
BP-20-SUB	Cesium-134	1.13E-02	KS	5.27E-03	3.31E-02	7.47E-03	7.47E-01
BP-23-SUB	Cesium-134	-1.47E-04	US	1.66E-02	2.74E-02	7.47E-03	7.47E-01
BP-29-SUB	Cesium-134	-4.10E-02	US	1.22E-01	2.15E-01	7.47E-03	7.47E-01
BP-34-SUB	Cesium-134	1.67E-02	KS	5.95E-03	3.67E-02	7.47E-03	7.47E-01
BP-35-SUB	Cesium-134	2.26E-02	KS	7.11E-03	2.92E-02	7.47E-03	7.47E-01
BP-38-SUB	Cesium-134	1.42E-02	KS	5.87E-03	3.55E-02	7.47E-03	7.47E-01
BP-43-SUB	Cesium-134	1.04E-02	BKS	7.41E-03	2.97E-02	7.47E-03	7.47E-01
BP-45-SUB	Cesium-134	1.78E-02	KS	5.79E-03	3.49E-02	7.47E-03	7.47E-01
BP-46-SUB	Cesium-134	1.91E-02	KS	6.06E-03	3.92E-02	7.47E-03	7.47E-01
BP-48-SUB	Cesium-134	1.27E-02	KS	4.42E-03	3.34E-02	7.47E-03	7.47E-01
BP-50-SUB	Cesium-134	1.86E-02	KS	7.05E-03	3.17E-02	7.47E-03	7.47E-01
BP-51-SUB	Cesium-134	2.40E-02	KS	7.52E-03	3.60E-02	7.47E-03	7.47E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.12 - Cesium-137 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cesium-137	1.46E-01		1.69E-02	6.74E-03	1.20E-03	1.20E-01
LR-2-SUR	Cesium-137	1.29E-01		1.51E-02	6.72E-03	1.20E-03	1.20E-01
LR-3-SUR	Cesium-137	8.64E-02		1.08E-02	6.81E-03	1.20E-03	1.20E-01
LR-4-SUR	Cesium-137	8.27E-02		1.03E-02	6.59E-03	1.20E-03	1.20E-01
LR-5-SUR	Cesium-137	9.26E-02		1.25E-02	7.25E-03	1.20E-03	1.20E-01
LR-6-SUR	Cesium-137	9.85E-02		1.20E-02	6.80E-03	1.20E-03	1.20E-01
LR-7-SUR	Cesium-137	1.13E-01		1.35E-02	6.66E-03	1.20E-03	1.20E-01
LR-8-SUR	Cesium-137	1.13E-01		1.34E-02	6.51E-03	1.20E-03	1.20E-01
LR-9-SUR	Cesium-137	9.86E-02		1.20E-02	6.84E-03	1.20E-03	1.20E-01
LR-10-SUR	Cesium-137	9.83E-02		1.21E-02	7.12E-03	1.20E-03	1.20E-01
LR-11-SUR	Cesium-137	1.24E-01		1.47E-02	7.09E-03	1.20E-03	1.20E-01
LR-12-SUR	Cesium-137	1.16E-01		1.38E-02	6.69E-03	1.20E-03	1.20E-01
LR-13-SUR	Cesium-137	1.48E-01		1.71E-02	6.52E-03	1.20E-03	1.20E-01
LR-14-SUR	Cesium-137	9.44E-02		1.15E-02	6.39E-03	1.20E-03	1.20E-01
LR-15-SUR	Cesium-137	1.30E-01		1.53E-02	7.31E-03	1.20E-03	1.20E-01
LR-16-SUR	Cesium-137	7.74E-02		9.70E-03	6.37E-03	1.20E-03	1.20E-01
LR-17-SUR	Cesium-137	9.35E-02		1.12E-02	5.92E-03	1.20E-03	1.20E-01
LR-18-SUR	Cesium-137	6.90E-02		9.01E-03	6.73E-03	1.20E-03	1.20E-01
LR-19-SUR	Cesium-137	1.01E-01		1.23E-02	7.07E-03	1.20E-03	1.20E-01
LR-20-SUR	Cesium-137	8.57E-02		1.08E-02	7.10E-03	1.20E-03	1.20E-01
LR-21-SUR	Cesium-137	1.28E-01		1.51E-02	7.08E-03	1.20E-03	1.20E-01
LR-22-SUR	Cesium-137	9.96E-02		1.21E-02	6.76E-03	1.20E-03	1.20E-01
LR-23-SUR	Cesium-137	1.17E-01		1.39E-02	6.65E-03	1.20E-03	1.20E-01
LR-24-SUR	Cesium-137	8.31E-02		1.04E-02	6.59E-03	1.20E-03	1.20E-01
LR-25-SUR	Cesium-137	1.29E-01		1.52E-02	6.76E-03	1.20E-03	1.20E-01
LR-26-SUR	Cesium-137	1.22E-01		1.45E-02	6.80E-03	1.20E-03	1.20E-01
LR-27-SUR	Cesium-137	1.44E-01		1.67E-02	6.61E-03	1.20E-03	1.20E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cesium-137	-5.00E-03	U	5.91E-03	9.38E-03	1.20E-03	1.20E-01
LR-4-SUB	Cesium-137	3.43E-03		3.20E-03	5.22E-03	1.20E-03	1.20E-01
LR-9-SUB	Cesium-137	3.15E-03	U	3.52E-03	5.77E-03	1.20E-03	1.20E-01
LR-13-SUB	Cesium-137	-7.66E-03	UL	5.69E-03	9.21E-03	1.20E-03	1.20E-01
LR-15-SUB	Cesium-137	-3.57E-03	U	7.49E-03	9.91E-03	1.20E-03	1.20E-01
LR-18-SUB	Cesium-137	3.21E-03	U	3.99E-03	6.55E-03	1.20E-03	1.20E-01
LR-19-SUB	Cesium-137	2.38E-03	U	4.01E-03	6.62E-03	1.20E-03	1.20E-01
LR-23-SUB	Cesium-137	-8.79E-05	U	9.22E-03	1.01E-02	1.20E-03	1.20E-01
LR-24-SUB	Cesium-137	-4.41E-04	U	5.39E-03	8.94E-03	1.20E-03	1.20E-01
LR-26-SUB	Cesium-137	-5.02E-03	U	5.50E-03	9.01E-03	1.20E-03	1.20E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cesium-137	4.06E-02		5.88E-03	5.50E-03	1.20E-03	1.20E-01
RP-2-SUR	Cesium-137	3.15E-02		6.36E-03	5.71E-03	1.20E-03	1.20E-01
RP-3-SUR	Cesium-137	5.13E-02		7.56E-03	5.29E-03	1.20E-03	1.20E-01
RP-4-SUR	Cesium-137	3.24E-02		5.90E-03	5.26E-03	1.20E-03	1.20E-01
RP-5-SUR	Cesium-137	1.80E-01		2.12E-02	6.66E-03	1.20E-03	1.20E-01
RP-6-SUR	Cesium-137	1.09E-01		1.28E-02	5.86E-03	1.20E-03	1.20E-01
RP-7-SUR	Cesium-137	7.95E-02		1.13E-02	6.54E-03	1.20E-03	1.20E-01
RP-8-SUR	Cesium-137	1.13E-01		1.43E-02	6.49E-03	1.20E-03	1.20E-01
RP-9-SUR	Cesium-137	1.04E-01		1.12E-02	4.82E-03	1.20E-03	1.20E-01
RP-10-SUR	Cesium-137	1.19E-01		1.47E-02	6.29E-03	1.20E-03	1.20E-01
RP-11-SUR	Cesium-137	4.50E-02		6.27E-03	5.42E-03	1.20E-03	1.20E-01
RP-12-SUR	Cesium-137	6.01E-02		7.70E-03	5.44E-03	1.20E-03	1.20E-01
RP-13-SUR	Cesium-137	3.92E-02		6.86E-03	5.58E-03	1.20E-03	1.20E-01
RP-14-SUR	Cesium-137	6.86E-02		8.58E-03	5.53E-03	1.20E-03	1.20E-01
RP-15-SUR	Cesium-137	8.70E-02		1.05E-02	5.54E-03	1.20E-03	1.20E-01
RP-16-SUR	Cesium-137	1.51E-01		1.79E-02	6.12E-03	1.20E-03	1.20E-01
RP-17-SUR	Cesium-137	1.42E-01		1.75E-02	6.86E-03	1.20E-03	1.20E-01
RP-18-SUR	Cesium-137	1.03E-01		1.34E-02	6.47E-03	1.20E-03	1.20E-01
RP-19-SUR	Cesium-137	5.41E-02		8.20E-03	5.86E-03	1.20E-03	1.20E-01
RP-20-SUR	Cesium-137	5.64E-02		8.39E-03	5.83E-03	1.20E-03	1.20E-01
RP-21-SUR	Cesium-137	9.95E-03		3.47E-03	5.25E-03	1.20E-03	1.20E-01
RP-22-SUR	Cesium-137	7.84E-02		1.08E-02	6.25E-03	1.20E-03	1.20E-01
RP-23-SUR	Cesium-137	1.06E-01		1.43E-02	7.40E-03	1.20E-03	1.20E-01
RP-24-SUR	Cesium-137	1.58E-01		1.91E-02	6.95E-03	1.20E-03	1.20E-01
RP-25-SUR	Cesium-137	1.18E-01		1.38E-02	5.80E-03	1.20E-03	1.20E-01
RP-26-SUR	Cesium-137	4.79E-02		6.61E-03	5.64E-03	1.20E-03	1.20E-01
RP-27-SUR	Cesium-137	1.06E-01		1.26E-02	5.93E-03	1.20E-03	1.20E-01
RP-28-SUR	Cesium-137	6.38E-02		8.30E-03	6.13E-03	1.20E-03	1.20E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cesium-137	-3.53E-03	U	4.55E-03	7.47E-03	1.20E-03	1.20E-01
RP-5-SUB	Cesium-137	-2.83E-03	U	4.81E-03	7.93E-03	1.20E-03	1.20E-01
RP-7-SUB	Cesium-137	4.15E-03		3.53E-03	5.74E-03	1.20E-03	1.20E-01
RP-12-SUB	Cesium-137	9.25E-03		3.43E-03	5.23E-03	1.20E-03	1.20E-01

Table 6.12 - Cesium-137 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-13-SUB	Cesium-137	3.76E-03		3.23E-03	5.24E-03	1.20E-03	1.20E-01
RP-17-SUB	Cesium-137	6.51E-03		4.08E-03	6.55E-03	1.20E-03	1.20E-01
RP-18-SUB	Cesium-137	3.66E-04	U	4.55E-03	7.57E-03	1.20E-03	1.20E-01
RP-19-SUB	Cesium-137	6.58E-04	U	4.65E-03	7.72E-03	1.20E-03	1.20E-01
RP-20-SUB	Cesium-137	-4.58E-03	U	5.86E-03	8.11E-03	1.20E-03	1.20E-01
RP-28-SUB	Cesium-137	3.63E-03		3.09E-03	5.03E-03	1.20E-03	1.20E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cesium-137	6.28E-02		1.01E-02	7.46E-03	1.20E-03	1.20E-01
BP-2-SUR	Cesium-137	8.50E-02		1.07E-02	7.14E-03	1.20E-03	1.20E-01
BP-3-SUR	Cesium-137	6.38E-02		8.60E-03	7.08E-03	1.20E-03	1.20E-01
BP-4-SUR	Cesium-137	8.85E-02		1.29E-02	8.32E-03	1.20E-03	1.20E-01
BP-5-SUR	Cesium-137	5.55E-02		7.88E-03	7.28E-03	1.20E-03	1.20E-01
BP-6-SUR	Cesium-137	7.44E-02		9.69E-03	7.37E-03	1.20E-03	1.20E-01
BP-7-SUR	Cesium-137	8.50E-02		1.08E-02	7.49E-03	1.20E-03	1.20E-01
BP-8-SUR	Cesium-137	9.80E-02		1.20E-02	7.22E-03	1.20E-03	1.20E-01
BP-9-SUR	Cesium-137	9.50E-02		1.17E-02	7.34E-03	1.20E-03	1.20E-01
BP-10-SUR	Cesium-137	7.85E-02		1.01E-02	7.37E-03	1.20E-03	1.20E-01
BP-11-SUR	Cesium-137	4.77E-02		8.93E-03	7.48E-03	1.20E-03	1.20E-01
BP-12-SUR	Cesium-137	8.03E-02		1.02E-02	7.15E-03	1.20E-03	1.20E-01
BP-13-SUR	Cesium-137	7.78E-02		9.73E-03	8.01E-03	1.20E-03	1.20E-01
BP-14-SUR	Cesium-137	1.10E-01		1.31E-02	6.79E-03	1.20E-03	1.20E-01
BP-15-SUR	Cesium-137	4.70E-02		9.60E-03	8.05E-03	1.20E-03	1.20E-01
BP-16-SUR	Cesium-137	6.40E-02		8.52E-03	6.73E-03	1.20E-03	1.20E-01
BP-17-SUR	Cesium-137	6.71E-02		8.91E-03	7.11E-03	1.20E-03	1.20E-01
BP-18-SUR	Cesium-137	1.02E-01		1.23E-02	6.92E-03	1.20E-03	1.20E-01
BP-19-SUR	Cesium-137	9.32E-02		1.09E-02	7.41E-03	1.20E-03	1.20E-01
BP-20-SUR	Cesium-137	1.14E-01		1.51E-02	8.09E-03	1.20E-03	1.20E-01
BP-21-SUR	Cesium-137	8.50E-02		1.08E-02	7.47E-03	1.20E-03	1.20E-01
BP-22-SUR	Cesium-137	7.37E-02		1.12E-02	8.38E-03	1.20E-03	1.20E-01
BP-23-SUR	Cesium-137	7.97E-02		1.24E-02	8.82E-03	1.20E-03	1.20E-01
BP-24-SUR	Cesium-137	8.66E-02		1.05E-02	7.82E-03	1.20E-03	1.20E-01
BP-25-SUR	Cesium-137	1.42E-01		1.67E-02	8.13E-03	1.20E-03	1.20E-01
BP-26-SUR	Cesium-137	9.54E-02		1.11E-02	7.35E-03	1.20E-03	1.20E-01
BP-27-SUR	Cesium-137	1.04E-01		1.40E-02	8.70E-03	1.20E-03	1.20E-01
BP-28-SUR	Cesium-137	1.05E-01		1.34E-02	7.70E-03	1.20E-03	1.20E-01
BP-29-SUR	Cesium-137	1.15E-01		1.46E-02	8.20E-03	1.20E-03	1.20E-01
BP-30-SUR	Cesium-137	7.06E-02		9.28E-03	7.17E-03	1.20E-03	1.20E-01
BP-31-SUR	Cesium-137	6.09E-02		1.01E-02	8.03E-03	1.20E-03	1.20E-01
BP-32-SUR	Cesium-137	4.49E-02		9.09E-03	8.05E-03	1.20E-03	1.20E-01
BP-33-SUR	Cesium-137	8.18E-02		1.21E-02	8.01E-03	1.20E-03	1.20E-01
BP-34-SUR	Cesium-137	7.99E-02		1.22E-02	8.68E-03	1.20E-03	1.20E-01
BP-35-SUR	Cesium-137	8.94E-02		1.12E-02	7.22E-03	1.20E-03	1.20E-01
BP-36-SUR	Cesium-137	9.73E-02		1.20E-02	7.17E-03	1.20E-03	1.20E-01
BP-37-SUR	Cesium-137	7.09E-02		1.11E-02	7.66E-03	1.20E-03	1.20E-01
BP-38-SUR	Cesium-137	8.45E-02		1.06E-02	6.86E-03	1.20E-03	1.20E-01
BP-39-SUR	Cesium-137	5.02E-02		7.23E-03	6.76E-03	1.20E-03	1.20E-01
BP-40-SUR	Cesium-137	5.69E-02		7.94E-03	7.01E-03	1.20E-03	1.20E-01
BP-41-SUR	Cesium-137	7.65E-02		9.40E-03	7.29E-03	1.20E-03	1.20E-01
BP-42-SUR	Cesium-137	4.23E-02		8.38E-03	7.13E-03	1.20E-03	1.20E-01
BP-43-SUR	Cesium-137	6.22E-02		9.59E-03	7.45E-03	1.20E-03	1.20E-01
BP-44-SUR	Cesium-137	1.51E-01		1.75E-02	7.08E-03	1.20E-03	1.20E-01
BP-45-SUR	Cesium-137	9.75E-02		1.36E-02	8.65E-03	1.20E-03	1.20E-01
BP-46-SUR	Cesium-137	1.14E-01		1.52E-02	7.87E-03	1.20E-03	1.20E-01
BP-47-SUR	Cesium-137	8.07E-02		9.42E-03	6.41E-03	1.20E-03	1.20E-01
BP-48-SUR	Cesium-137	9.45E-02		1.19E-02	7.94E-03	1.20E-03	1.20E-01
BP-49-SUR	Cesium-137	7.44E-02		1.08E-02	7.34E-03	1.20E-03	1.20E-01
BP-50-SUR	Cesium-137	5.13E-02		1.01E-02	8.05E-03	1.20E-03	1.20E-01
BP-51-SUR	Cesium-137	8.82E-02		1.16E-02	6.87E-03	1.20E-03	1.20E-01
BP-52-SUR	Cesium-137	1.76E-01		1.93E-02	6.59E-03	1.20E-03	1.20E-01
BP-53-SUR	Cesium-137	7.63E-02		1.25E-02	8.37E-03	1.20E-03	1.20E-01
BP-54-SUR	Cesium-137	5.85E-02		8.53E-03	5.95E-03	1.20E-03	1.20E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cesium-137	2.78E-03		2.78E-03	4.55E-03	1.20E-03	1.20E-01
BP-4-SUB	Cesium-137	-5.01E-03	U	5.53E-03	9.07E-03	1.20E-03	1.20E-01
BP-5-SUB	Cesium-137	-3.32E-03	U	5.50E-03	9.06E-03	1.20E-03	1.20E-01
BP-9-SUB	Cesium-137	-5.64E-03	UL	4.74E-03	7.72E-03	1.20E-03	1.20E-01
BP-12-SUB	Cesium-137	-5.90E-03	UL	5.42E-03	8.84E-03	1.20E-03	1.20E-01
BP-13-SUB	Cesium-137	-9.95E-03	RU	5.85E-03	9.41E-03	1.20E-03	1.20E-01
BP-14-SUB	Cesium-137	-3.21E-03	U	5.59E-03	8.98E-03	1.20E-03	1.20E-01
BP-16-SUB	Cesium-137	1.71E-02		4.19E-03	6.04E-03	1.20E-03	1.20E-01
BP-20-SUB	Cesium-137	-4.48E-03	U	5.61E-03	9.05E-03	1.20E-03	1.20E-01
BP-23-SUB	Cesium-137	-3.12E-04	U	3.48E-03	5.78E-03	1.20E-03	1.20E-01
BP-29-SUB	Cesium-137	-1.88E-02	U	8.99E-02	1.64E-01	1.20E-03	1.20E-01
BP-34-SUB	Cesium-137	-5.93E-03	U	6.02E-03	9.73E-03	1.20E-03	1.20E-01

Table 6.12 - Cesium-137 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-35-SUB	Cesium-137	-5.25E-03	UL	4.73E-03	7.73E-03	1.20E-03	1.20E-01
BP-38-SUB	Cesium-137	-3.36E-03	U	5.91E-03	9.50E-03	1.20E-03	1.20E-01
BP-43-SUB	Cesium-137	-6.47E-03	U	6.65E-03	9.18E-03	1.20E-03	1.20E-01
BP-45-SUB	Cesium-137	2.19E-03	U	4.03E-03	6.66E-03	1.20E-03	1.20E-01
BP-46-SUB	Cesium-137	-4.87E-03	U	8.47E-03	1.07E-02	1.20E-03	1.20E-01
BP-48-SUB	Cesium-137	-7.03E-03	UL	6.42E-03	9.18E-03	1.20E-03	1.20E-01
BP-50-SUB	Cesium-137	2.94E-05	U	5.04E-03	8.39E-03	1.20E-03	1.20E-01
BP-51-SUB	Cesium-137	-8.71E-03	UL	6.17E-03	9.89E-03	1.20E-03	1.20E-01
Distance Test Locations							
NW-2-SUR (SP-10)	Cesium-137	9.46E-02		1.15E-02	6.45E-03	1.20E-03	1.20E-01
NW-3-SUR (SP-13)	Cesium-137	3.94E-02		6.09E-03	6.35E-03	1.20E-03	1.20E-01
NW-4-SUR (LP-14)	Cesium-137	1.19E-01		1.49E-02	6.85E-03	1.20E-03	1.20E-01
NW-5-SUR (LP-7)	Cesium-137	1.31E-01		1.56E-02	7.18E-03	1.20E-03	1.20E-01
NW-6-SUR (LP-8)	Cesium-137	1.75E-01		2.02E-02	7.20E-03	1.20E-03	1.20E-01
SW-1-SUR (Z-10)	Cesium-137	1.03E-02		4.26E-03	6.60E-03	1.20E-03	1.20E-01
SW-3-SUR (Z-4)	Cesium-137	3.19E-01		3.56E-02	6.31E-03	1.20E-03	1.20E-01
SW-5-SUR (Z-14)	Cesium-137	-2.26E-03	U	6.86E-03	8.36E-03	1.20E-03	1.20E-01
SW-6-SUR (Z-13)	Cesium-137	9.96E-03		4.76E-03	7.50E-03	1.20E-03	1.20E-01
SW-7-SUR (Z-3)	Cesium-137	8.92E-03		5.49E-03	8.82E-03	1.20E-03	1.20E-01
SE-1-SUR (SR-2)	Cesium-137	8.63E-03		3.57E-03	5.52E-03	1.20E-03	1.20E-01
SE-2-SUR (SR-3)	Cesium-137	4.45E-03		3.60E-03	5.84E-03	1.20E-03	1.20E-01
SE-3-SUR (TP-11)	Cesium-137	1.62E-02		3.62E-03	5.03E-03	1.20E-03	1.20E-01
SE-4-SUR (TP-14)	Cesium-137	9.00E-03		3.14E-03	2.89E-03	1.20E-03	1.20E-01
SE-6-SUR (TP-16)	Cesium-137	2.33E-02		4.83E-03	6.23E-03	1.20E-03	1.20E-01
NE-1-SUR (RC-7)	Cesium-137	1.21E-01		1.45E-02	7.45E-03	1.20E-03	1.20E-01
NE-3-SUR (SCT-5	Cesium-137	9.76E-02		1.17E-02	5.95E-03	1.20E-03	1.20E-01
NE-4-SUR (SCT-9)	Cesium-137	1.49E-01		1.77E-02	5.94E-03	1.20E-03	1.20E-01
NE-5-SUR (SCT-10)	Cesium-137	1.04E-01		1.33E-02	6.09E-03	1.20E-03	1.20E-01
NE-6-SUR (SCT-11)	Cesium-137	7.54E-02		1.06E-02	6.13E-03	1.20E-03	1.20E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.13 - Cobalt-60 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cobalt-60	-3.81E-03	U	7.98E-03	8.10E-03	9.01E-04	9.01E-02
LR-2-SUR	Cobalt-60	-1.17E-03	U	3.55E-02	7.44E-03	9.01E-04	9.01E-02
LR-3-SUR	Cobalt-60	1.49E-03	U	2.30E-03	7.60E-03	9.01E-04	9.01E-02
LR-4-SUR	Cobalt-60	5.02E-04	U	4.78E-03	7.99E-03	9.01E-04	9.01E-02
LR-5-SUR	Cobalt-60	-1.07E-03	U	6.35E-02	8.36E-03	9.01E-04	9.01E-02
LR-6-SUR	Cobalt-60	2.10E-05	U	3.80E-03	6.41E-03	9.01E-04	9.01E-02
LR-7-SUR	Cobalt-60	-9.45E-04	U	2.93E-01	7.15E-03	9.01E-04	9.01E-02
LR-8-SUR	Cobalt-60	-7.43E-04	U	3.70E-02	6.24E-03	9.01E-04	9.01E-02
LR-9-SUR	Cobalt-60	-1.35E-04	U	6.58E-03	8.30E-03	9.01E-04	9.01E-02
LR-10-SUR	Cobalt-60	-1.20E-03	U	1.47E-02	8.85E-03	9.01E-04	9.01E-02
LR-11-SUR	Cobalt-60	-2.69E-03	U	1.56E-01	8.38E-03	9.01E-04	9.01E-02
LR-12-SUR	Cobalt-60	9.09E-04	U	4.83E-03	8.05E-03	9.01E-04	9.01E-02
LR-13-SUR	Cobalt-60	4.67E-03	U	5.24E-03	7.82E-03	9.01E-04	9.01E-02
LR-14-SUR	Cobalt-60	6.06E-05	U	4.67E-03	7.81E-03	9.01E-04	9.01E-02
LR-15-SUR	Cobalt-60	-1.46E-03	U	1.03E-02	8.43E-03	9.01E-04	9.01E-02
LR-16-SUR	Cobalt-60	-4.14E-05	U	5.56E-03	7.71E-03	9.01E-04	9.01E-02
LR-17-SUR	Cobalt-60	5.65E-03	B	3.96E-03	7.16E-03	9.01E-04	9.01E-02
LR-18-SUR	Cobalt-60	1.77E-03	U	3.78E-03	6.28E-03	9.01E-04	9.01E-02
LR-19-SUR	Cobalt-60	-5.40E-04	U	1.52E-02	8.61E-03	9.01E-04	9.01E-02
LR-20-SUR	Cobalt-60	-1.32E-03	U	1.21E-02	8.66E-03	9.01E-04	9.01E-02
LR-21-SUR	Cobalt-60	-1.47E-03	U	3.51E-02	8.43E-03	9.01E-04	9.01E-02
LR-22-SUR	Cobalt-60	-5.42E-04	U	1.33E-02	7.51E-03	9.01E-04	9.01E-02
LR-23-SUR	Cobalt-60	-1.24E-03	U	5.38E-02	8.11E-03	9.01E-04	9.01E-02
LR-24-SUR	Cobalt-60	-9.58E-04	U	1.62E-01	8.01E-03	9.01E-04	9.01E-02
LR-25-SUR	Cobalt-60	1.20E-03	U	5.03E-03	8.40E-03	9.01E-04	9.01E-02
LR-26-SUR	Cobalt-60	4.77E-04	U	4.65E-03	7.79E-03	9.01E-04	9.01E-02
LR-27-SUR	Cobalt-60	1.76E-03	U	4.75E-03	7.89E-03	9.01E-04	9.01E-02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cobalt-60	-3.73E-04	U	8.55E-03	6.90E-03	9.01E-04	9.01E-02
LR-4-SUB	Cobalt-60	7.06E-04	U	4.42E-03	7.38E-03	9.01E-04	9.01E-02
LR-9-SUB	Cobalt-60	-2.55E-04	U	1.19E-02	7.74E-03	9.01E-04	9.01E-02
LR-13-SUB	Cobalt-60	-6.35E-04	U	1.50E-01	8.26E-03	9.01E-04	9.01E-02
LR-15-SUB	Cobalt-60	-2.64E-03	U	9.56E+00	1.00E-02	9.01E-04	9.01E-02
LR-18-SUB	Cobalt-60	-4.38E-03	U	2.05E-02	9.02E-03	9.01E-04	9.01E-02
LR-19-SUB	Cobalt-60	-2.48E-03	U	5.14E-01	8.82E-03	9.01E-04	9.01E-02
LR-23-SUB	Cobalt-60	3.97E-03	U	3.99E-03	6.54E-03	9.01E-04	9.01E-02
LR-24-SUB	Cobalt-60	1.61E-03	U	3.18E-03	7.88E-03	9.01E-04	9.01E-02
LR-26-SUB	Cobalt-60	1.23E-04	U	4.33E-03	7.24E-03	9.01E-04	9.01E-02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cobalt-60	-5.85E-04	U	1.04E-02	6.97E-03	9.01E-04	9.01E-02
RP-2-SUR	Cobalt-60	-1.29E-03	U	4.61E-03	5.08E-03	9.01E-04	9.01E-02
RP-3-SUR	Cobalt-60	-1.06E-03	U	1.25E-01	6.47E-03	9.01E-04	9.01E-02
RP-4-SUR	Cobalt-60	3.88E-03	B	3.41E-03	6.29E-03	9.01E-04	9.01E-02
RP-5-SUR	Cobalt-60	2.86E-03	U	3.19E-03	7.22E-03	9.01E-04	9.01E-02
RP-6-SUR	Cobalt-60	5.35E-03	B	4.48E-03	7.27E-03	9.01E-04	9.01E-02
RP-7-SUR	Cobalt-60	2.65E-03	U	4.40E-03	7.30E-03	9.01E-04	9.01E-02
RP-8-SUR	Cobalt-60	6.64E-04	U	4.61E-03	7.71E-03	9.01E-04	9.01E-02
RP-9-SUR	Cobalt-60	2.47E-03	U	4.15E-03	4.69E-03	9.01E-04	9.01E-02
RP-10-SUR	Cobalt-60	3.23E-03	U	3.53E-03	7.19E-03	9.01E-04	9.01E-02
RP-11-SUR	Cobalt-60	-1.01E-03	U	2.62E-01	7.58E-03	9.01E-04	9.01E-02
RP-12-SUR	Cobalt-60	2.70E-03	U	4.08E-03	6.73E-03	9.01E-04	9.01E-02
RP-13-SUR	Cobalt-60	1.49E-03	U	4.06E-03	6.73E-03	9.01E-04	9.01E-02
RP-14-SUR	Cobalt-60	-1.44E-04	U	1.48E-02	6.18E-03	9.01E-04	9.01E-02
RP-15-SUR	Cobalt-60	2.62E-03	U	4.18E-03	6.91E-03	9.01E-04	9.01E-02
RP-16-SUR	Cobalt-60	2.12E-03	U	4.08E-03	6.74E-03	9.01E-04	9.01E-02
RP-17-SUR	Cobalt-60	-5.03E-05	U	6.25E-03	6.85E-03	9.01E-04	9.01E-02
RP-18-SUR	Cobalt-60	-2.04E-04	U	3.97E-02	7.09E-03	9.01E-04	9.01E-02
RP-19-SUR	Cobalt-60	1.27E-04	U	3.85E-03	6.43E-03	9.01E-04	9.01E-02
RP-20-SUR	Cobalt-60	-7.64E-04	U	2.72E-02	5.71E-03	9.01E-04	9.01E-02
RP-21-SUR	Cobalt-60	-3.31E-04	U	1.22E-02	6.92E-03	9.01E-04	9.01E-02
RP-22-SUR	Cobalt-60	-3.97E-04	U	1.47E-02	6.41E-03	9.01E-04	9.01E-02
RP-23-SUR	Cobalt-60	5.58E-03	B	5.50E-03	5.67E-03	9.01E-04	9.01E-02
RP-24-SUR	Cobalt-60	1.51E-03	U	4.14E-03	6.88E-03	9.01E-04	9.01E-02
RP-25-SUR	Cobalt-60	5.53E-04	U	3.80E-03	6.37E-03	9.01E-04	9.01E-02
RP-26-SUR	Cobalt-60	-2.45E-03	U	7.45E-03	7.28E-03	9.01E-04	9.01E-02
RP-27-SUR	Cobalt-60	8.27E-04	U	4.39E-03	7.33E-03	9.01E-04	9.01E-02
RP-28-SUR	Cobalt-60	1.01E-02	K	6.61E-03	5.99E-03	9.01E-04	9.01E-02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cobalt-60	-1.24E-04	U	4.77E-03	5.36E-03	9.01E-04	9.01E-02
RP-5-SUB	Cobalt-60	-3.09E-05	U	4.52E-03	7.32E-03	9.01E-04	9.01E-02
RP-7-SUB	Cobalt-60	-1.14E-03	U	2.64E-02	7.42E-03	9.01E-04	9.01E-02
RP-12-SUB	Cobalt-60	1.98E-03	U	3.86E-03	6.42E-03	9.01E-04	9.01E-02

Table 6.13 - Cobalt-60 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-13-SUB	Cobalt-60	6.58E-04	U	4.29E-03	7.18E-03	9.01E-04	9.01E-02
RP-17-SUB	Cobalt-60	6.98E-04	U	4.32E-03	7.20E-03	9.01E-04	9.01E-02
RP-18-SUB	Cobalt-60	-4.88E-04	U	3.15E-02	7.36E-03	9.01E-04	9.01E-02
RP-19-SUB	Cobalt-60	-6.29E-04	U	2.52E-02	6.91E-03	9.01E-04	9.01E-02
RP-20-SUB	Cobalt-60	1.43E-04	U	3.94E-03	6.58E-03	9.01E-04	9.01E-02
RP-28-SUB	Cobalt-60	-1.55E-03	U	4.16E-03	6.90E-03	9.01E-04	9.01E-02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cobalt-60	-4.96E-04	U	2.82E-02	7.86E-03	9.01E-04	9.01E-02
BP-2-SUR	Cobalt-60	1.66E-03	U	4.85E-03	8.06E-03	9.01E-04	9.01E-02
BP-3-SUR	Cobalt-60	2.75E-03	U	4.16E-03	8.10E-03	9.01E-04	9.01E-02
BP-4-SUR	Cobalt-60	1.83E-03	U	4.94E-03	8.21E-03	9.01E-04	9.01E-02
BP-5-SUR	Cobalt-60	1.69E-03	U	4.99E-03	8.30E-03	9.01E-04	9.01E-02
BP-6-SUR	Cobalt-60	1.68E-03	U	4.95E-03	8.23E-03	9.01E-04	9.01E-02
BP-7-SUR	Cobalt-60	-2.34E-03	U	2.49E-02	8.34E-03	9.01E-04	9.01E-02
BP-8-SUR	Cobalt-60	-2.32E-03	U	2.88E-02	8.23E-03	9.01E-04	9.01E-02
BP-9-SUR	Cobalt-60	-5.86E-03	U	1.79E-02	8.39E-03	9.01E-04	9.01E-02
BP-10-SUR	Cobalt-60	-2.79E-03	U	4.81E-02	7.17E-03	9.01E-04	9.01E-02
BP-11-SUR	Cobalt-60	-3.46E-03	U	2.36E-01	8.36E-03	9.01E-04	9.01E-02
BP-12-SUR	Cobalt-60	-3.56E-03	U	1.63E-01	7.47E-03	9.01E-04	9.01E-02
BP-13-SUR	Cobalt-60	-1.47E-03	U	9.73E-03	8.40E-03	9.01E-04	9.01E-02
BP-14-SUR	Cobalt-60	-3.64E-03	U	9.80E-02	7.99E-03	9.01E-04	9.01E-02
BP-15-SUR	Cobalt-60	-6.69E-03	U	1.47E-02	8.17E-03	9.01E-04	9.01E-02
BP-16-SUR	Cobalt-60	-1.40E-03	U	1.17E-02	8.20E-03	9.01E-04	9.01E-02
BP-17-SUR	Cobalt-60	9.59E-04	U	4.62E-03	7.71E-03	9.01E-04	9.01E-02
BP-18-SUR	Cobalt-60	-1.63E-03	U	2.06E-02	8.06E-03	9.01E-04	9.01E-02
BP-19-SUR	Cobalt-60	-2.58E-03	U	8.92E-03	9.04E-03	9.01E-04	9.01E-02
BP-20-SUR	Cobalt-60	-2.45E-03	U	1.26E-02	8.44E-03	9.01E-04	9.01E-02
BP-21-SUR	Cobalt-60	-1.51E-03	U	2.69E-02	8.22E-03	9.01E-04	9.01E-02
BP-22-SUR	Cobalt-60	-1.67E-03	U	7.51E-03	9.41E-03	9.01E-04	9.01E-02
BP-23-SUR	Cobalt-60	7.87E-03	B	7.79E-03	7.73E-03	9.01E-04	9.01E-02
BP-24-SUR	Cobalt-60	2.27E-03	U	7.05E-03	7.65E-03	9.01E-04	9.01E-02
BP-25-SUR	Cobalt-60	5.56E-03	U	5.80E-03	7.51E-03	9.01E-04	9.01E-02
BP-26-SUR	Cobalt-60	7.28E-03	B	5.74E-03	6.99E-03	9.01E-04	9.01E-02
BP-27-SUR	Cobalt-60	-3.32E-03	U	1.02E-02	9.35E-03	9.01E-04	9.01E-02
BP-28-SUR	Cobalt-60	4.11E-03	U	4.90E-03	6.42E-03	9.01E-04	9.01E-02
BP-29-SUR	Cobalt-60	-8.12E-04	U	7.41E-03	8.59E-03	9.01E-04	9.01E-02
BP-30-SUR	Cobalt-60	-1.98E-03	U	7.63E-02	8.15E-03	9.01E-04	9.01E-02
BP-31-SUR	Cobalt-60	-1.52E-03	U	1.26E-02	8.64E-03	9.01E-04	9.01E-02
BP-32-SUR	Cobalt-60	9.21E-04	U	5.21E-03	8.76E-03	9.01E-04	9.01E-02
BP-33-SUR	Cobalt-60	-2.93E-03	U	6.81E-02	7.77E-03	9.01E-04	9.01E-02
BP-34-SUR	Cobalt-60	3.01E-04	U	5.40E-03	9.10E-03	9.01E-04	9.01E-02
BP-35-SUR	Cobalt-60	-3.28E-03	U	4.88E-01	8.22E-03	9.01E-04	9.01E-02
BP-36-SUR	Cobalt-60	2.79E-03	U	3.13E-03	7.88E-03	9.01E-04	9.01E-02
BP-37-SUR	Cobalt-60	1.78E-04	U	4.77E-03	7.97E-03	9.01E-04	9.01E-02
BP-38-SUR	Cobalt-60	-2.46E-03	U	1.35E-01	7.94E-03	9.01E-04	9.01E-02
BP-39-SUR	Cobalt-60	-1.05E-03	U	3.12E-02	6.84E-03	9.01E-04	9.01E-02
BP-40-SUR	Cobalt-60	-2.50E-03	U	1.16E-01	7.83E-03	9.01E-04	9.01E-02
BP-41-SUR	Cobalt-60	3.72E-04	U	5.20E-03	8.74E-03	9.01E-04	9.01E-02
BP-42-SUR	Cobalt-60	-5.27E-03	U	1.11E-02	7.54E-03	9.01E-04	9.01E-02
BP-43-SUR	Cobalt-60	-3.12E-04	U	6.32E-03	8.38E-03	9.01E-04	9.01E-02
BP-44-SUR	Cobalt-60	-3.17E-03	U	2.67E-02	8.05E-03	9.01E-04	9.01E-02
BP-45-SUR	Cobalt-60	9.91E-04	U	5.04E-03	8.45E-03	9.01E-04	9.01E-02
BP-46-SUR	Cobalt-60	9.98E-04	U	3.94E-03	6.60E-03	9.01E-04	9.01E-02
BP-47-SUR	Cobalt-60	-1.60E-03	U	1.38E-02	7.60E-03	9.01E-04	9.01E-02
BP-48-SUR	Cobalt-60	-1.34E-03	U	2.08E-01	7.91E-03	9.01E-04	9.01E-02
BP-49-SUR	Cobalt-60	4.96E-03	U	7.05E-03	6.45E-03	9.01E-04	9.01E-02
BP-50-SUR	Cobalt-60	-4.73E-04	U	1.08E-02	7.95E-03	9.01E-04	9.01E-02
BP-51-SUR	Cobalt-60	-3.17E-03	U	2.02E-01	6.06E-03	9.01E-04	9.01E-02
BP-52-SUR	Cobalt-60	-1.02E-03	U	8.47E-03	7.24E-03	9.01E-04	9.01E-02
BP-53-SUR	Cobalt-60	1.47E-03	U	4.95E-03	8.26E-03	9.01E-04	9.01E-02
BP-54-SUR	Cobalt-60	8.07E-04	U	3.96E-03	6.64E-03	9.01E-04	9.01E-02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cobalt-60	-7.52E-04	U	6.31E-03	7.47E-03	9.01E-04	9.01E-02
BP-4-SUB	Cobalt-60	2.76E-03	U	4.54E-03	7.51E-03	9.01E-04	9.01E-02
BP-5-SUB	Cobalt-60	-1.12E-04	U	5.54E-03	7.81E-03	9.01E-04	9.01E-02
BP-9-SUB	Cobalt-60	-5.81E-03	U	1.05E-01	7.15E-03	9.01E-04	9.01E-02
BP-12-SUB	Cobalt-60	2.72E-03	U	4.38E-03	7.26E-03	9.01E-04	9.01E-02
BP-13-SUB	Cobalt-60	-1.86E-03	U	2.60E-02	7.94E-03	9.01E-04	9.01E-02
BP-14-SUB	Cobalt-60	-2.58E-03	U	1.29E-02	8.18E-03	9.01E-04	9.01E-02
BP-16-SUB	Cobalt-60	-2.64E-03	U	1.21E-02	7.08E-03	9.01E-04	9.01E-02
BP-20-SUB	Cobalt-60	1.26E-02		6.04E-03	5.94E-03	9.01E-04	9.01E-02
BP-23-SUB	Cobalt-60	6.20E-03	B	4.24E-03	5.11E-03	9.01E-04	9.01E-02
BP-29-SUB	Cobalt-60	-1.22E-03	U	4.89E-02	7.96E-02	9.01E-04	9.01E-02
BP-34-SUB	Cobalt-60	-1.57E-05	U	4.90E-03	7.98E-03	9.01E-04	9.01E-02

Table 6.13 - Cobalt-60 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-35-SUB	Cobalt-60	-3.58E-03	U	1.97E-02	7.29E-03	9.01E-04	9.01E-02
BP-38-SUB	Cobalt-60	-1.40E-03	U	8.73E-02	7.11E-03	9.01E-04	9.01E-02
BP-43-SUB	Cobalt-60	-7.49E-04	U	9.07E-03	8.48E-03	9.01E-04	9.01E-02
BP-45-SUB	Cobalt-60	-1.22E-03	U	1.55E-02	7.58E-03	9.01E-04	9.01E-02
BP-46-SUB	Cobalt-60	-3.34E-03	U	1.66E-01	9.82E-03	9.01E-04	9.01E-02
BP-48-SUB	Cobalt-60	-2.80E-03	U	8.17E-02	8.23E-03	9.01E-04	9.01E-02
BP-50-SUB	Cobalt-60	2.26E-03	U	4.77E-03	7.97E-03	9.01E-04	9.01E-02
BP-51-SUB	Cobalt-60	-1.55E-04	U	7.12E-03	7.82E-03	9.01E-04	9.01E-02
Distance Test Locations							
NW-2-SUR (SP-10)	Cobalt-60	-3.46E-04	U	9.83E-03	7.76E-03	9.01E-04	9.01E-02
NW-3-SUR (SP-13)	Cobalt-60	1.63E-03	U	3.32E-03	5.50E-03	9.01E-04	9.01E-02
NW-4-SUR (LP-14)	Cobalt-60	1.08E-03	U	4.69E-03	7.80E-03	9.01E-04	9.01E-02
NW-5-SUR (LP-7)	Cobalt-60	-1.60E-03	U	6.48E-03	8.70E-03	9.01E-04	9.01E-02
NW-6-SUR (LP-8)	Cobalt-60	-1.10E-03	U	7.01E-03	8.61E-03	9.01E-04	9.01E-02
SW-1-SUR (Z-10)	Cobalt-60	-4.55E-04	U	9.38E-03	8.51E-03	9.01E-04	9.01E-02
SW-3-SUR (Z-4)	Cobalt-60	-3.94E-05	U	8.63E-03	8.02E-03	9.01E-04	9.01E-02
SW-5-SUR (Z-14)	Cobalt-60	8.49E-04	U	4.96E-03	8.26E-03	9.01E-04	9.01E-02
SW-6-SUR (Z-13)	Cobalt-60	1.27E-03	U	5.62E-03	9.36E-03	9.01E-04	9.01E-02
SW-7-SUR (Z-3)	Cobalt-60	-4.69E-04	U	3.28E-01	8.53E-03	9.01E-04	9.01E-02
SE-1-SUR (SR-2)	Cobalt-60	-2.63E-04	U	1.05E-01	6.69E-03	9.01E-04	9.01E-02
SE-2-SUR (SR-3)	Cobalt-60	-1.56E-04	U	1.49E-02	7.59E-03	9.01E-04	9.01E-02
SE-3-SUR (TP-11)	Cobalt-60	3.07E-03	U	4.53E-03	4.94E-03	9.01E-04	9.01E-02
SE-4-SUR (TP-14)	Cobalt-60	9.08E-04	U	1.94E-03	3.25E-03	9.01E-04	9.01E-02
SE-6-SUR (TP-16)	Cobalt-60	-2.67E-04	U	1.41E-02	7.56E-03	9.01E-04	9.01E-02
NE-1-SUR (RC-7)	Cobalt-60	-2.55E-04	U	3.51E-02	9.12E-03	9.01E-04	9.01E-02
NE-3-SUR (SCT-5	Cobalt-60	1.04E-02	K	5.42E-03	5.16E-03	9.01E-04	9.01E-02
NE-4-SUR (SCT-9)	Cobalt-60	2.01E-05	U	3.58E-03	6.00E-03	9.01E-04	9.01E-02
NE-5-SUR (SCT-10)	Cobalt-60	1.98E-03	U	4.27E-03	7.07E-03	9.01E-04	9.01E-02
NE-6-SUR (SCT-11)	Cobalt-60	3.68E-04	U	4.08E-03	6.81E-03	9.01E-04	9.01E-02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.14 - Curium-243/244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cm-243/244	1.63E-03	U	1.10E-02	2.54E-02	1.27E-01	1.27E+01
LR-2-SUR	Cm-243/244	-9.07E-03	U	1.20E-02	3.33E-02	1.27E-01	1.27E+01
LR-3-SUR	Cm-243/244	-2.33E-03	U	9.99E-03	2.81E-02	1.27E-01	1.27E+01
LR-4-SUR	Cm-243/244	9.49E-03	U	1.35E-02	2.58E-02	1.27E-01	1.27E+01
LR-5-SUR	Cm-243/244	1.96E-03	U	1.10E-02	1.84E-02	1.27E-01	1.27E+01
LR-6-SUR	Cm-243/244	-6.43E-03	U	1.13E-02	2.89E-02	1.27E-01	1.27E+01
LR-7-SUR	Cm-243/244	9.01E-04	U	1.21E-02	2.36E-02	1.27E-01	1.27E+01
LR-8-SUR	Cm-243/244	3.85E-03	U	1.21E-02	2.96E-02	1.27E-01	1.27E+01
LR-9-SUR	Cm-243/244	7.99E-03	U	1.39E-02	2.84E-02	1.27E-01	1.27E+01
LR-10-SUR	Cm-243/244	3.78E-03	U	1.07E-02	1.82E-02	1.27E-01	1.27E+01
LR-11-SUR	Cm-243/244	-2.19E-04	U	1.03E-02	2.21E-02	1.27E-01	1.27E+01
LR-12-SUR	Cm-243/244	4.51E-03	U	1.09E-02	2.51E-02	1.27E-01	1.27E+01
LR-13-SUR	Cm-243/244	-2.54E-03	U	1.50E-02	2.85E-02	1.27E-01	1.27E+01
LR-14-SUR	Cm-243/244	-7.46E-04	U	1.17E-02	2.59E-02	1.27E-01	1.27E+01
LR-15-SUR	Cm-243/244	-2.99E-03	U	1.05E-02	2.24E-02	1.27E-01	1.27E+01
LR-16-SUR	Cm-243/244	3.91E-03	U	1.09E-02	2.06E-02	1.27E-01	1.27E+01
LR-17-SUR	Cm-243/244	-9.61E-04	U	1.00E-02	1.70E-02	1.27E-01	1.27E+01
LR-18-SUR	Cm-243/244	-4.24E-03	U	1.11E-02	2.55E-02	1.27E-01	1.27E+01
LR-19-SUR	Cm-243/244	1.78E-03	U	6.31E-03	1.68E-02	1.27E-01	1.27E+01
LR-20-SUR	Cm-243/244	3.83E-03	U	8.43E-03	1.95E-02	1.27E-01	1.27E+01
LR-21-SUR	Cm-243/244	-6.37E-03	U	6.39E-03	2.56E-02	1.27E-01	1.27E+01
LR-22-SUR	Cm-243/244	4.53E-03	U	1.20E-02	2.72E-02	1.27E-01	1.27E+01
LR-23-SUR	Cm-243/244	5.58E-03	U	9.55E-03	2.02E-02	1.27E-01	1.27E+01
LR-24-SUR	Cm-243/244	-2.00E-03	U	5.44E-03	1.75E-02	1.27E-01	1.27E+01
LR-25-SUR	Cm-243/244	-2.13E-03	U	5.44E-03	1.81E-02	1.27E-01	1.27E+01
LR-26-SUR	Cm-243/244	1.97E-03	U	6.97E-03	1.86E-02	1.27E-01	1.27E+01
LR-27-SUR	Cm-243/244	3.30E-04	U	4.52E-03	1.49E-02	1.27E-01	1.27E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cm-243/244	1.22E-02		9.54E-03	1.39E-02	1.27E-01	1.27E+01
LR-4-SUB	Cm-243/244	3.23E-04	U	5.56E-03	1.68E-02	1.27E-01	1.27E+01
LR-9-SUB	Cm-243/244	-1.63E-03	U	1.00E-02	3.00E-02	1.27E-01	1.27E+01
LR-13-SUB	Cm-243/244	1.75E-03	U	4.53E-03	8.38E-03	1.27E-01	1.27E+01
LR-15-SUB	Cm-243/244	5.88E-03	U	6.88E-03	1.28E-02	1.27E-01	1.27E+01
LR-18-SUB	Cm-243/244	-9.44E-04	U	4.52E-03	1.26E-02	1.27E-01	1.27E+01
LR-19-SUB	Cm-243/244	-3.93E-03	U	4.60E-03	1.84E-02	1.27E-01	1.27E+01
LR-23-SUB	Cm-243/244	-3.19E-03	U	4.57E-03	1.84E-02	1.27E-01	1.27E+01
LR-24-SUB	Cm-243/244	3.63E-04	U	6.24E-03	1.88E-02	1.27E-01	1.27E+01
LR-26-SUB	Cm-243/244	-1.59E-03	U	6.11E-03	1.77E-02	1.27E-01	1.27E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cm-243/244	4.86E-03	U	5.59E-03	7.77E-03	1.27E-01	1.27E+01
RP-2-SUR	Cm-243/244	2.99E-03	U	4.90E-03	1.14E-02	1.27E-01	1.27E+01
RP-3-SUR	Cm-243/244	3.00E-03	U	5.11E-03	1.21E-02	1.27E-01	1.27E+01
RP-4-SUR	Cm-243/244	0.00E+00	U	5.80E-03	1.70E-02	1.27E-01	1.27E+01
RP-5-SUR	Cm-243/244	-1.59E-03	U	4.53E-03	1.27E-02	1.27E-01	1.27E+01
RP-6-SUR	Cm-243/244	-1.57E-03	U	4.53E-03	1.63E-02	1.27E-01	1.27E+01
RP-7-SUR	Cm-243/244	-1.87E-03	U	5.04E-03	1.94E-02	1.27E-01	1.27E+01
RP-8-SUR	Cm-243/244	-2.78E-03	U	5.94E-03	1.85E-02	1.27E-01	1.27E+01
RP-9-SUR	Cm-243/244	0.00E+00	U	4.59E-03	1.43E-02	1.27E-01	1.27E+01
RP-10-SUR	Cm-243/244	1.61E-03	U	4.53E-03	1.29E-02	1.27E-01	1.27E+01
RP-11-SUR	Cm-243/244	-1.61E-03	U	4.53E-03	1.50E-02	1.27E-01	1.27E+01
RP-12-SUR	Cm-243/244	0.00E+00	U	4.52E-03	1.58E-02	1.27E-01	1.27E+01
RP-13-SUR	Cm-243/244	0.00E+00	U	5.46E-03	1.70E-02	1.27E-01	1.27E+01
RP-14-SUR	Cm-243/244	5.77E-03	U	7.33E-03	1.45E-02	1.27E-01	1.27E+01
RP-15-SUR	Cm-243/244	-1.60E-03	U	4.53E-03	1.66E-02	1.27E-01	1.27E+01
RP-16-SUR	Cm-243/244	3.46E-03	U	7.53E-03	1.80E-02	1.27E-01	1.27E+01
RP-17-SUR	Cm-243/244	1.33E-03	U	5.13E-03	1.38E-02	1.27E-01	1.27E+01
RP-18-SUR	Cm-243/244	-1.50E-03	U	4.53E-03	1.21E-02	1.27E-01	1.27E+01
RP-19-SUR	Cm-243/244	7.13E-03	U	1.43E-02	3.02E-02	1.27E-01	1.27E+01
RP-20-SUR	Cm-243/244	5.48E-03	U	1.27E-02	2.85E-02	1.27E-01	1.27E+01
RP-21-SUR	Cm-243/244	7.07E-03	U	1.13E-02	2.16E-02	1.27E-01	1.27E+01

Table 6.14 - Curium-243/244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Cm-243/244	-2.01E-03	U	1.24E-02	3.70E-02	1.27E-01	1.27E+01
RP-23-SUR	Cm-243/244	-3.55E-03	U	1.13E-02	3.64E-02	1.27E-01	1.27E+01
RP-24-SUR	Cm-243/244	-1.00E-03	U	1.13E-02	2.30E-02	1.27E-01	1.27E+01
RP-25-SUR	Cm-243/244	6.20E-03	U	1.13E-02	2.42E-02	1.27E-01	1.27E+01
RP-26-SUR	Cm-243/244	-3.33E-03	U	1.10E-02	2.87E-02	1.27E-01	1.27E+01
RP-27-SUR	Cm-243/244	-2.87E-03	U	1.08E-02	2.73E-02	1.27E-01	1.27E+01
RP-28-SUR	Cm-243/244	-1.23E-02	UL	1.07E-02	3.34E-02	1.27E-01	1.27E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cm-243/244	-9.62E-04	U	1.09E-02	2.21E-02	1.27E-01	1.27E+01
RP-5-SUB	Cm-243/244	-5.73E-03	U	1.11E-02	3.12E-02	1.27E-01	1.27E+01
RP-7-SUB	Cm-243/244	1.78E-04	U	1.20E-02	3.25E-02	1.27E-01	1.27E+01
RP-12-SUB	Cm-243/244	3.89E-04	U	1.50E-02	4.28E-02	1.27E-01	1.27E+01
RP-13-SUB	Cm-243/244	2.70E-04	U	1.04E-02	2.96E-02	1.27E-01	1.27E+01
RP-17-SUB	Cm-243/244	-9.52E-04	U	1.17E-02	2.36E-02	1.27E-01	1.27E+01
RP-18-SUB	Cm-243/244	-7.96E-04	U	1.14E-02	3.40E-02	1.27E-01	1.27E+01
RP-19-SUB	Cm-243/244	-2.01E-03	U	1.14E-02	2.62E-02	1.27E-01	1.27E+01
RP-20-SUB	Cm-243/244	-5.50E-03	U	1.25E-02	3.54E-02	1.27E-01	1.27E+01
RP-28-SUB	Cm-243/244	5.93E-04	U	1.21E-02	3.44E-02	1.27E-01	1.27E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cm-243/244	7.60E-04	U	1.02E-02	1.99E-02	1.27E-01	1.27E+01
BP-2-SUR	Cm-243/244	0.00E+00	U	1.12E-02	1.22E-02	1.27E-01	1.27E+01
BP-3-SUR	Cm-243/244	4.55E-03	U	1.05E-02	1.77E-02	1.27E-01	1.27E+01
BP-4-SUR	Cm-243/244	-2.28E-03	U	1.19E-02	2.33E-02	1.27E-01	1.27E+01
BP-5-SUR	Cm-243/244	-1.04E-02	U	1.14E-02	3.62E-02	1.27E-01	1.27E+01
BP-6-SUR	Cm-243/244	-9.96E-03	U	1.29E-02	3.59E-02	1.27E-01	1.27E+01
BP-7-SUR	Cm-243/244	-6.56E-03	U	1.38E-02	3.36E-02	1.27E-01	1.27E+01
BP-8-SUR	Cm-243/244	-6.97E-03	U	1.02E-02	3.05E-02	1.27E-01	1.27E+01
BP-9-SUR	Cm-243/244	-6.33E-03	U	9.55E-03	2.55E-02	1.27E-01	1.27E+01
BP-10-SUR	Cm-243/244	6.40E-03	U	1.08E-02	2.08E-02	1.27E-01	1.27E+01
BP-11-SUR	Cm-243/244	3.76E-03	U	1.35E-02	2.80E-02	1.27E-01	1.27E+01
BP-12-SUR	Cm-243/244	6.19E-03	U	1.23E-02	2.72E-02	1.27E-01	1.27E+01
BP-13-SUR	Cm-243/244	2.91E-03	U	9.98E-03	2.48E-02	1.27E-01	1.27E+01
BP-14-SUR	Cm-243/244	-1.29E-03	U	1.35E-02	2.29E-02	1.27E-01	1.27E+01
BP-15-SUR	Cm-243/244	-1.01E-03	U	1.06E-02	1.79E-02	1.27E-01	1.27E+01
BP-16-SUR	Cm-243/244	8.40E-04	U	1.13E-02	2.20E-02	1.27E-01	1.27E+01
BP-17-SUR	Cm-243/244	3.15E-03	U	1.19E-02	1.28E-02	1.27E-01	1.27E+01
BP-18-SUR	Cm-243/244	-9.93E-04	U	1.04E-02	1.76E-02	1.27E-01	1.27E+01
BP-19-SUR	Cm-243/244	2.29E-03	U	1.09E-02	2.46E-02	1.27E-01	1.27E+01
BP-20-SUR	Cm-243/244	-3.47E-03	U	1.15E-02	2.98E-02	1.27E-01	1.27E+01
BP-21-SUR	Cm-243/244	-3.35E-03	U	1.26E-02	3.17E-02	1.27E-01	1.27E+01
BP-22-SUR	Cm-243/244	3.02E-03	U	1.08E-02	2.19E-02	1.27E-01	1.27E+01
BP-23-SUR	Cm-243/244	-4.01E-03	U	1.14E-02	3.06E-02	1.27E-01	1.27E+01
BP-24-SUR	Cm-243/244	3.79E-04	U	1.46E-02	4.17E-02	1.27E-01	1.27E+01
BP-25-SUR	Cm-243/244	7.32E-03	U	1.47E-02	3.10E-02	1.27E-01	1.27E+01
BP-26-SUR	Cm-243/244	-2.15E-03	U	1.33E-02	3.97E-02	1.27E-01	1.27E+01
BP-27-SUR	Cm-243/244	-2.89E-03	U	1.63E-02	3.76E-02	1.27E-01	1.27E+01
BP-28-SUR	Cm-243/244	8.34E-03	U	1.61E-02	3.38E-02	1.27E-01	1.27E+01
BP-29-SUR	Cm-243/244	-1.12E-03	U	1.27E-02	2.58E-02	1.27E-01	1.27E+01
BP-30-SUR	Cm-243/244	-2.90E-03	U	1.09E-02	2.75E-02	1.27E-01	1.27E+01
BP-31-SUR	Cm-243/244	-4.56E-03	U	1.29E-02	3.47E-02	1.27E-01	1.27E+01
BP-32-SUR	Cm-243/244	6.24E-03	U	1.14E-02	2.43E-02	1.27E-01	1.27E+01
BP-33-SUR	Cm-243/244	-3.70E-03	U	1.22E-02	3.18E-02	1.27E-01	1.27E+01
BP-34-SUR	Cm-243/244	-3.11E-03	U	1.17E-02	2.95E-02	1.27E-01	1.27E+01
BP-35-SUR	Cm-243/244	-3.14E-03	U	9.27E-03	3.00E-02	1.27E-01	1.27E+01
BP-36-SUR	Cm-243/244	-2.66E-04	U	1.03E-02	3.08E-02	1.27E-01	1.27E+01
BP-37-SUR	Cm-243/244	-9.22E-04	U	1.14E-02	2.28E-02	1.27E-01	1.27E+01
BP-38-SUR	Cm-243/244	-6.63E-03	U	1.26E-02	3.74E-02	1.27E-01	1.27E+01
BP-39-SUR	Cm-243/244	-2.10E-03	U	1.19E-02	2.74E-02	1.27E-01	1.27E+01
BP-40-SUR	Cm-243/244	-8.21E-04	U	1.11E-02	3.17E-02	1.27E-01	1.27E+01
BP-41-SUR	Cm-243/244	4.97E-03	U	1.58E-02	3.77E-02	1.27E-01	1.27E+01
BP-42-SUR	Cm-243/244	-9.78E-04	U	1.10E-02	2.25E-02	1.27E-01	1.27E+01

Table 6.14 - Curium-243/244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Cm-243/244	1.06E-03	U	1.03E-02	2.59E-02	1.27E-01	1.27E+01
BP-44-SUR	Cm-243/244	-3.82E-03	U	1.08E-02	2.91E-02	1.27E-01	1.27E+01
BP-45-SUR	Cm-243/244	-1.73E-03	U	1.09E-02	2.47E-02	1.27E-01	1.27E+01
BP-46-SUR	Cm-243/244	-3.45E-03	U	1.14E-02	2.96E-02	1.27E-01	1.27E+01
BP-47-SUR	Cm-243/244	1.06E-03	U	1.03E-02	2.60E-02	1.27E-01	1.27E+01
BP-48-SUR	Cm-243/244	-9.85E-04	U	1.11E-02	2.26E-02	1.27E-01	1.27E+01
BP-49-SUR	Cm-243/244	1.67E-04	U	1.13E-02	3.05E-02	1.27E-01	1.27E+01
BP-50-SUR	Cm-243/244	-9.12E-03	U	1.30E-02	4.18E-02	1.27E-01	1.27E+01
BP-51-SUR	Cm-243/244	3.99E-03	U	1.35E-02	3.25E-02	1.27E-01	1.27E+01
BP-52-SUR	Cm-243/244	-1.50E-03	U	9.24E-03	2.76E-02	1.27E-01	1.27E+01
BP-53-SUR	Cm-243/244	2.95E-03	U	1.03E-02	2.06E-02	1.27E-01	1.27E+01
BP-54-SUR	Cm-243/244	-6.95E-03	U	1.32E-02	3.92E-02	1.27E-01	1.27E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cm-243/244	2.02E-03	U	1.30E-02	3.45E-02	1.27E-01	1.27E+01
BP-4-SUB	Cm-243/244	-9.88E-04	U	1.12E-02	2.27E-02	1.27E-01	1.27E+01
BP-5-SUB	Cm-243/244	-2.03E-03	U	1.28E-02	2.89E-02	1.27E-01	1.27E+01
BP-9-SUB	Cm-243/244	2.21E-03	U	1.15E-02	2.66E-02	1.27E-01	1.27E+01
BP-12-SUB	Cm-243/244	-3.25E-03	U	1.08E-02	2.79E-02	1.27E-01	1.27E+01
BP-13-SUB	Cm-243/244	1.47E-02	U	1.82E-02	3.05E-02	1.27E-01	1.27E+01
BP-14-SUB	Cm-243/244	-9.80E-04	U	1.11E-02	2.25E-02	1.27E-01	1.27E+01
BP-16-SUB	Cm-243/244	-4.25E-03	U	1.20E-02	3.23E-02	1.27E-01	1.27E+01
BP-20-SUB	Cm-243/244	-8.96E-03	U	1.28E-02	4.11E-02	1.27E-01	1.27E+01
BP-23-SUB	Cm-243/244	4.80E-03	U	1.30E-02	2.99E-02	1.27E-01	1.27E+01
BP-29-SUB	Cm-243/244	-8.78E-04	U	1.19E-02	3.40E-02	1.27E-01	1.27E+01
BP-34-SUB	Cm-243/244	2.37E-02		2.11E-02	2.93E-02	1.27E-01	1.27E+01
BP-35-SUB	Cm-243/244	7.18E-03	U	1.14E-02	2.20E-02	1.27E-01	1.27E+01
BP-38-SUB	Cm-243/244	2.24E-03	U	1.20E-02	3.25E-02	1.27E-01	1.27E+01
BP-43-SUB	Cm-243/244	3.81E-03	U	1.34E-02	3.09E-02	1.27E-01	1.27E+01
BP-45-SUB	Cm-243/244	-2.95E-03	U	1.39E-02	3.40E-02	1.27E-01	1.27E+01
BP-46-SUB	Cm-243/244	-6.18E-03	U	1.20E-02	3.37E-02	1.27E-01	1.27E+01
BP-48-SUB	Cm-243/244	-1.23E-02	UL	1.06E-02	3.33E-02	1.27E-01	1.27E+01
BP-50-SUB	Cm-243/244	-2.05E-03	U	1.07E-02	2.09E-02	1.27E-01	1.27E+01
BP-51-SUB	Cm-243/244	1.14E-02	U	1.34E-02	2.40E-02	1.27E-01	1.27E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.15 - Curium-245/246 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Cm-245/246	9.71E-03	U	1.20E-02	2.21E-02	9.22E-02	9.22E+00
LR-2-SUR	Cm-245/246	1.81E-02		1.36E-02	1.51E-02	9.22E-02	9.22E+00
LR-3-SUR	Cm-245/246	4.69E-03	U	9.52E-03	2.14E-02	9.22E-02	9.22E+00
LR-4-SUR	Cm-245/246	6.60E-03	U	8.87E-03	1.69E-02	9.22E-02	9.22E+00
LR-5-SUR	Cm-245/246	-2.79E-03	U	6.80E-03	2.47E-02	9.22E-02	9.22E+00
LR-6-SUR	Cm-245/246	1.25E-02		1.20E-02	1.16E-02	9.22E-02	9.22E+00
LR-7-SUR	Cm-245/246	5.92E-03	U	8.95E-03	1.80E-02	9.22E-02	9.22E+00
LR-8-SUR	Cm-245/246	0.00E+00	U	9.09E-03	2.41E-02	9.22E-02	9.22E+00
LR-9-SUR	Cm-245/246	4.58E-03	U	8.67E-03	1.94E-02	9.22E-02	9.22E+00
LR-10-SUR	Cm-245/246	4.70E-03	U	9.54E-03	2.14E-02	9.22E-02	9.22E+00
LR-11-SUR	Cm-245/246	1.54E-02	U	1.67E-02	2.87E-02	9.22E-02	9.22E+00
LR-12-SUR	Cm-245/246	4.83E-03	U	1.16E-02	2.59E-02	9.22E-02	9.22E+00
LR-13-SUR	Cm-245/246	2.31E-03	U	1.43E-02	3.24E-02	9.22E-02	9.22E+00
LR-14-SUR	Cm-245/246	1.23E-02	U	1.42E-02	2.51E-02	9.22E-02	9.22E+00
LR-15-SUR	Cm-245/246	8.44E-03	U	1.25E-02	2.49E-02	9.22E-02	9.22E+00
LR-16-SUR	Cm-245/246	1.00E-02	U	1.08E-02	1.82E-02	9.22E-02	9.22E+00
LR-17-SUR	Cm-245/246	4.17E-03	U	1.07E-02	2.38E-02	9.22E-02	9.22E+00
LR-18-SUR	Cm-245/246	1.44E-02		1.34E-02	2.03E-02	9.22E-02	9.22E+00
LR-19-SUR	Cm-245/246	3.47E-03	U	9.00E-03	2.12E-02	9.22E-02	9.22E+00
LR-20-SUR	Cm-245/246	5.73E-03	U	9.50E-03	2.00E-02	9.22E-02	9.22E+00
LR-21-SUR	Cm-245/246	1.68E-03	U	9.89E-03	2.58E-02	9.22E-02	9.22E+00
LR-22-SUR	Cm-245/246	7.89E-03	U	1.03E-02	1.90E-02	9.22E-02	9.22E+00
LR-23-SUR	Cm-245/246	7.41E-03	U	1.20E-02	2.48E-02	9.22E-02	9.22E+00
LR-24-SUR	Cm-245/246	7.34E-03	U	1.00E-02	1.92E-02	9.22E-02	9.22E+00
LR-25-SUR	Cm-245/246	-7.68E-04	U	8.45E-03	2.34E-02	9.22E-02	9.22E+00
LR-26-SUR	Cm-245/246	8.11E-03	U	1.09E-02	2.08E-02	9.22E-02	9.22E+00
LR-27-SUR	Cm-245/246	9.42E-03	U	1.16E-02	2.10E-02	9.22E-02	9.22E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Cm-245/246	-1.59E-03	U	1.17E-02	2.94E-02	9.22E-02	9.22E+00
LR-4-SUB	Cm-245/246	-3.89E-03	U	9.26E-03	2.47E-02	9.22E-02	9.22E+00
LR-9-SUB	Cm-245/246	5.71E-03	U	1.38E-02	3.18E-02	9.22E-02	9.22E+00
LR-13-SUB	Cm-245/246	7.59E-03	U	1.24E-02	2.60E-02	9.22E-02	9.22E+00
LR-15-SUB	Cm-245/246	7.65E-03	U	9.97E-03	1.87E-02	9.22E-02	9.22E+00
LR-18-SUB	Cm-245/246	1.02E-03	U	9.76E-03	2.33E-02	9.22E-02	9.22E+00
LR-19-SUB	Cm-245/246	2.44E-03	U	1.31E-02	3.22E-02	9.22E-02	9.22E+00
LR-23-SUB	Cm-245/246	-2.83E-03	U	1.09E-02	2.84E-02	9.22E-02	9.22E+00
LR-24-SUB	Cm-245/246	3.36E-04	U	9.16E-03	2.45E-02	9.22E-02	9.22E+00
LR-26-SUB	Cm-245/246	7.57E-03	U	9.48E-03	1.63E-02	9.22E-02	9.22E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Cm-245/246	4.03E-03	U	8.87E-03	2.05E-02	9.22E-02	9.22E+00
RP-2-SUR	Cm-245/246	5.78E-03	U	8.75E-03	1.82E-02	9.22E-02	9.22E+00
RP-3-SUR	Cm-245/246	7.58E-03	U	1.05E-02	2.06E-02	9.22E-02	9.22E+00
RP-4-SUR	Cm-245/246	3.97E-03	U	8.08E-03	1.88E-02	9.22E-02	9.22E+00
RP-5-SUR	Cm-245/246	4.58E-03	U	1.21E-02	2.76E-02	9.22E-02	9.22E+00
RP-6-SUR	Cm-245/246	6.69E-03	U	9.24E-03	1.82E-02	9.22E-02	9.22E+00
RP-7-SUR	Cm-245/246	4.99E-03	U	9.99E-03	2.12E-02	9.22E-02	9.22E+00
RP-8-SUR	Cm-245/246	1.95E-03	U	8.35E-03	2.12E-02	9.22E-02	9.22E+00
RP-9-SUR	Cm-245/246	-8.82E-03	UL	8.32E-03	2.98E-02	9.22E-02	9.22E+00
RP-10-SUR	Cm-245/246	1.51E-02	U	1.56E-02	2.72E-02	9.22E-02	9.22E+00
RP-11-SUR	Cm-245/246	6.10E-03	U	8.66E-03	1.76E-02	9.22E-02	9.22E+00
RP-12-SUR	Cm-245/246	9.99E-03	U	1.39E-02	2.67E-02	9.22E-02	9.22E+00
RP-13-SUR	Cm-245/246	1.32E-02		1.27E-02	2.08E-02	9.22E-02	9.22E+00
RP-14-SUR	Cm-245/246	-2.02E-03	U	7.83E-03	2.38E-02	9.22E-02	9.22E+00
RP-15-SUR	Cm-245/246	5.96E-03	U	7.65E-03	1.46E-02	9.22E-02	9.22E+00
RP-16-SUR	Cm-245/246	3.62E-03	U	1.01E-02	2.27E-02	9.22E-02	9.22E+00
RP-17-SUR	Cm-245/246	3.95E-03	U	9.32E-03	2.15E-02	9.22E-02	9.22E+00
RP-18-SUR	Cm-245/246	8.04E-03	U	1.00E-02	1.90E-02	9.22E-02	9.22E+00
RP-19-SUR	Cm-245/246	6.23E-03	U	1.06E-02	2.21E-02	9.22E-02	9.22E+00
RP-20-SUR	Cm-245/246	8.57E-03	U	1.11E-02	1.89E-02	9.22E-02	9.22E+00
RP-21-SUR	Cm-245/246	2.98E-03	U	1.40E-02	3.53E-02	9.22E-02	9.22E+00

Table 6.15 - Curium-245/246 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Cm-245/246	5.30E-03	U	1.01E-02	2.18E-02	9.22E-02	9.22E+00
RP-23-SUR	Cm-245/246	1.09E-02	U	1.29E-02	2.21E-02	9.22E-02	9.22E+00
RP-24-SUR	Cm-245/246	1.36E-02	U	1.67E-02	2.94E-02	9.22E-02	9.22E+00
RP-25-SUR	Cm-245/246	-1.05E-03	U	9.48E-03	2.08E-02	9.22E-02	9.22E+00
RP-26-SUR	Cm-245/246	-3.43E-04	U	1.09E-02	3.20E-02	9.22E-02	9.22E+00
RP-27-SUR	Cm-245/246	9.53E-03	U	1.26E-02	2.29E-02	9.22E-02	9.22E+00
RP-28-SUR	Cm-245/246	3.82E-03	U	1.27E-02	2.96E-02	9.22E-02	9.22E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Cm-245/246	3.58E-04	U	9.70E-03	2.67E-02	9.22E-02	9.22E+00
RP-5-SUB	Cm-245/246	3.68E-03	U	9.91E-03	2.49E-02	9.22E-02	9.22E+00
RP-7-SUB	Cm-245/246	8.30E-03	U	1.21E-02	2.32E-02	9.22E-02	9.22E+00
RP-12-SUB	Cm-245/246	8.08E-03	U	1.19E-02	2.29E-02	9.22E-02	9.22E+00
RP-13-SUB	Cm-245/246	3.62E-03	U	9.74E-03	2.45E-02	9.22E-02	9.22E+00
RP-17-SUB	Cm-245/246	1.15E-03	U	1.12E-02	3.02E-02	9.22E-02	9.22E+00
RP-18-SUB	Cm-245/246	1.72E-02	U	2.03E-02	3.53E-02	9.22E-02	9.22E+00
RP-19-SUB	Cm-245/246	7.46E-03	U	1.11E-02	2.20E-02	9.22E-02	9.22E+00
RP-20-SUB	Cm-245/246	6.44E-03	U	1.64E-02	4.05E-02	9.22E-02	9.22E+00
RP-28-SUB	Cm-245/246	1.54E-02	U	1.73E-02	2.94E-02	9.22E-02	9.22E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Cm-245/246	1.16E-02	U	1.45E-02	2.64E-02	9.22E-02	9.22E+00
BP-2-SUR	Cm-245/246	8.96E-03	U	1.12E-02	1.97E-02	9.22E-02	9.22E+00
BP-3-SUR	Cm-245/246	6.74E-03	U	1.12E-02	2.17E-02	9.22E-02	9.22E+00
BP-4-SUR	Cm-245/246	3.68E-03	U	1.14E-02	2.62E-02	9.22E-02	9.22E+00
BP-5-SUR	Cm-245/246	-1.52E-03	U	1.33E-02	3.06E-02	9.22E-02	9.22E+00
BP-6-SUR	Cm-245/246	-3.27E-03	U	1.54E-02	3.78E-02	9.22E-02	9.22E+00
BP-7-SUR	Cm-245/246	-8.45E-03	U	1.30E-02	3.88E-02	9.22E-02	9.22E+00
BP-8-SUR	Cm-245/246	8.94E-03	U	1.25E-02	2.39E-02	9.22E-02	9.22E+00
BP-9-SUR	Cm-245/246	-2.43E-04	U	1.14E-02	2.45E-02	9.22E-02	9.22E+00
BP-10-SUR	Cm-245/246	5.76E-03	U	1.05E-02	2.04E-02	9.22E-02	9.22E+00
BP-11-SUR	Cm-245/246	-2.41E-04	U	1.13E-02	2.43E-02	9.22E-02	9.22E+00
BP-12-SUR	Cm-245/246	7.79E-03	U	1.28E-02	2.64E-02	9.22E-02	9.22E+00
BP-13-SUR	Cm-245/246	8.04E-03	U	1.17E-02	1.98E-02	9.22E-02	9.22E+00
BP-14-SUR	Cm-245/246	3.02E-03	U	1.24E-02	2.64E-02	9.22E-02	9.22E+00
BP-15-SUR	Cm-245/246	8.55E-03	U	1.28E-02	2.50E-02	9.22E-02	9.22E+00
BP-16-SUR	Cm-245/246	8.05E-03	U	1.32E-02	2.73E-02	9.22E-02	9.22E+00
BP-17-SUR	Cm-245/246	8.68E-03	U	1.19E-02	2.24E-02	9.22E-02	9.22E+00
BP-18-SUR	Cm-245/246	8.77E-03	U	1.44E-02	2.97E-02	9.22E-02	9.22E+00
BP-19-SUR	Cm-245/246	6.78E-03	U	1.36E-02	2.32E-02	9.22E-02	9.22E+00
BP-20-SUR	Cm-245/246	3.66E-03	U	1.50E-02	3.21E-02	9.22E-02	9.22E+00
BP-21-SUR	Cm-245/246	4.15E-03	U	1.22E-02	2.85E-02	9.22E-02	9.22E+00
BP-22-SUR	Cm-245/246	1.71E-03	U	1.26E-02	2.27E-02	9.22E-02	9.22E+00
BP-23-SUR	Cm-245/246	8.75E-04	U	1.18E-02	2.29E-02	9.22E-02	9.22E+00
BP-24-SUR	Cm-245/246	2.20E-02		1.92E-02	2.76E-02	9.22E-02	9.22E+00
BP-25-SUR	Cm-245/246	1.15E-02	U	1.50E-02	2.79E-02	9.22E-02	9.22E+00
BP-26-SUR	Cm-245/246	1.39E-02	U	1.70E-02	3.05E-02	9.22E-02	9.22E+00
BP-27-SUR	Cm-245/246	-1.43E-03	U	1.41E-02	2.43E-02	9.22E-02	9.22E+00
BP-28-SUR	Cm-245/246	-4.29E-03	U	8.18E-03	2.60E-02	9.22E-02	9.22E+00
BP-29-SUR	Cm-245/246	-1.64E-03	U	1.19E-02	3.21E-02	9.22E-02	9.22E+00
BP-30-SUR	Cm-245/246	8.10E-03	U	1.23E-02	2.18E-02	9.22E-02	9.22E+00
BP-31-SUR	Cm-245/246	9.15E-04	U	1.23E-02	2.40E-02	9.22E-02	9.22E+00
BP-32-SUR	Cm-245/246	1.92E-03	U	1.29E-02	2.97E-02	9.22E-02	9.22E+00
BP-33-SUR	Cm-245/246	1.65E-02	U	1.84E-02	3.12E-02	9.22E-02	9.22E+00
BP-34-SUR	Cm-245/246	5.68E-03	U	1.12E-02	2.17E-02	9.22E-02	9.22E+00
BP-35-SUR	Cm-245/246	2.37E-03	U	9.08E-03	9.97E-03	9.22E-02	9.22E+00
BP-36-SUR	Cm-245/246	1.99E-03	U	9.40E-03	2.24E-02	9.22E-02	9.22E+00
BP-37-SUR	Cm-245/246	4.30E-03	U	9.17E-03	2.02E-02	9.22E-02	9.22E+00
BP-38-SUR	Cm-245/246	4.14E-03	U	9.92E-03	1.72E-02	9.22E-02	9.22E+00
BP-39-SUR	Cm-245/246	2.09E-03	U	1.00E-02	2.22E-02	9.22E-02	9.22E+00
BP-40-SUR	Cm-245/246	3.96E-03	U	9.50E-03	1.65E-02	9.22E-02	9.22E+00
BP-41-SUR	Cm-245/246	-3.03E-03	U	1.16E-02	2.94E-02	9.22E-02	9.22E+00
BP-42-SUR	Cm-245/246	1.09E-02	U	1.27E-02	2.26E-02	9.22E-02	9.22E+00

Table 6.15 - Curium-245/246 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Cm-245/246	-1.28E-03	U	8.31E-03	2.18E-02	9.22E-02	9.22E+00
BP-44-SUR	Cm-245/246	9.71E-04	U	9.27E-03	2.21E-02	9.22E-02	9.22E+00
BP-45-SUR	Cm-245/246	1.95E-02		1.71E-02	2.53E-02	9.22E-02	9.22E+00
BP-46-SUR	Cm-245/246	1.14E-02	U	1.26E-02	2.09E-02	9.22E-02	9.22E+00
BP-47-SUR	Cm-245/246	3.78E-03	U	1.03E-02	2.46E-02	9.22E-02	9.22E+00
BP-48-SUR	Cm-245/246	1.24E-02	U	1.46E-02	2.60E-02	9.22E-02	9.22E+00
BP-49-SUR	Cm-245/246	0.00E+00	U	1.02E-02	2.60E-02	9.22E-02	9.22E+00
BP-50-SUR	Cm-245/246	0.00E+00	U	9.43E-03	1.04E-02	9.22E-02	9.22E+00
BP-51-SUR	Cm-245/246	-1.37E-03	U	8.73E-03	2.09E-02	9.22E-02	9.22E+00
BP-52-SUR	Cm-245/246	5.46E-03	U	9.48E-03	2.05E-02	9.22E-02	9.22E+00
BP-53-SUR	Cm-245/246	8.61E-03	U	9.75E-03	1.59E-02	9.22E-02	9.22E+00
BP-54-SUR	Cm-245/246	2.03E-03	U	9.68E-03	2.14E-02	9.22E-02	9.22E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Cm-245/246	6.97E-03	U	1.09E-02	2.24E-02	9.22E-02	9.22E+00
BP-4-SUB	Cm-245/246	7.50E-03	U	1.23E-02	2.54E-02	9.22E-02	9.22E+00
BP-5-SUB	Cm-245/246	-1.52E-03	U	9.60E-03	3.07E-02	9.22E-02	9.22E+00
BP-9-SUB	Cm-245/246	-7.08E-03	U	7.78E-03	2.86E-02	9.22E-02	9.22E+00
BP-12-SUB	Cm-245/246	1.22E-02	U	1.53E-02	2.78E-02	9.22E-02	9.22E+00
BP-13-SUB	Cm-245/246	-8.63E-04	U	1.34E-02	3.31E-02	9.22E-02	9.22E+00
BP-14-SUB	Cm-245/246	1.40E-03	U	7.73E-03	2.09E-02	9.22E-02	9.22E+00
BP-16-SUB	Cm-245/246	4.47E-03	U	1.06E-02	2.49E-02	9.22E-02	9.22E+00
BP-20-SUB	Cm-245/246	1.18E-02	U	1.26E-02	2.02E-02	9.22E-02	9.22E+00
BP-23-SUB	Cm-245/246	2.75E-03	U	9.09E-03	2.41E-02	9.22E-02	9.22E+00
BP-29-SUB	Cm-245/246	1.06E-02	U	1.08E-02	1.60E-02	9.22E-02	9.22E+00
BP-34-SUB	Cm-245/246	1.79E-02	U	2.00E-02	3.80E-02	9.22E-02	9.22E+00
BP-35-SUB	Cm-245/246	1.24E-02	U	1.40E-02	2.22E-02	9.22E-02	9.22E+00
BP-38-SUB	Cm-245/246	-2.77E-04	U	9.38E-03	2.79E-02	9.22E-02	9.22E+00
BP-43-SUB	Cm-245/246	1.30E-02	U	1.54E-02	2.68E-02	9.22E-02	9.22E+00
BP-45-SUB	Cm-245/246	6.05E-03	U	1.18E-02	2.60E-02	9.22E-02	9.22E+00
BP-46-SUB	Cm-245/246	2.89E-03	U	1.18E-02	2.53E-02	9.22E-02	9.22E+00
BP-48-SUB	Cm-245/246	1.19E-02	U	1.40E-02	2.40E-02	9.22E-02	9.22E+00
BP-50-SUB	Cm-245/246	9.44E-03	U	1.54E-02	3.18E-02	9.22E-02	9.22E+00
BP-51-SUB	Cm-245/246	1.52E-02	U	1.70E-02	2.89E-02	9.22E-02	9.22E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.16 - Curium-248 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Curium-248	5.30E-03	U	1.02E-02	1.11E-02	1.43E-03	1.43E-01
LR-2-SUR	Curium-248	1.41E-03	U	9.43E-03	1.66E-02	1.43E-03	1.43E-01
LR-3-SUR	Curium-248	-1.02E-03	U	9.76E-03	1.70E-02	1.43E-03	1.43E-01
LR-4-SUR	Curium-248	-9.60E-04	U	9.16E-03	1.60E-02	1.43E-03	1.43E-01
LR-5-SUR	Curium-248	-2.43E-03	U	1.16E-02	2.34E-02	1.43E-03	1.43E-01
LR-6-SUR	Curium-248	1.33E-03	U	1.17E-02	1.98E-02	1.43E-03	1.43E-01
LR-7-SUR	Curium-248	-1.72E-03	U	8.22E-03	1.65E-02	1.43E-03	1.43E-01
LR-8-SUR	Curium-248	-4.82E-04	U	8.77E-03	2.06E-02	1.43E-03	1.43E-01
LR-9-SUR	Curium-248	-2.00E-03	U	9.54E-03	1.92E-02	1.43E-03	1.43E-01
LR-10-SUR	Curium-248	2.56E-03	U	9.79E-03	1.08E-02	1.43E-03	1.43E-01
LR-11-SUR	Curium-248	3.83E-03	U	1.07E-02	1.86E-02	1.43E-03	1.43E-01
LR-12-SUR	Curium-248	1.58E-03	U	1.00E-02	1.75E-02	1.43E-03	1.43E-01
LR-13-SUR	Curium-248	8.82E-03	U	1.18E-02	2.25E-02	1.43E-03	1.43E-01
LR-14-SUR	Curium-248	-2.35E-03	U	1.02E-02	2.10E-02	1.43E-03	1.43E-01
LR-15-SUR	Curium-248	6.13E-04	U	1.17E-02	2.36E-02	1.43E-03	1.43E-01
LR-16-SUR	Curium-248	1.16E-03	U	8.33E-03	1.68E-02	1.43E-03	1.43E-01
LR-17-SUR	Curium-248	1.16E-03	U	8.68E-03	2.03E-02	1.43E-03	1.43E-01
LR-18-SUR	Curium-248	-2.10E-03	U	1.00E-02	2.01E-02	1.43E-03	1.43E-01
LR-19-SUR	Curium-248	0.00E+00	U	9.78E-03	1.07E-02	1.43E-03	1.43E-01
LR-20-SUR	Curium-248	-1.18E-03	U	9.94E-03	1.98E-02	1.43E-03	1.43E-01
LR-21-SUR	Curium-248	-1.61E-03	U	1.06E-02	1.98E-02	1.43E-03	1.43E-01
LR-22-SUR	Curium-248	-1.07E-03	U	1.04E-02	1.80E-02	1.43E-03	1.43E-01
LR-23-SUR	Curium-248	6.81E-04	U	1.18E-02	2.35E-02	1.43E-03	1.43E-01
LR-24-SUR	Curium-248	5.12E-04	U	8.85E-03	1.77E-02	1.43E-03	1.43E-01
LR-25-SUR	Curium-248	3.51E-03	U	8.65E-03	2.00E-02	1.43E-03	1.43E-01
LR-26-SUR	Curium-248	-2.11E-03	U	1.03E-02	2.05E-02	1.43E-03	1.43E-01
LR-27-SUR	Curium-248	-2.16E-03	U	1.03E-02	2.08E-02	1.43E-03	1.43E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Curium-248	-1.12E-03	U	8.71E-03	2.04E-02	1.43E-03	1.43E-01
LR-4-SUB	Curium-248	3.16E-04	U	1.01E-02	2.07E-02	1.43E-03	1.43E-01
LR-9-SUB	Curium-248	3.99E-03	U	1.50E-02	1.63E-02	1.43E-03	1.43E-01
LR-13-SUB	Curium-248	-2.57E-03	U	1.23E-02	2.47E-02	1.43E-03	1.43E-01
LR-15-SUB	Curium-248	5.30E-03	U	9.28E-03	1.85E-02	1.43E-03	1.43E-01
LR-18-SUB	Curium-248	0.00E+00	U	1.06E-02	1.17E-02	1.43E-03	1.43E-01
LR-19-SUB	Curium-248	-1.88E-04	U	1.20E-02	2.09E-02	1.43E-03	1.43E-01
LR-23-SUB	Curium-248	-1.08E-03	U	8.42E-03	1.97E-02	1.43E-03	1.43E-01
LR-24-SUB	Curium-248	-2.30E-03	U	1.00E-02	2.05E-02	1.43E-03	1.43E-01
LR-26-SUB	Curium-248	0.00E+00	U	1.02E-02	1.12E-02	1.43E-03	1.43E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Curium-248	-2.20E-05	U	8.68E-03	1.88E-02	1.43E-03	1.43E-01
RP-2-SUR	Curium-248	3.15E-03	U	8.33E-03	1.54E-02	1.43E-03	1.43E-01
RP-3-SUR	Curium-248	4.13E-03	U	8.22E-03	9.30E-03	1.43E-03	1.43E-01
RP-4-SUR	Curium-248	-5.42E-03	U	8.65E-03	2.36E-02	1.43E-03	1.43E-01
RP-5-SUR	Curium-248	0.00E+00	U	9.87E-03	1.12E-02	1.43E-03	1.43E-01
RP-6-SUR	Curium-248	-1.64E-04	U	7.21E-03	1.59E-02	1.43E-03	1.43E-01
RP-7-SUR	Curium-248	-5.08E-04	U	7.17E-03	1.55E-02	1.43E-03	1.43E-01
RP-8-SUR	Curium-248	1.06E-03	U	8.42E-03	1.56E-02	1.43E-03	1.43E-01
RP-9-SUR	Curium-248	-1.20E-03	U	9.51E-03	2.27E-02	1.43E-03	1.43E-01
RP-10-SUR	Curium-248	-2.36E-03	U	9.33E-03	2.40E-02	1.43E-03	1.43E-01
RP-11-SUR	Curium-248	-2.22E-03	U	8.77E-03	2.54E-02	1.43E-03	1.43E-01
RP-12-SUR	Curium-248	2.18E-03	U	1.00E-02	2.50E-02	1.43E-03	1.43E-01
RP-13-SUR	Curium-248	1.20E-03	U	9.50E-03	1.77E-02	1.43E-03	1.43E-01
RP-14-SUR	Curium-248	2.21E-03	U	8.74E-03	9.94E-03	1.43E-03	1.43E-01
RP-15-SUR	Curium-248	-1.45E-03	U	8.56E-03	1.69E-02	1.43E-03	1.43E-01
RP-16-SUR	Curium-248	1.11E-03	U	7.81E-03	1.45E-02	1.43E-03	1.43E-01
RP-17-SUR	Curium-248	4.30E-03	U	8.55E-03	9.68E-03	1.43E-03	1.43E-01
RP-18-SUR	Curium-248	-1.10E-03	U	8.67E-03	2.38E-02	1.43E-03	1.43E-01
RP-19-SUR	Curium-248	3.23E-03	U	1.19E-02	1.26E-02	1.43E-03	1.43E-01
RP-20-SUR	Curium-248	3.46E-03	U	1.28E-02	1.35E-02	1.43E-03	1.43E-01
RP-21-SUR	Curium-248	2.84E-03	U	1.50E-02	2.42E-02	1.43E-03	1.43E-01
RP-22-SUR	Curium-248	2.77E-03	U	1.06E-02	1.35E-02	1.43E-03	1.43E-01
RP-23-SUR	Curium-248	0.00E+00	U	1.13E-02	1.19E-02	1.43E-03	1.43E-01
RP-24-SUR	Curium-248	-1.98E-03	U	1.22E-02	2.25E-02	1.43E-03	1.43E-01
RP-25-SUR	Curium-248	3.81E-04	U	1.40E-02	2.84E-02	1.43E-03	1.43E-01
RP-26-SUR	Curium-248	-1.12E-03	U	1.38E-02	2.23E-02	1.43E-03	1.43E-01
RP-27-SUR	Curium-248	5.70E-03	U	1.24E-02	2.00E-02	1.43E-03	1.43E-01
RP-28-SUR	Curium-248	-9.61E-04	U	1.18E-02	1.91E-02	1.43E-03	1.43E-01

Table 6.16 - Curium-248 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Curium-248	-2.34E-03	U	1.44E-02	2.66E-02	1.43E-03	1.43E-01
RP-5-SUB	Curium-248	-1.09E-03	U	1.34E-02	2.17E-02	1.43E-03	1.43E-01
RP-7-SUB	Curium-248	0.00E+00	U	1.36E-02	1.44E-02	1.43E-03	1.43E-01
RP-12-SUB	Curium-248	-1.10E-03	U	1.35E-02	2.19E-02	1.43E-03	1.43E-01
RP-13-SUB	Curium-248	-1.08E-03	U	1.32E-02	2.13E-02	1.43E-03	1.43E-01
RP-17-SUB	Curium-248	-3.24E-03	U	1.69E-02	3.30E-02	1.43E-03	1.43E-01
RP-18-SUB	Curium-248	-1.72E-03	U	1.80E-02	3.05E-02	1.43E-03	1.43E-01
RP-19-SUB	Curium-248	8.63E-03	U	1.24E-02	2.09E-02	1.43E-03	1.43E-01
RP-20-SUB	Curium-248	0.00E+00	U	1.85E-02	2.11E-02	1.43E-03	1.43E-01
RP-28-SUB	Curium-248	3.69E-03	U	1.39E-02	1.50E-02	1.43E-03	1.43E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Curium-248	-1.02E-03	U	1.06E-02	1.80E-02	1.43E-03	1.43E-01
BP-2-SUR	Curium-248	0.00E+00	U	1.20E-02	1.30E-02	1.43E-03	1.43E-01
BP-3-SUR	Curium-248	-2.32E-03	U	1.21E-02	2.36E-02	1.43E-03	1.43E-01
BP-4-SUR	Curium-248	-1.18E-03	U	1.24E-02	2.10E-02	1.43E-03	1.43E-01
BP-5-SUR	Curium-248	3.86E-03	U	1.45E-02	1.57E-02	1.43E-03	1.43E-01
BP-6-SUR	Curium-248	0.00E+00	U	1.68E-02	1.82E-02	1.43E-03	1.43E-01
BP-7-SUR	Curium-248	-1.10E-03	U	1.19E-02	2.69E-02	1.43E-03	1.43E-01
BP-8-SUR	Curium-248	-1.28E-03	U	1.34E-02	2.27E-02	1.43E-03	1.43E-01
BP-9-SUR	Curium-248	2.12E-03	U	1.25E-02	2.11E-02	1.43E-03	1.43E-01
BP-10-SUR	Curium-248	4.97E-03	U	1.15E-02	1.94E-02	1.43E-03	1.43E-01
BP-11-SUR	Curium-248	2.10E-03	U	1.24E-02	2.10E-02	1.43E-03	1.43E-01
BP-12-SUR	Curium-248	3.32E-03	U	1.25E-02	1.35E-02	1.43E-03	1.43E-01
BP-13-SUR	Curium-248	0.00E+00	U	1.26E-02	1.36E-02	1.43E-03	1.43E-01
BP-14-SUR	Curium-248	0.00E+00	U	1.34E-02	1.46E-02	1.43E-03	1.43E-01
BP-15-SUR	Curium-248	1.71E-03	U	1.01E-02	1.71E-02	1.43E-03	1.43E-01
BP-16-SUR	Curium-248	0.00E+00	U	1.29E-02	1.40E-02	1.43E-03	1.43E-01
BP-17-SUR	Curium-248	4.27E-03	U	1.26E-02	2.45E-02	1.43E-03	1.43E-01
BP-18-SUR	Curium-248	-1.34E-03	U	1.41E-02	2.38E-02	1.43E-03	1.43E-01
BP-19-SUR	Curium-248	1.06E-02	U	1.49E-02	1.59E-02	1.43E-03	1.43E-01
BP-20-SUR	Curium-248	0.00E+00	U	1.63E-02	1.77E-02	1.43E-03	1.43E-01
BP-21-SUR	Curium-248	-1.10E-03	U	1.15E-02	1.95E-02	1.43E-03	1.43E-01
BP-22-SUR	Curium-248	0.00E+00	U	1.38E-02	1.49E-02	1.43E-03	1.43E-01
BP-23-SUR	Curium-248	-2.45E-03	U	1.28E-02	2.50E-02	1.43E-03	1.43E-01
BP-24-SUR	Curium-248	2.22E-03	U	1.31E-02	2.21E-02	1.43E-03	1.43E-01
BP-25-SUR	Curium-248	0.00E+00	U	1.32E-02	1.43E-02	1.43E-03	1.43E-01
BP-26-SUR	Curium-248	3.60E-03	U	1.36E-02	1.47E-02	1.43E-03	1.43E-01
BP-27-SUR	Curium-248	0.00E+00	U	1.54E-02	1.67E-02	1.43E-03	1.43E-01
BP-28-SUR	Curium-248	2.28E-03	U	8.70E-03	1.71E-02	1.43E-03	1.43E-01
BP-29-SUR	Curium-248	-1.24E-03	U	1.30E-02	2.20E-02	1.43E-03	1.43E-01
BP-30-SUR	Curium-248	4.50E-03	U	1.33E-02	1.44E-02	1.43E-03	1.43E-01
BP-31-SUR	Curium-248	9.98E-04	U	1.34E-02	2.61E-02	1.43E-03	1.43E-01
BP-32-SUR	Curium-248	6.12E-03	U	1.41E-02	2.38E-02	1.43E-03	1.43E-01
BP-33-SUR	Curium-248	0.00E+00	U	1.48E-02	1.60E-02	1.43E-03	1.43E-01
BP-34-SUR	Curium-248	6.45E-03	U	1.22E-02	1.32E-02	1.43E-03	1.43E-01
BP-35-SUR	Curium-248	-1.04E-03	U	9.89E-03	1.72E-02	1.43E-03	1.43E-01
BP-36-SUR	Curium-248	5.36E-03	U	1.03E-02	1.13E-02	1.43E-03	1.43E-01
BP-37-SUR	Curium-248	0.00E+00	U	9.95E-03	1.09E-02	1.43E-03	1.43E-01
BP-38-SUR	Curium-248	1.69E-03	U	1.08E-02	1.88E-02	1.43E-03	1.43E-01
BP-39-SUR	Curium-248	3.42E-03	U	1.09E-02	2.19E-02	1.43E-03	1.43E-01
BP-40-SUR	Curium-248	2.70E-03	U	1.03E-02	1.13E-02	1.43E-03	1.43E-01
BP-41-SUR	Curium-248	-4.29E-04	U	1.26E-02	1.85E-02	1.43E-03	1.43E-01
BP-42-SUR	Curium-248	1.62E-03	U	1.03E-02	1.80E-02	1.43E-03	1.43E-01
BP-43-SUR	Curium-248	2.13E-04	U	9.05E-03	1.88E-02	1.43E-03	1.43E-01
BP-44-SUR	Curium-248	1.59E-03	U	1.01E-02	1.76E-02	1.43E-03	1.43E-01
BP-45-SUR	Curium-248	3.02E-03	U	1.15E-02	1.27E-02	1.43E-03	1.43E-01
BP-46-SUR	Curium-248	5.93E-03	U	1.14E-02	1.25E-02	1.43E-03	1.43E-01
BP-47-SUR	Curium-248	0.00E+00	U	1.12E-02	1.24E-02	1.43E-03	1.43E-01
BP-48-SUR	Curium-248	1.74E-03	U	9.36E-03	1.54E-02	1.43E-03	1.43E-01
BP-49-SUR	Curium-248	8.18E-04	U	1.12E-02	1.23E-02	1.43E-03	1.43E-01
BP-50-SUR	Curium-248	-1.08E-03	U	1.03E-02	1.79E-02	1.43E-03	1.43E-01
BP-51-SUR	Curium-248	0.00E+00	U	9.52E-03	1.05E-02	1.43E-03	1.43E-01
BP-52-SUR	Curium-248	5.27E-03	U	1.01E-02	1.11E-02	1.43E-03	1.43E-01
BP-53-SUR	Curium-248	1.56E-03	U	9.96E-03	1.74E-02	1.43E-03	1.43E-01
BP-54-SUR	Curium-248	2.93E-03	U	1.06E-02	2.12E-02	1.43E-03	1.43E-01

Table 6.16 - Curium-248 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Curium-248	9.34E-04	U	1.25E-02	2.45E-02	1.43E-03	1.43E-01
BP-4-SUB	Curium-248	-1.15E-03	U	1.20E-02	2.04E-02	1.43E-03	1.43E-01
BP-5-SUB	Curium-248	1.31E-03	U	1.45E-02	1.58E-02	1.43E-03	1.43E-01
BP-9-SUB	Curium-248	1.96E-03	U	1.15E-02	1.96E-02	1.43E-03	1.43E-01
BP-12-SUB	Curium-248	3.29E-03	U	1.24E-02	1.34E-02	1.43E-03	1.43E-01
BP-13-SUB	Curium-248	-9.41E-04	U	1.01E-02	2.29E-02	1.43E-03	1.43E-01
BP-14-SUB	Curium-248	1.99E-03	U	1.17E-02	1.98E-02	1.43E-03	1.43E-01
BP-16-SUB	Curium-248	3.13E-03	U	1.18E-02	1.28E-02	1.43E-03	1.43E-01
BP-20-SUB	Curium-248	8.40E-04	U	1.13E-02	2.20E-02	1.43E-03	1.43E-01
BP-23-SUB	Curium-248	2.09E-03	U	1.23E-02	2.08E-02	1.43E-03	1.43E-01
BP-29-SUB	Curium-248	5.14E-03	U	9.74E-03	1.05E-02	1.43E-03	1.43E-01
BP-34-SUB	Curium-248	8.42E-03	U	1.55E-02	3.18E-02	1.43E-03	1.43E-01
BP-35-SUB	Curium-248	0.00E+00	U	1.41E-02	1.53E-02	1.43E-03	1.43E-01
BP-38-SUB	Curium-248	0.00E+00	U	1.42E-02	1.54E-02	1.43E-03	1.43E-01
BP-43-SUB	Curium-248	2.34E-02	U	3.61E-02	4.69E-02	1.43E-03	1.43E-01
BP-45-SUB	Curium-248	3.27E-03	U	1.23E-02	1.33E-02	1.43E-03	1.43E-01
BP-46-SUB	Curium-248	-1.23E-03	U	1.29E-02	2.19E-02	1.43E-03	1.43E-01
BP-48-SUB	Curium-248	2.28E-03	U	1.34E-02	2.28E-02	1.43E-03	1.43E-01
BP-50-SUB	Curium-248	4.01E-03	U	1.51E-02	1.63E-02	1.43E-03	1.43E-01
BP-51-SUB	Curium-248	-1.31E-03	U	1.37E-02	2.32E-02	1.43E-03	1.43E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on- site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.17 - Europium-152 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Europium-152	-1.44E-02	U	1.95E-02	2.54E-02	3.76E-02	3.76E+00
LR-2-SUR	Europium-152	2.53E-02		1.27E-02	2.45E-02	3.76E-02	3.76E+00
LR-3-SUR	Europium-152	-1.23E-02	U	2.22E-02	2.78E-02	3.76E-02	3.76E+00
LR-4-SUR	Europium-152	1.23E-03	U	1.93E-03	2.76E-02	3.76E-02	3.76E+00
LR-5-SUR	Europium-152	-8.16E-03	U	2.56E-02	2.79E-02	3.76E-02	3.76E+00
LR-6-SUR	Europium-152	-1.64E-02	U	2.04E-02	2.71E-02	3.76E-02	3.76E+00
LR-7-SUR	Europium-152	4.88E-03	U	5.78E-03	2.75E-02	3.76E-02	3.76E+00
LR-8-SUR	Europium-152	-9.64E-03	U	2.30E-02	2.69E-02	3.76E-02	3.76E+00
LR-9-SUR	Europium-152	-9.93E-03	U	2.38E-02	2.76E-02	3.76E-02	3.76E+00
LR-10-SUR	Europium-152	-1.42E-02	U	1.67E-02	2.73E-02	3.76E-02	3.76E+00
LR-11-SUR	Europium-152	-6.51E-03	U	1.72E-02	2.84E-02	3.76E-02	3.76E+00
LR-12-SUR	Europium-152	-1.05E-02	U	1.65E-02	2.72E-02	3.76E-02	3.76E+00
LR-13-SUR	Europium-152	-5.73E-03	U	1.40E-02	2.31E-02	3.76E-02	3.76E+00
LR-14-SUR	Europium-152	-7.55E-03	U	1.56E-02	2.58E-02	3.76E-02	3.76E+00
LR-15-SUR	Europium-152	-1.09E-02	U	1.68E-02	2.76E-02	3.76E-02	3.76E+00
LR-16-SUR	Europium-152	3.68E-03	U	3.84E-03	2.58E-02	3.76E-02	3.76E+00
LR-17-SUR	Europium-152	-4.35E-03	U	1.49E-02	2.46E-02	3.76E-02	3.76E+00
LR-18-SUR	Europium-152	-1.10E-02	U	1.68E-02	2.77E-02	3.76E-02	3.76E+00
LR-19-SUR	Europium-152	-1.28E-03	U	4.67E-01	2.90E-02	3.76E-02	3.76E+00
LR-20-SUR	Europium-152	-7.87E-03	U	1.56E-02	2.58E-02	3.76E-02	3.76E+00
LR-21-SUR	Europium-152	-1.26E-02	U	2.18E-02	2.89E-02	3.76E-02	3.76E+00
LR-22-SUR	Europium-152	-1.82E-02	U	1.89E-02	2.67E-02	3.76E-02	3.76E+00
LR-23-SUR	Europium-152	-8.80E-03	U	2.25E-02	2.75E-02	3.76E-02	3.76E+00
LR-24-SUR	Europium-152	-1.40E-02	U	1.95E-02	2.67E-02	3.76E-02	3.76E+00
LR-25-SUR	Europium-152	-9.27E-03	U	2.32E-02	2.85E-02	3.76E-02	3.76E+00
LR-26-SUR	Europium-152	-1.22E-02	U	2.15E-02	2.82E-02	3.76E-02	3.76E+00
LR-27-SUR	Europium-152	-1.21E-02	U	3.51E-02	2.75E-02	3.76E-02	3.76E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Europium-152	-1.09E-02	U	2.17E-02	2.80E-02	3.76E-02	3.76E+00
LR-4-SUB	Europium-152	-1.23E-03	U	7.98E-01	2.59E-02	3.76E-02	3.76E+00
LR-9-SUB	Europium-152	9.69E-04	U	1.54E-03	2.73E-02	3.76E-02	3.76E+00
LR-13-SUB	Europium-152	4.00E-03		3.65E-03	2.48E-02	3.76E-02	3.76E+00
LR-15-SUB	Europium-152	-1.53E-02	U	1.93E-02	3.16E-02	3.76E-02	3.76E+00
LR-18-SUB	Europium-152	-2.00E-02	UL	1.79E-02	2.92E-02	3.76E-02	3.76E+00
LR-19-SUB	Europium-152	-1.38E-02	U	1.80E-02	2.95E-02	3.76E-02	3.76E+00
LR-23-SUB	Europium-152	-1.82E-02	U	1.82E-02	2.98E-02	3.76E-02	3.76E+00
LR-24-SUB	Europium-152	1.15E-02		9.29E-03	2.72E-02	3.76E-02	3.76E+00
LR-26-SUB	Europium-152	-8.83E-03	U	1.52E-02	2.51E-02	3.76E-02	3.76E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Europium-152	-1.18E-02	U	1.40E-02	2.29E-02	3.76E-02	3.76E+00
RP-2-SUR	Europium-152	1.28E-02		1.07E-02	1.63E-02	3.76E-02	3.76E+00
RP-3-SUR	Europium-152	-1.08E-02	U	1.41E-02	2.27E-02	3.76E-02	3.76E+00
RP-4-SUR	Europium-152	-1.27E-02	U	1.41E-02	2.30E-02	3.76E-02	3.76E+00
RP-5-SUR	Europium-152	1.25E-02		9.35E-03	2.35E-02	3.76E-02	3.76E+00
RP-6-SUR	Europium-152	-6.19E-03	U	1.46E-02	2.39E-02	3.76E-02	3.76E+00
RP-7-SUR	Europium-152	-1.14E-02	U	1.42E-02	2.28E-02	3.76E-02	3.76E+00
RP-8-SUR	Europium-152	-9.39E-03	U	1.53E-02	2.46E-02	3.76E-02	3.76E+00
RP-9-SUR	Europium-152	-5.22E-03	U	1.20E-02	1.97E-02	3.76E-02	3.76E+00
RP-10-SUR	Europium-152	6.90E-03	U	7.20E-03	2.40E-02	3.76E-02	3.76E+00
RP-11-SUR	Europium-152	-7.37E-03	U	1.41E-02	2.24E-02	3.76E-02	3.76E+00
RP-12-SUR	Europium-152	-5.69E-03	U	1.35E-02	2.21E-02	3.76E-02	3.76E+00
RP-13-SUR	Europium-152	-1.00E-02	U	1.27E-02	2.08E-02	3.76E-02	3.76E+00
RP-14-SUR	Europium-152	3.01E-03	U	4.99E-03	2.23E-02	3.76E-02	3.76E+00
RP-15-SUR	Europium-152	-7.12E-03	U	1.40E-02	2.30E-02	3.76E-02	3.76E+00
RP-16-SUR	Europium-152	-1.02E-02	U	1.36E-02	2.22E-02	3.76E-02	3.76E+00
RP-17-SUR	Europium-152	-3.73E-03	U	1.37E-02	2.23E-02	3.76E-02	3.76E+00
RP-18-SUR	Europium-152	-2.28E-03	U	1.11E-02	1.79E-02	3.76E-02	3.76E+00
RP-19-SUR	Europium-152	7.90E-03	U	1.00E-02	1.65E-02	3.76E-02	3.76E+00
RP-20-SUR	Europium-152	-1.14E-02	U	1.50E-02	2.46E-02	3.76E-02	3.76E+00
RP-21-SUR	Europium-152	-3.89E-03	U	1.35E-02	2.24E-02	3.76E-02	3.76E+00

Table 6.17 - Europium-152 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Europium-152	-7.35E-03	U	1.38E-02	2.28E-02	3.76E-02	3.76E+00
RP-23-SUR	Europium-152	-1.18E-02	U	1.61E-02	2.49E-02	3.76E-02	3.76E+00
RP-24-SUR	Europium-152	6.11E-03	U	8.70E-03	2.29E-02	3.76E-02	3.76E+00
RP-25-SUR	Europium-152	-6.93E-03	U	2.15E-02	2.41E-02	3.76E-02	3.76E+00
RP-26-SUR	Europium-152	2.89E-03	U	1.43E-02	2.36E-02	3.76E-02	3.76E+00
RP-27-SUR	Europium-152	-7.99E-03	U	2.04E-02	2.41E-02	3.76E-02	3.76E+00
RP-28-SUR	Europium-152	3.89E-03	U	4.76E-03	2.41E-02	3.76E-02	3.76E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Europium-152	-4.39E-03	U	2.45E-02	2.26E-02	3.76E-02	3.76E+00
RP-5-SUB	Europium-152	-1.10E-02	U	1.51E-02	2.41E-02	3.76E-02	3.76E+00
RP-7-SUB	Europium-152	-5.98E-03	U	1.53E-02	2.40E-02	3.76E-02	3.76E+00
RP-12-SUB	Europium-152	-4.14E-03	U	1.39E-02	2.16E-02	3.76E-02	3.76E+00
RP-13-SUB	Europium-152	-3.15E-05	U	4.02E-05	2.38E-02	3.76E-02	3.76E+00
RP-17-SUB	Europium-152	-4.79E-03	U	1.44E-02	2.38E-02	3.76E-02	3.76E+00
RP-18-SUB	Europium-152	-4.29E-03	U	2.79E-02	2.46E-02	3.76E-02	3.76E+00
RP-19-SUB	Europium-152	-1.13E-02	U	1.85E-02	2.43E-02	3.76E-02	3.76E+00
RP-20-SUB	Europium-152	-7.05E-03	U	1.50E-02	2.38E-02	3.76E-02	3.76E+00
RP-28-SUB	Europium-152	-9.89E-03	U	1.43E-02	2.29E-02	3.76E-02	3.76E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Europium-152	7.72E-04	U	1.65E-02	2.73E-02	3.76E-02	3.76E+00
BP-2-SUR	Europium-152	-1.21E-02	U	1.74E-02	2.87E-02	3.76E-02	3.76E+00
BP-3-SUR	Europium-152	-1.41E-02	U	1.75E-02	2.88E-02	3.76E-02	3.76E+00
BP-4-SUR	Europium-152	-6.70E-03	U	1.78E-02	2.94E-02	3.76E-02	3.76E+00
BP-5-SUR	Europium-152	-1.38E-02	U	1.86E-02	3.06E-02	3.76E-02	3.76E+00
BP-6-SUR	Europium-152	-1.10E-02	U	1.88E-02	3.09E-02	3.76E-02	3.76E+00
BP-7-SUR	Europium-152	-1.56E-02	U	1.85E-02	2.95E-02	3.76E-02	3.76E+00
BP-8-SUR	Europium-152	-1.81E-02	UL	1.75E-02	2.81E-02	3.76E-02	3.76E+00
BP-9-SUR	Europium-152	-8.05E-03	U	1.95E-02	3.07E-02	3.76E-02	3.76E+00
BP-10-SUR	Europium-152	-1.67E-02	U	1.86E-02	2.98E-02	3.76E-02	3.76E+00
BP-11-SUR	Europium-152	-1.08E-02	U	1.85E-02	2.94E-02	3.76E-02	3.76E+00
BP-12-SUR	Europium-152	-1.34E-02	U	1.81E-02	2.89E-02	3.76E-02	3.76E+00
BP-13-SUR	Europium-152	-1.80E-02	U	1.89E-02	3.10E-02	3.76E-02	3.76E+00
BP-14-SUR	Europium-152	-7.64E-03	U	1.77E-02	2.79E-02	3.76E-02	3.76E+00
BP-15-SUR	Europium-152	-1.23E-02	U	1.88E-02	3.01E-02	3.76E-02	3.76E+00
BP-16-SUR	Europium-152	-1.15E-02	U	1.85E-02	2.95E-02	3.76E-02	3.76E+00
BP-17-SUR	Europium-152	4.89E-03		3.83E-03	2.80E-02	3.76E-02	3.76E+00
BP-18-SUR	Europium-152	1.52E-02		1.10E-02	2.91E-02	3.76E-02	3.76E+00
BP-19-SUR	Europium-152	-1.98E-03	U	4.09E-01	2.40E-02	3.76E-02	3.76E+00
BP-20-SUR	Europium-152	1.68E-02		8.79E-03	3.08E-02	3.76E-02	3.76E+00
BP-21-SUR	Europium-152	2.00E-02		8.96E-03	3.00E-02	3.76E-02	3.76E+00
BP-22-SUR	Europium-152	-1.30E-02	U	2.32E-02	2.83E-02	3.76E-02	3.76E+00
BP-23-SUR	Europium-152	-2.55E-02	UL	2.08E-02	3.15E-02	3.76E-02	3.76E+00
BP-24-SUR	Europium-152	-8.54E-03	U	2.49E-02	3.25E-02	3.76E-02	3.76E+00
BP-25-SUR	Europium-152	-1.04E-02	U	2.31E-02	3.13E-02	3.76E-02	3.76E+00
BP-26-SUR	Europium-152	-9.09E-03	U	2.30E-02	3.06E-02	3.76E-02	3.76E+00
BP-27-SUR	Europium-152	-1.35E-02	U	2.12E-02	3.01E-02	3.76E-02	3.76E+00
BP-28-SUR	Europium-152	-3.70E-03	U	3.17E-02	3.01E-02	3.76E-02	3.76E+00
BP-29-SUR	Europium-152	-1.38E-02	U	1.83E-02	3.01E-02	3.76E-02	3.76E+00
BP-30-SUR	Europium-152	5.93E-03	U	6.29E-03	2.97E-02	3.76E-02	3.76E+00
BP-31-SUR	Europium-152	5.80E-03		4.90E-03	3.01E-02	3.76E-02	3.76E+00
BP-32-SUR	Europium-152	-1.29E-02	U	1.61E-02	2.65E-02	3.76E-02	3.76E+00
BP-33-SUR	Europium-152	-1.58E-02	U	2.05E-02	3.07E-02	3.76E-02	3.76E+00
BP-34-SUR	Europium-152	-1.47E-02	U	1.88E-02	3.08E-02	3.76E-02	3.76E+00
BP-35-SUR	Europium-152	-1.52E-02	U	1.97E-02	2.95E-02	3.76E-02	3.76E+00
BP-36-SUR	Europium-152	3.15E-03		2.75E-03	2.91E-02	3.76E-02	3.76E+00
BP-37-SUR	Europium-152	-1.00E-02	U	2.63E-02	2.83E-02	3.76E-02	3.76E+00
BP-38-SUR	Europium-152	-1.68E-02	U	1.75E-02	2.83E-02	3.76E-02	3.76E+00
BP-39-SUR	Europium-152	5.83E-03		5.53E-03	2.74E-02	3.76E-02	3.76E+00
BP-40-SUR	Europium-152	-1.77E-02	UL	1.72E-02	2.78E-02	3.76E-02	3.76E+00
BP-41-SUR	Europium-152	-1.24E-02	U	1.72E-02	2.82E-02	3.76E-02	3.76E+00
BP-42-SUR	Europium-152	-6.44E-03	U	1.71E-02	2.77E-02	3.76E-02	3.76E+00

Table 6.17 - Europium-152 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Europium-152	-1.25E-02	U	1.69E-02	2.78E-02	3.76E-02	3.76E+00
BP-44-SUR	Europium-152	-7.80E-03	U	1.76E-02	2.85E-02	3.76E-02	3.76E+00
BP-45-SUR	Europium-152	2.24E-03		1.95E-03	2.78E-02	3.76E-02	3.76E+00
BP-46-SUR	Europium-152	-1.17E-02	U	1.83E-02	2.80E-02	3.76E-02	3.76E+00
BP-47-SUR	Europium-152	-1.62E-02	UL	1.43E-02	2.34E-02	3.76E-02	3.76E+00
BP-48-SUR	Europium-152	-1.71E-02	U	1.99E-02	3.08E-02	3.76E-02	3.76E+00
BP-49-SUR	Europium-152	-1.13E-02	U	1.54E-02	2.53E-02	3.76E-02	3.76E+00
BP-50-SUR	Europium-152	-1.99E-02	UL	1.86E-02	2.91E-02	3.76E-02	3.76E+00
BP-51-SUR	Europium-152	-1.34E-02	U	1.38E-02	2.26E-02	3.76E-02	3.76E+00
BP-52-SUR	Europium-152	-1.60E-02	UL	1.38E-02	2.26E-02	3.76E-02	3.76E+00
BP-53-SUR	Europium-152	-1.89E-02	UL	1.81E-02	2.80E-02	3.76E-02	3.76E+00
BP-54-SUR	Europium-152	-9.87E-03	U	1.33E-02	2.19E-02	3.76E-02	3.76E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Europium-152	3.02E-03		2.90E-03	2.20E-02	3.76E-02	3.76E+00
BP-4-SUB	Europium-152	-1.44E-02	U	1.79E-02	2.73E-02	3.76E-02	3.76E+00
BP-5-SUB	Europium-152	-1.02E-02	U	1.81E-02	2.74E-02	3.76E-02	3.76E+00
BP-9-SUB	Europium-152	8.60E-03	U	1.12E-02	1.84E-02	3.76E-02	3.76E+00
BP-12-SUB	Europium-152	5.31E-03		3.40E-03	2.71E-02	3.76E-02	3.76E+00
BP-13-SUB	Europium-152	-1.08E-02	U	1.77E-02	2.91E-02	3.76E-02	3.76E+00
BP-14-SUB	Europium-152	-1.14E-02	U	2.11E-02	2.74E-02	3.76E-02	3.76E+00
BP-16-SUB	Europium-152	-1.02E-02	U	1.44E-02	2.36E-02	3.76E-02	3.76E+00
BP-20-SUB	Europium-152	5.41E-03	U	5.65E-03	2.72E-02	3.76E-02	3.76E+00
BP-23-SUB	Europium-152	-7.04E-03	U	1.27E-02	2.10E-02	3.76E-02	3.76E+00
BP-29-SUB	Europium-152	3.06E-02	U	1.97E-01	3.65E-01	3.76E-02	3.76E+00
BP-34-SUB	Europium-152	-2.14E-02	UL	2.03E-02	2.95E-02	3.76E-02	3.76E+00
BP-35-SUB	Europium-152	-1.67E-02	UL	1.52E-02	2.48E-02	3.76E-02	3.76E+00
BP-38-SUB	Europium-152	-1.81E-02	U	2.11E-02	2.94E-02	3.76E-02	3.76E+00
BP-43-SUB	Europium-152	1.48E-02		1.23E-02	1.69E-02	3.76E-02	3.76E+00
BP-45-SUB	Europium-152	-2.13E-02	UL	1.82E-02	2.94E-02	3.76E-02	3.76E+00
BP-46-SUB	Europium-152	-1.47E-02	U	1.79E-02	2.93E-02	3.76E-02	3.76E+00
BP-48-SUB	Europium-152	-1.48E-02	U	1.72E-02	2.79E-02	3.76E-02	3.76E+00
BP-50-SUB	Europium-152	8.47E-03		7.30E-03	2.63E-02	3.76E-02	3.76E+00
BP-51-SUB	Europium-152	-1.72E-02	U	1.84E-02	3.01E-02	3.76E-02	3.76E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.18 - Europium-154 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Europium-154	-2.43E-02	U	2.95E-02	4.84E-02	4.72E-02	4.72E+00
LR-2-SUR	Europium-154	-2.78E-02	U	2.92E-02	4.77E-02	4.72E-02	4.72E+00
LR-3-SUR	Europium-154	8.86E-03	U	1.61E-02	4.28E-02	4.72E-02	4.72E+00
LR-4-SUR	Europium-154	-2.32E-02	U	2.89E-02	4.75E-02	4.72E-02	4.72E+00
LR-5-SUR	Europium-154	-3.16E-02	UL	2.96E-02	4.84E-02	4.72E-02	4.72E+00
LR-6-SUR	Europium-154	-3.24E-02	UL	3.07E-02	5.01E-02	4.72E-02	4.72E+00
LR-7-SUR	Europium-154	-2.01E-02	U	2.86E-02	4.71E-02	4.72E-02	4.72E+00
LR-8-SUR	Europium-154	-2.73E-02	U	2.91E-02	4.76E-02	4.72E-02	4.72E+00
LR-9-SUR	Europium-154	2.65E-02		1.10E-02	4.62E-02	4.72E-02	4.72E+00
LR-10-SUR	Europium-154	-2.08E-02	U	3.33E-02	5.05E-02	4.72E-02	4.72E+00
LR-11-SUR	Europium-154	-9.30E-03	U	3.42E-02	4.73E-02	4.72E-02	4.72E+00
LR-12-SUR	Europium-154	-2.15E-02	U	2.78E-02	4.57E-02	4.72E-02	4.72E+00
LR-13-SUR	Europium-154	-2.01E-02	U	2.74E-02	4.51E-02	4.72E-02	4.72E+00
LR-14-SUR	Europium-154	-2.71E-02	U	2.75E-02	4.50E-02	4.72E-02	4.72E+00
LR-15-SUR	Europium-154	-3.41E-02	UL	3.13E-02	5.10E-02	4.72E-02	4.72E+00
LR-16-SUR	Europium-154	-8.94E-04	U	2.60E-02	4.32E-02	4.72E-02	4.72E+00
LR-17-SUR	Europium-154	1.53E-02	U	2.47E-02	4.07E-02	4.72E-02	4.72E+00
LR-18-SUR	Europium-154	-2.68E-02	U	2.93E-02	4.79E-02	4.72E-02	4.72E+00
LR-19-SUR	Europium-154	-3.12E-04	U	4.33E-04	4.55E-02	4.72E-02	4.72E+00
LR-20-SUR	Europium-154	-3.24E-02	UL	3.17E-02	5.18E-02	4.72E-02	4.72E+00
LR-21-SUR	Europium-154	-1.23E-02	U	2.90E-02	4.79E-02	4.72E-02	4.72E+00
LR-22-SUR	Europium-154	-1.98E-02	U	2.79E-02	4.59E-02	4.72E-02	4.72E+00
LR-23-SUR	Europium-154	9.74E-04	U	2.70E-02	4.50E-02	4.72E-02	4.72E+00
LR-24-SUR	Europium-154	-2.69E-02	U	2.83E-02	4.63E-02	4.72E-02	4.72E+00
LR-25-SUR	Europium-154	-2.50E-02	U	3.03E-02	4.98E-02	4.72E-02	4.72E+00
LR-26-SUR	Europium-154	-1.74E-02	U	2.95E-02	4.87E-02	4.72E-02	4.72E+00
LR-27-SUR	Europium-154	-1.51E-02	U	2.90E-02	4.67E-02	4.72E-02	4.72E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Europium-154	-2.38E-02	U	2.94E-02	4.83E-02	4.72E-02	4.72E+00
LR-4-SUB	Europium-154	-2.10E-02	U	2.62E-02	4.30E-02	4.72E-02	4.72E+00
LR-9-SUB	Europium-154	1.90E-02		1.82E-02	3.36E-02	4.72E-02	4.72E+00
LR-13-SUB	Europium-154	-2.33E-02	U	2.91E-02	4.71E-02	4.72E-02	4.72E+00
LR-15-SUB	Europium-154	-2.47E-02	U	3.72E-02	5.70E-02	4.72E-02	4.72E+00
LR-18-SUB	Europium-154	-3.11E-02	U	3.31E-02	5.13E-02	4.72E-02	4.72E+00
LR-19-SUB	Europium-154	-1.74E-02	U	3.38E-02	5.08E-02	4.72E-02	4.72E+00
LR-23-SUB	Europium-154	-2.00E-02	U	3.09E-02	5.09E-02	4.72E-02	4.72E+00
LR-24-SUB	Europium-154	-2.51E-02	U	2.93E-02	4.81E-02	4.72E-02	4.72E+00
LR-26-SUB	Europium-154	-2.64E-02	U	2.95E-02	4.83E-02	4.72E-02	4.72E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Europium-154	1.03E-02	U	1.48E-02	2.43E-02	4.72E-02	4.72E+00
RP-2-SUR	Europium-154	-1.31E-02	U	2.52E-02	4.16E-02	4.72E-02	4.72E+00
RP-3-SUR	Europium-154	-2.94E-03	U	2.41E-02	4.00E-02	4.72E-02	4.72E+00
RP-4-SUR	Europium-154	-1.74E-02	U	2.51E-02	4.13E-02	4.72E-02	4.72E+00
RP-5-SUR	Europium-154	-7.49E-03	U	2.31E-02	3.84E-02	4.72E-02	4.72E+00
RP-6-SUR	Europium-154	-1.40E-02	U	2.58E-02	4.25E-02	4.72E-02	4.72E+00
RP-7-SUR	Europium-154	-1.55E-02	U	2.61E-02	4.30E-02	4.72E-02	4.72E+00
RP-8-SUR	Europium-154	-1.42E-02	U	2.71E-02	4.48E-02	4.72E-02	4.72E+00
RP-9-SUR	Europium-154	-1.37E-02	U	2.14E-02	3.52E-02	4.72E-02	4.72E+00
RP-10-SUR	Europium-154	-1.10E-02	U	2.49E-02	4.11E-02	4.72E-02	4.72E+00
RP-11-SUR	Europium-154	-1.29E-02	U	2.60E-02	4.30E-02	4.72E-02	4.72E+00
RP-12-SUR	Europium-154	1.63E-02		1.39E-02	2.72E-02	4.72E-02	4.72E+00
RP-13-SUR	Europium-154	-1.67E-02	U	2.42E-02	3.98E-02	4.72E-02	4.72E+00
RP-14-SUR	Europium-154	-5.23E-05	U	2.34E-02	3.90E-02	4.72E-02	4.72E+00
RP-15-SUR	Europium-154	-2.24E-02	U	2.44E-02	4.00E-02	4.72E-02	4.72E+00
RP-16-SUR	Europium-154	2.05E-02		1.54E-02	3.02E-02	4.72E-02	4.72E+00
RP-17-SUR	Europium-154	-2.09E-02	U	2.42E-02	3.97E-02	4.72E-02	4.72E+00
RP-18-SUR	Europium-154	-1.56E-02	U	2.44E-02	4.02E-02	4.72E-02	4.72E+00
RP-19-SUR	Europium-154	-1.34E-02	U	2.46E-02	4.06E-02	4.72E-02	4.72E+00
RP-20-SUR	Europium-154	-1.72E-02	U	2.68E-02	4.41E-02	4.72E-02	4.72E+00
RP-21-SUR	Europium-154	-2.05E-02	U	2.50E-02	4.10E-02	4.72E-02	4.72E+00

Table 6.18 - Europium-154 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Europium-154	-9.21E-03	U	2.13E-02	3.53E-02	4.72E-02	4.72E+00
RP-23-SUR	Europium-154	-5.18E-03	U	2.40E-02	3.99E-02	4.72E-02	4.72E+00
RP-24-SUR	Europium-154	-9.90E-03	U	2.38E-02	3.93E-02	4.72E-02	4.72E+00
RP-25-SUR	Europium-154	-1.91E-02	U	2.43E-02	3.99E-02	4.72E-02	4.72E+00
RP-26-SUR	Europium-154	-1.92E-02	U	2.59E-02	4.26E-02	4.72E-02	4.72E+00
RP-27-SUR	Europium-154	-1.33E-02	U	2.51E-02	4.14E-02	4.72E-02	4.72E+00
RP-28-SUR	Europium-154	4.10E-03	U	6.49E-03	3.88E-02	4.72E-02	4.72E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Europium-154	-9.10E-03	U	2.49E-02	4.12E-02	4.72E-02	4.72E+00
RP-5-SUB	Europium-154	-2.24E-02	U	2.66E-02	4.36E-02	4.72E-02	4.72E+00
RP-7-SUB	Europium-154	1.70E-02	U	1.72E-02	3.24E-02	4.72E-02	4.72E+00
RP-12-SUB	Europium-154	-2.57E-03	U	2.13E-02	3.55E-02	4.72E-02	4.72E+00
RP-13-SUB	Europium-154	-1.34E-02	U	2.51E-02	4.14E-02	4.72E-02	4.72E+00
RP-17-SUB	Europium-154	-2.59E-02	U	2.62E-02	4.29E-02	4.72E-02	4.72E+00
RP-18-SUB	Europium-154	-1.64E-02	U	2.59E-02	4.27E-02	4.72E-02	4.72E+00
RP-19-SUB	Europium-154	-2.10E-02	U	2.51E-02	4.11E-02	4.72E-02	4.72E+00
RP-20-SUB	Europium-154	-2.52E-02	U	2.56E-02	4.19E-02	4.72E-02	4.72E+00
RP-28-SUB	Europium-154	-1.58E-02	U	2.49E-02	4.10E-02	4.72E-02	4.72E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Europium-154	-2.84E-02	UL	2.83E-02	4.62E-02	4.72E-02	4.72E+00
BP-2-SUR	Europium-154	-1.17E-02	U	2.81E-02	4.65E-02	4.72E-02	4.72E+00
BP-3-SUR	Europium-154	-3.06E-02	UL	2.97E-02	4.85E-02	4.72E-02	4.72E+00
BP-4-SUR	Europium-154	-1.92E-02	U	2.90E-02	4.78E-02	4.72E-02	4.72E+00
BP-5-SUR	Europium-154	-2.62E-02	U	2.91E-02	4.77E-02	4.72E-02	4.72E+00
BP-6-SUR	Europium-154	-3.28E-02	UL	3.02E-02	4.92E-02	4.72E-02	4.72E+00
BP-7-SUR	Europium-154	2.91E-02		1.94E-02	3.50E-02	4.72E-02	4.72E+00
BP-8-SUR	Europium-154	-2.15E-02	U	2.90E-02	4.77E-02	4.72E-02	4.72E+00
BP-9-SUR	Europium-154	-3.81E-02	UL	3.05E-02	4.95E-02	4.72E-02	4.72E+00
BP-10-SUR	Europium-154	-3.64E-02	UL	3.02E-02	4.92E-02	4.72E-02	4.72E+00
BP-11-SUR	Europium-154	-1.80E-02	U	2.88E-02	4.75E-02	4.72E-02	4.72E+00
BP-12-SUR	Europium-154	-2.89E-02	U	3.01E-02	4.92E-02	4.72E-02	4.72E+00
BP-13-SUR	Europium-154	-5.32E-04	U	2.92E-02	4.86E-02	4.72E-02	4.72E+00
BP-14-SUR	Europium-154	-1.87E-02	U	2.81E-02	4.63E-02	4.72E-02	4.72E+00
BP-15-SUR	Europium-154	-2.25E-02	U	2.94E-02	4.83E-02	4.72E-02	4.72E+00
BP-16-SUR	Europium-154	-2.24E-02	U	2.86E-02	4.70E-02	4.72E-02	4.72E+00
BP-17-SUR	Europium-154	-2.85E-02	U	2.96E-02	4.84E-02	4.72E-02	4.72E+00
BP-18-SUR	Europium-154	-3.61E-02	UL	2.92E-02	4.74E-02	4.72E-02	4.72E+00
BP-19-SUR	Europium-154	-2.93E-02	U	3.02E-02	4.94E-02	4.72E-02	4.72E+00
BP-20-SUR	Europium-154	-1.91E-02	U	2.95E-02	4.85E-02	4.72E-02	4.72E+00
BP-21-SUR	Europium-154	-2.56E-02	U	2.98E-02	4.89E-02	4.72E-02	4.72E+00
BP-22-SUR	Europium-154	8.61E-03	U	1.59E-02	4.86E-02	4.72E-02	4.72E+00
BP-23-SUR	Europium-154	-2.28E-02	U	3.08E-02	5.06E-02	4.72E-02	4.72E+00
BP-24-SUR	Europium-154	-5.29E-04	U	2.91E-02	4.85E-02	4.72E-02	4.72E+00
BP-25-SUR	Europium-154	-2.36E-02	U	3.11E-02	5.11E-02	4.72E-02	4.72E+00
BP-26-SUR	Europium-154	-2.21E-02	U	3.00E-02	4.94E-02	4.72E-02	4.72E+00
BP-27-SUR	Europium-154	-3.44E-02	UL	3.05E-02	4.97E-02	4.72E-02	4.72E+00
BP-28-SUR	Europium-154	-2.40E-02	U	2.95E-02	4.85E-02	4.72E-02	4.72E+00
BP-29-SUR	Europium-154	-2.39E-02	U	2.91E-02	4.78E-02	4.72E-02	4.72E+00
BP-30-SUR	Europium-154	-2.32E-02	U	3.21E-02	4.94E-02	4.72E-02	4.72E+00
BP-31-SUR	Europium-154	-3.40E-02	UL	3.01E-02	4.91E-02	4.72E-02	4.72E+00
BP-32-SUR	Europium-154	-1.67E-02	U	3.02E-02	4.89E-02	4.72E-02	4.72E+00
BP-33-SUR	Europium-154	-2.25E-02	U	2.99E-02	4.92E-02	4.72E-02	4.72E+00
BP-34-SUR	Europium-154	-3.57E-02	UL	3.07E-02	4.96E-02	4.72E-02	4.72E+00
BP-35-SUR	Europium-154	7.67E-03	U	1.40E-02	4.62E-02	4.72E-02	4.72E+00
BP-36-SUR	Europium-154	-2.49E-02	U	2.93E-02	4.80E-02	4.72E-02	4.72E+00
BP-37-SUR	Europium-154	-2.44E-02	U	2.93E-02	4.79E-02	4.72E-02	4.72E+00
BP-38-SUR	Europium-154	1.79E-02		1.60E-02	3.46E-02	4.72E-02	4.72E+00
BP-39-SUR	Europium-154	-1.56E-02	U	2.77E-02	4.57E-02	4.72E-02	4.72E+00
BP-40-SUR	Europium-154	-5.26E-04	U	2.55E-02	4.25E-02	4.72E-02	4.72E+00
BP-41-SUR	Europium-154	-2.02E-02	U	2.95E-02	4.86E-02	4.72E-02	4.72E+00
BP-42-SUR	Europium-154	-1.86E-02	U	2.89E-02	4.76E-02	4.72E-02	4.72E+00

Table 6.18 - Europium-154 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Europium-154	-1.97E-02	U	2.89E-02	4.76E-02	4.72E-02	4.72E+00
BP-44-SUR	Europium-154	-2.19E-02	U	2.80E-02	4.60E-02	4.72E-02	4.72E+00
BP-45-SUR	Europium-154	-3.48E-02	UL	2.94E-02	4.78E-02	4.72E-02	4.72E+00
BP-46-SUR	Europium-154	-1.92E-02	U	2.75E-02	4.52E-02	4.72E-02	4.72E+00
BP-47-SUR	Europium-154	-4.16E-02	RU	2.67E-02	4.32E-02	4.72E-02	4.72E+00
BP-48-SUR	Europium-154	-1.91E-02	U	3.13E-02	5.17E-02	4.72E-02	4.72E+00
BP-49-SUR	Europium-154	-3.01E-02	UL	2.45E-02	3.99E-02	4.72E-02	4.72E+00
BP-50-SUR	Europium-154	-1.76E-02	U	2.85E-02	4.70E-02	4.72E-02	4.72E+00
BP-51-SUR	Europium-154	-3.37E-02	UL	2.51E-02	4.07E-02	4.72E-02	4.72E+00
BP-52-SUR	Europium-154	-1.38E-02	U	2.40E-02	3.96E-02	4.72E-02	4.72E+00
BP-53-SUR	Europium-154	-1.45E-02	U	2.98E-02	4.93E-02	4.72E-02	4.72E+00
BP-54-SUR	Europium-154	-8.51E-03	U	1.98E-02	3.28E-02	4.72E-02	4.72E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Europium-154	-2.43E-02	U	2.45E-02	4.00E-02	4.72E-02	4.72E+00
BP-4-SUB	Europium-154	-2.49E-02	U	2.88E-02	4.72E-02	4.72E-02	4.72E+00
BP-5-SUB	Europium-154	6.97E-02		2.41E-02	3.63E-02	4.72E-02	4.72E+00
BP-9-SUB	Europium-154	-3.01E-02	UL	2.89E-02	3.83E-02	4.72E-02	4.72E+00
BP-12-SUB	Europium-154	-2.17E-02	U	2.71E-02	4.45E-02	4.72E-02	4.72E+00
BP-13-SUB	Europium-154	-1.80E-02	U	2.77E-02	4.56E-02	4.72E-02	4.72E+00
BP-14-SUB	Europium-154	-2.01E-02	U	2.88E-02	4.74E-02	4.72E-02	4.72E+00
BP-16-SUB	Europium-154	-1.26E-02	U	3.68E-02	3.62E-02	4.72E-02	4.72E+00
BP-20-SUB	Europium-154	-1.79E-02	U	2.51E-02	4.13E-02	4.72E-02	4.72E+00
BP-23-SUB	Europium-154	-2.13E-02	U	3.21E-02	3.85E-02	4.72E-02	4.72E+00
BP-29-SUB	Europium-154	1.18E-03	U	4.45E-01	8.70E-01	4.72E-02	4.72E+00
BP-34-SUB	Europium-154	-2.66E-02	U	2.93E-02	4.80E-02	4.72E-02	4.72E+00
BP-35-SUB	Europium-154	-3.33E-02	UL	3.00E-02	4.02E-02	4.72E-02	4.72E+00
BP-38-SUB	Europium-154	-3.06E-02	U	3.18E-02	5.19E-02	4.72E-02	4.72E+00
BP-43-SUB	Europium-154	1.90E-02		1.71E-02	2.78E-02	4.72E-02	4.72E+00
BP-45-SUB	Europium-154	-3.54E-02	UL	2.96E-02	4.80E-02	4.72E-02	4.72E+00
BP-46-SUB	Europium-154	-2.48E-02	U	3.08E-02	5.06E-02	4.72E-02	4.72E+00
BP-48-SUB	Europium-154	-5.68E-04	U	2.64E-02	4.40E-02	4.72E-02	4.72E+00
BP-50-SUB	Europium-154	-1.84E-02	U	2.74E-02	4.51E-02	4.72E-02	4.72E+00
BP-51-SUB	Europium-154	-2.15E-02	U	2.81E-02	4.62E-02	4.72E-02	4.72E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.19 - Europium-155 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Europium-155	7.44E-02	KS	3.42E-02	4.30E-02	3.74E+00	3.74E+02
LR-2-SUR	Europium-155	8.84E-02	KS	3.25E-02	4.09E-02	3.74E+00	3.74E+02
LR-3-SUR	Europium-155	9.28E-02	KS	3.97E-02	4.71E-02	3.74E+00	3.74E+02
LR-4-SUR	Europium-155	8.90E-02	KS	3.66E-02	4.43E-02	3.74E+00	3.74E+02
LR-5-SUR	Europium-155	7.95E-02	KS	4.31E-02	4.99E-02	3.74E+00	3.74E+02
LR-6-SUR	Europium-155	7.15E-02	KS	3.04E-02	4.76E-02	3.74E+00	3.74E+02
LR-7-SUR	Europium-155	6.22E-02	KS	3.59E-02	4.46E-02	3.74E+00	3.74E+02
LR-8-SUR	Europium-155	1.13E-01	KS	4.27E-02	4.78E-02	3.74E+00	3.74E+02
LR-9-SUR	Europium-155	8.50E-02	KS	4.51E-02	5.10E-02	3.74E+00	3.74E+02
LR-10-SUR	Europium-155	1.07E-01	KS	3.83E-02	4.55E-02	3.74E+00	3.74E+02
LR-11-SUR	Europium-155	7.32E-02	KS	4.34E-02	5.05E-02	3.74E+00	3.74E+02
LR-12-SUR	Europium-155	4.91E-02	KS	3.53E-02	5.71E-02	3.74E+00	3.74E+02
LR-13-SUR	Europium-155	7.21E-02	KS	3.47E-02	4.27E-02	3.74E+00	3.74E+02
LR-14-SUR	Europium-155	4.91E-02	KS	3.36E-02	5.42E-02	3.74E+00	3.74E+02
LR-15-SUR	Europium-155	1.08E-01	KS	4.27E-02	4.91E-02	3.74E+00	3.74E+02
LR-16-SUR	Europium-155	1.15E-01	KS	4.45E-02	4.89E-02	3.74E+00	3.74E+02
LR-17-SUR	Europium-155	9.38E-02	KS	3.99E-02	4.53E-02	3.74E+00	3.74E+02
LR-18-SUR	Europium-155	1.16E-01	KS	4.42E-02	4.95E-02	3.74E+00	3.74E+02
LR-19-SUR	Europium-155	1.13E-01	KS	4.60E-02	5.20E-02	3.74E+00	3.74E+02
LR-20-SUR	Europium-155	1.10E-01	KS	4.56E-02	5.15E-02	3.74E+00	3.74E+02
LR-21-SUR	Europium-155	1.16E-01	KS	4.47E-02	5.01E-02	3.74E+00	3.74E+02
LR-22-SUR	Europium-155	1.01E-01	KS	4.23E-02	4.90E-02	3.74E+00	3.74E+02
LR-23-SUR	Europium-155	1.06E-01	KS	4.58E-02	5.10E-02	3.74E+00	3.74E+02
LR-24-SUR	Europium-155	1.07E-01	KS	3.91E-02	4.56E-02	3.74E+00	3.74E+02
LR-25-SUR	Europium-155	9.55E-02	KS	4.19E-02	4.87E-02	3.74E+00	3.74E+02
LR-26-SUR	Europium-155	9.46E-02	KS	4.66E-02	5.24E-02	3.74E+00	3.74E+02
LR-27-SUR	Europium-155	8.45E-02	KS	3.23E-02	4.08E-02	3.74E+00	3.74E+02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Europium-155	8.74E-02	KS	4.22E-02	4.95E-02	3.74E+00	3.74E+02
LR-4-SUB	Europium-155	9.00E-02	KS	3.41E-02	4.20E-02	3.74E+00	3.74E+02
LR-9-SUB	Europium-155	1.21E-01	KS	4.02E-02	4.61E-02	3.74E+00	3.74E+02
LR-13-SUB	Europium-155	9.34E-02	KS	3.95E-02	4.69E-02	3.74E+00	3.74E+02
LR-15-SUB	Europium-155	1.32E-01	KS	5.48E-02	5.95E-02	3.74E+00	3.74E+02
LR-18-SUB	Europium-155	9.30E-02	KS	4.31E-02	5.03E-02	3.74E+00	3.74E+02
LR-19-SUB	Europium-155	1.17E-01	KS	4.92E-02	5.45E-02	3.74E+00	3.74E+02
LR-23-SUB	Europium-155	1.24E-01	KS	5.42E-02	5.92E-02	3.74E+00	3.74E+02
LR-24-SUB	Europium-155	1.11E-01	KS	4.86E-02	5.31E-02	3.74E+00	3.74E+02
LR-26-SUB	Europium-155	1.26E-01	KS	4.56E-02	5.07E-02	3.74E+00	3.74E+02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Europium-155	7.32E-02	KS	3.78E-02	4.27E-02	3.74E+00	3.74E+02
RP-2-SUR	Europium-155	1.01E-01	KS	3.72E-02	4.15E-02	3.74E+00	3.74E+02
RP-3-SUR	Europium-155	6.04E-02	KS	3.69E-02	4.29E-02	3.74E+00	3.74E+02
RP-4-SUR	Europium-155	6.07E-02	KS	3.07E-02	3.79E-02	3.74E+00	3.74E+02
RP-5-SUR	Europium-155	7.57E-02	KS	3.65E-02	4.19E-02	3.74E+00	3.74E+02
RP-6-SUR	Europium-155	6.87E-02	KS	3.89E-02	4.42E-02	3.74E+00	3.74E+02
RP-7-SUR	Europium-155	1.01E-01	KS	4.01E-02	4.41E-02	3.74E+00	3.74E+02
RP-8-SUR	Europium-155	8.03E-02	KS	4.39E-02	4.86E-02	3.74E+00	3.74E+02
RP-9-SUR	Europium-155	7.26E-02	KS	3.34E-02	4.03E-02	3.74E+00	3.74E+02
RP-10-SUR	Europium-155	6.60E-02	KS	2.85E-02	3.66E-02	3.74E+00	3.74E+02
RP-11-SUR	Europium-155	8.24E-02	KS	3.69E-02	4.29E-02	3.74E+00	3.74E+02
RP-12-SUR	Europium-155	6.20E-02	KS	3.38E-02	4.00E-02	3.74E+00	3.74E+02
RP-13-SUR	Europium-155	7.55E-02	KS	3.19E-02	3.79E-02	3.74E+00	3.74E+02
RP-14-SUR	Europium-155	5.71E-02	KS	2.87E-02	3.63E-02	3.74E+00	3.74E+02
RP-15-SUR	Europium-155	7.48E-02	KS	2.94E-02	3.63E-02	3.74E+00	3.74E+02
RP-16-SUR	Europium-155	7.05E-02	KS	3.54E-02	4.08E-02	3.74E+00	3.74E+02
RP-17-SUR	Europium-155	6.14E-02	KS	3.26E-02	3.93E-02	3.74E+00	3.74E+02
RP-18-SUR	Europium-155	7.76E-02	KS	3.36E-02	3.99E-02	3.74E+00	3.74E+02
RP-19-SUR	Europium-155	8.74E-02	KS	3.46E-02	4.07E-02	3.74E+00	3.74E+02
RP-20-SUR	Europium-155	9.49E-02	KS	4.06E-02	4.61E-02	3.74E+00	3.74E+02
RP-21-SUR	Europium-155	7.45E-02	KS	3.08E-02	3.73E-02	3.74E+00	3.74E+02

Table 6.19 - Europium-155 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Europium-155	6.47E-02	KS	3.09E-02	3.80E-02	3.74E+00	3.74E+02
RP-23-SUR	Europium-155	8.84E-02	KS	4.21E-02	4.72E-02	3.74E+00	3.74E+02
RP-24-SUR	Europium-155	7.46E-02	KS	3.34E-02	3.98E-02	3.74E+00	3.74E+02
RP-25-SUR	Europium-155	7.52E-02	KS	3.08E-02	3.83E-02	3.74E+00	3.74E+02
RP-26-SUR	Europium-155	7.16E-02	KS	3.59E-02	4.22E-02	3.74E+00	3.74E+02
RP-27-SUR	Europium-155	1.12E-01	KS	3.96E-02	4.38E-02	3.74E+00	3.74E+02
RP-28-SUR	Europium-155	3.65E-02	KS	3.26E-02	5.32E-02	3.74E+00	3.74E+02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Europium-155	6.56E-02	KS	3.45E-02	4.07E-02	3.74E+00	3.74E+02
RP-5-SUB	Europium-155	9.32E-02	KS	3.91E-02	4.43E-02	3.74E+00	3.74E+02
RP-7-SUB	Europium-155	6.28E-02	KS	3.44E-02	4.16E-02	3.74E+00	3.74E+02
RP-12-SUB	Europium-155	6.67E-02	KS	3.18E-02	3.82E-02	3.74E+00	3.74E+02
RP-13-SUB	Europium-155	5.75E-02	KS	3.43E-02	4.17E-02	3.74E+00	3.74E+02
RP-17-SUB	Europium-155	8.28E-02	KS	3.87E-02	4.43E-02	3.74E+00	3.74E+02
RP-18-SUB	Europium-155	7.25E-02	KS	4.16E-02	4.72E-02	3.74E+00	3.74E+02
RP-19-SUB	Europium-155	8.70E-02	KS	4.25E-02	4.68E-02	3.74E+00	3.74E+02
RP-20-SUB	Europium-155	1.11E-01	KS	3.57E-02	4.07E-02	3.74E+00	3.74E+02
RP-28-SUB	Europium-155	8.91E-02	KS	4.25E-02	4.68E-02	3.74E+00	3.74E+02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Europium-155	1.12E-01	KS	3.96E-02	4.71E-02	3.74E+00	3.74E+02
BP-2-SUR	Europium-155	1.38E-01	KS	5.20E-02	5.58E-02	3.74E+00	3.74E+02
BP-3-SUR	Europium-155	1.29E-01	KS	4.55E-02	5.16E-02	3.74E+00	3.74E+02
BP-4-SUR	Europium-155	1.11E-01	KS	4.65E-02	5.38E-02	3.74E+00	3.74E+02
BP-5-SUR	Europium-155	1.34E-01	KS	4.52E-02	5.20E-02	3.74E+00	3.74E+02
BP-6-SUR	Europium-155	1.54E-01	KS	5.04E-02	5.53E-02	3.74E+00	3.74E+02
BP-7-SUR	Europium-155	1.38E-01	KS	4.68E-02	5.40E-02	3.74E+00	3.74E+02
BP-8-SUR	Europium-155	1.39E-01	KS	4.77E-02	5.38E-02	3.74E+00	3.74E+02
BP-9-SUR	Europium-155	1.26E-01	KS	5.39E-02	5.88E-02	3.74E+00	3.74E+02
BP-10-SUR	Europium-155	1.71E-01	KS	5.29E-02	5.63E-02	3.74E+00	3.74E+02
BP-11-SUR	Europium-155	1.30E-01	KS	4.67E-02	5.31E-02	3.74E+00	3.74E+02
BP-12-SUR	Europium-155	1.26E-01	KS	4.40E-02	5.10E-02	3.74E+00	3.74E+02
BP-13-SUR	Europium-155	1.30E-01	KS	5.17E-02	6.18E-02	3.74E+00	3.74E+02
BP-14-SUR	Europium-155	1.50E-01	KS	4.68E-02	5.08E-02	3.74E+00	3.74E+02
BP-15-SUR	Europium-155	1.26E-01	KS	4.77E-02	5.34E-02	3.74E+00	3.74E+02
BP-16-SUR	Europium-155	1.39E-01	KS	4.80E-02	5.31E-02	3.74E+00	3.74E+02
BP-17-SUR	Europium-155	1.22E-01	KS	4.98E-02	5.52E-02	3.74E+00	3.74E+02
BP-18-SUR	Europium-155	1.16E-01	KS	4.96E-02	5.52E-02	3.74E+00	3.74E+02
BP-19-SUR	Europium-155	1.22E-01	KS	5.28E-02	6.21E-02	3.74E+00	3.74E+02
BP-20-SUR	Europium-155	1.58E-01	KS	5.30E-02	5.72E-02	3.74E+00	3.74E+02
BP-21-SUR	Europium-155	1.27E-01	KS	4.95E-02	5.57E-02	3.74E+00	3.74E+02
BP-22-SUR	Europium-155	1.30E-01	KS	5.36E-02	6.28E-02	3.74E+00	3.74E+02
BP-23-SUR	Europium-155	1.53E-01	KS	5.16E-02	6.06E-02	3.74E+00	3.74E+02
BP-24-SUR	Europium-155	1.38E-01	KS	5.72E-02	6.56E-02	3.74E+00	3.74E+02
BP-25-SUR	Europium-155	1.37E-01	KS	5.31E-02	6.19E-02	3.74E+00	3.74E+02
BP-26-SUR	Europium-155	1.29E-01	KS	4.88E-02	5.80E-02	3.74E+00	3.74E+02
BP-27-SUR	Europium-155	1.23E-01	KS	5.01E-02	6.00E-02	3.74E+00	3.74E+02
BP-28-SUR	Europium-155	1.10E-01	KS	4.52E-02	5.54E-02	3.74E+00	3.74E+02
BP-29-SUR	Europium-155	1.01E-01	KS	5.06E-02	6.00E-02	3.74E+00	3.74E+02
BP-30-SUR	Europium-155	1.31E-01	KS	4.75E-02	5.28E-02	3.74E+00	3.74E+02
BP-31-SUR	Europium-155	1.33E-01	KS	4.98E-02	5.92E-02	3.74E+00	3.74E+02
BP-32-SUR	Europium-155	1.36E-01	KS	5.63E-02	6.46E-02	3.74E+00	3.74E+02
BP-33-SUR	Europium-155	1.43E-01	KS	4.89E-02	5.40E-02	3.74E+00	3.74E+02
BP-34-SUR	Europium-155	1.21E-01	KS	5.42E-02	6.38E-02	3.74E+00	3.74E+02
BP-35-SUR	Europium-155	1.13E-01	KS	4.64E-02	5.24E-02	3.74E+00	3.74E+02
BP-36-SUR	Europium-155	1.16E-01	KS	5.03E-02	5.49E-02	3.74E+00	3.74E+02
BP-37-SUR	Europium-155	9.95E-02	KS	4.51E-02	5.14E-02	3.74E+00	3.74E+02
BP-38-SUR	Europium-155	7.06E-02	KS	3.86E-02	6.16E-02	3.74E+00	3.74E+02
BP-39-SUR	Europium-155	1.07E-01	KS	4.33E-02	4.89E-02	3.74E+00	3.74E+02
BP-40-SUR	Europium-155	1.06E-01	KS	4.03E-02	4.71E-02	3.74E+00	3.74E+02
BP-41-SUR	Europium-155	1.04E-01	KS	4.79E-02	5.78E-02	3.74E+00	3.74E+02
BP-42-SUR	Europium-155	1.03E-01	KS	4.09E-02	4.81E-02	3.74E+00	3.74E+02

Table 6.19 - Europium-155 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Europium-155	1.24E-01	KS	5.12E-02	5.99E-02	3.74E+00	3.74E+02
BP-44-SUR	Europium-155	1.05E-01	KS	3.33E-02	4.99E-02	3.74E+00	3.74E+02
BP-45-SUR	Europium-155	1.48E-01	KS	5.35E-02	6.06E-02	3.74E+00	3.74E+02
BP-46-SUR	Europium-155	1.55E-01	KS	4.67E-02	5.03E-02	3.74E+00	3.74E+02
BP-47-SUR	Europium-155	1.13E-01	KS	4.78E-02	5.49E-02	3.74E+00	3.74E+02
BP-48-SUR	Europium-155	1.40E-01	KS	5.48E-02	5.91E-02	3.74E+00	3.74E+02
BP-49-SUR	Europium-155	1.29E-01	KS	4.67E-02	5.29E-02	3.74E+00	3.74E+02
BP-50-SUR	Europium-155	1.16E-01	KS	4.63E-02	5.22E-02	3.74E+00	3.74E+02
BP-51-SUR	Europium-155	1.43E-01	KS	4.53E-02	5.06E-02	3.74E+00	3.74E+02
BP-52-SUR	Europium-155	9.27E-02	KS	4.26E-02	4.92E-02	3.74E+00	3.74E+02
BP-53-SUR	Europium-155	8.86E-02	KS	4.60E-02	5.19E-02	3.74E+00	3.74E+02
BP-54-SUR	Europium-155	8.49E-02	KS	3.93E-02	4.55E-02	3.74E+00	3.74E+02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Europium-155	1.19E-01	KS	3.77E-02	4.50E-02	3.74E+00	3.74E+02
BP-4-SUB	Europium-155	1.14E-01	KS	4.20E-02	4.77E-02	3.74E+00	3.74E+02
BP-5-SUB	Europium-155	1.12E-01	KS	4.52E-02	4.99E-02	3.74E+00	3.74E+02
BP-9-SUB	Europium-155	1.39E-01	KS	3.90E-02	4.58E-02	3.74E+00	3.74E+02
BP-12-SUB	Europium-155	1.04E-01	KS	4.04E-02	4.75E-02	3.74E+00	3.74E+02
BP-13-SUB	Europium-155	9.23E-02	KS	4.82E-02	5.86E-02	3.74E+00	3.74E+02
BP-14-SUB	Europium-155	9.39E-02	KS	3.71E-02	4.45E-02	3.74E+00	3.74E+02
BP-16-SUB	Europium-155	1.23E-01	KS	4.07E-02	4.77E-02	3.74E+00	3.74E+02
BP-20-SUB	Europium-155	9.84E-02	KS	4.23E-02	4.80E-02	3.74E+00	3.74E+02
BP-23-SUB	Europium-155	1.22E-01	KS	3.88E-02	4.53E-02	3.74E+00	3.74E+02
BP-29-SUB	Europium-155	3.65E-01	US	4.97E-01	8.21E-01	3.74E+00	3.74E+02
BP-34-SUB	Europium-155	1.61E-01	KS	4.78E-02	5.24E-02	3.74E+00	3.74E+02
BP-35-SUB	Europium-155	1.46E-02	US	2.90E-02	4.77E-02	3.74E+00	3.74E+02
BP-38-SUB	Europium-155	5.37E-02	KS	3.91E-02	6.33E-02	3.74E+00	3.74E+02
BP-43-SUB	Europium-155	4.68E-02	KS	4.10E-02	6.70E-02	3.74E+00	3.74E+02
BP-45-SUB	Europium-155	1.34E-01	KS	4.88E-02	5.32E-02	3.74E+00	3.74E+02
BP-46-SUB	Europium-155	1.40E-01	KS	5.68E-02	6.64E-02	3.74E+00	3.74E+02
BP-48-SUB	Europium-155	7.99E-02	KS	3.84E-02	6.07E-02	3.74E+00	3.74E+02
BP-50-SUB	Europium-155	7.33E-02	KS	4.79E-02	5.74E-02	3.74E+00	3.74E+02
BP-51-SUB	Europium-155	1.37E-01	KS	4.92E-02	5.46E-02	3.74E+00	3.74E+02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.20 - Holmium-166m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Holmium-166m	2.39E-02	SK	1.04E-02	1.30E-02	1.10E-02	1.10E+00
LR-2-SUR	Holmium-166m	2.12E-03	USK	2.30E-03	1.33E-02	1.10E-02	1.10E+00
LR-3-SUR	Holmium-166m	1.13E-02	SK	9.35E-03	1.04E-02	1.10E-02	1.10E+00
LR-4-SUR	Holmium-166m	1.61E-02	SK	5.16E-03	1.27E-02	1.10E-02	1.10E+00
LR-5-SUR	Holmium-166m	1.01E-02	SK	8.86E-03	1.06E-02	1.10E-02	1.10E+00
LR-6-SUR	Holmium-166m	3.18E-02	SK	6.95E-03	1.32E-02	1.10E-02	1.10E+00
LR-7-SUR	Holmium-166m	3.52E-03	USK	3.72E-03	1.29E-02	1.10E-02	1.10E+00
LR-8-SUR	Holmium-166m	6.30E-03	USK	6.31E-03	1.17E-02	1.10E-02	1.10E+00
LR-9-SUR	Holmium-166m	1.98E-03	USK	6.96E-03	1.16E-02	1.10E-02	1.10E+00
LR-10-SUR	Holmium-166m	8.05E-03	USK	1.04E-02	1.35E-02	1.10E-02	1.10E+00
LR-11-SUR	Holmium-166m	-2.62E-06	USK	3.17E-06	1.37E-02	1.10E-02	1.10E+00
LR-12-SUR	Holmium-166m	3.00E-02	SK	6.49E-03	1.28E-02	1.10E-02	1.10E+00
LR-13-SUR	Holmium-166m	-2.18E-03	USK	7.68E-03	1.27E-02	1.10E-02	1.10E+00
LR-14-SUR	Holmium-166m	7.34E-04	USK	7.35E-03	1.22E-02	1.10E-02	1.10E+00
LR-15-SUR	Holmium-166m	6.36E-03	SK	4.49E-03	1.31E-02	1.10E-02	1.10E+00
LR-16-SUR	Holmium-166m	2.27E-03	USK	2.94E-03	1.22E-02	1.10E-02	1.10E+00
LR-17-SUR	Holmium-166m	2.19E-03	USK	3.64E-03	1.17E-02	1.10E-02	1.10E+00
LR-18-SUR	Holmium-166m	1.30E-02	SK	9.84E-03	1.32E-02	1.10E-02	1.10E+00
LR-19-SUR	Holmium-166m	-3.23E-03	USK	1.86E-02	1.39E-02	1.10E-02	1.10E+00
LR-20-SUR	Holmium-166m	3.52E-03	USK	4.00E-03	1.40E-02	1.10E-02	1.10E+00
LR-21-SUR	Holmium-166m	3.17E-03	USK	5.58E-03	1.37E-02	1.10E-02	1.10E+00
LR-22-SUR	Holmium-166m	-2.50E-03	USK	2.39E-02	1.36E-02	1.10E-02	1.10E+00
LR-23-SUR	Holmium-166m	1.42E-03	USK	2.10E-03	1.32E-02	1.10E-02	1.10E+00
LR-24-SUR	Holmium-166m	1.31E-02	SK	4.74E-03	1.30E-02	1.10E-02	1.10E+00
LR-25-SUR	Holmium-166m	3.14E-03	USK	3.69E-03	1.37E-02	1.10E-02	1.10E+00
LR-26-SUR	Holmium-166m	5.67E-04	USK	1.11E-03	1.26E-02	1.10E-02	1.10E+00
LR-27-SUR	Holmium-166m	3.41E-02	SK	6.62E-03	1.30E-02	1.10E-02	1.10E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Holmium-166m	3.85E-02	SK	7.07E-03	1.30E-02	1.10E-02	1.10E+00
LR-4-SUB	Holmium-166m	-6.61E-04	USK	9.92E-04	1.23E-02	1.10E-02	1.10E+00
LR-9-SUB	Holmium-166m	2.78E-03	USK	4.95E-03	1.23E-02	1.10E-02	1.10E+00
LR-13-SUB	Holmium-166m	8.46E-03	USK	8.81E-03	1.18E-02	1.10E-02	1.10E+00
LR-15-SUB	Holmium-166m	-4.54E-04	USK	9.06E-03	1.51E-02	1.10E-02	1.10E+00
LR-18-SUB	Holmium-166m	1.72E-03	USK	2.60E-03	1.40E-02	1.10E-02	1.10E+00
LR-19-SUB	Holmium-166m	1.41E-02	SK	4.78E-03	1.40E-02	1.10E-02	1.10E+00
LR-23-SUB	Holmium-166m	1.94E-02	SK	5.10E-03	1.37E-02	1.10E-02	1.10E+00
LR-24-SUB	Holmium-166m	8.38E-03	SK	7.90E-03	1.28E-02	1.10E-02	1.10E+00
LR-26-SUB	Holmium-166m	5.41E-03	USK	6.66E-03	1.33E-02	1.10E-02	1.10E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Holmium-166m	2.12E-03	USK	3.16E-03	1.12E-02	1.10E-02	1.10E+00
RP-2-SUR	Holmium-166m	-2.97E-03	USK	6.92E-03	1.15E-02	1.10E-02	1.10E+00
RP-3-SUR	Holmium-166m	3.55E-03	USK	6.27E-03	1.04E-02	1.10E-02	1.10E+00
RP-4-SUR	Holmium-166m	1.48E-02	SK	8.61E-03	1.11E-02	1.10E-02	1.10E+00
RP-5-SUR	Holmium-166m	-1.26E-03	USK	6.69E-03	1.11E-02	1.10E-02	1.10E+00
RP-6-SUR	Holmium-166m	7.94E-03	USK	8.44E-03	1.11E-02	1.10E-02	1.10E+00
RP-7-SUR	Holmium-166m	2.04E-03	USK	3.61E-03	8.12E-03	1.10E-02	1.10E+00
RP-8-SUR	Holmium-166m	1.24E-02	SK	4.51E-03	1.00E-02	1.10E-02	1.10E+00
RP-9-SUR	Holmium-166m	3.50E-03	USK	4.55E-03	8.96E-03	1.10E-02	1.10E+00
RP-10-SUR	Holmium-166m	5.48E-03	USK	7.35E-03	1.12E-02	1.10E-02	1.10E+00
RP-11-SUR	Holmium-166m	-1.70E-03	USK	9.76E-03	1.14E-02	1.10E-02	1.10E+00
RP-12-SUR	Holmium-166m	2.78E-02	SK	5.52E-03	8.86E-03	1.10E-02	1.10E+00
RP-13-SUR	Holmium-166m	3.03E-02	SK	5.97E-03	1.03E-02	1.10E-02	1.10E+00
RP-14-SUR	Holmium-166m	4.17E-03	USK	6.11E-03	9.75E-03	1.10E-02	1.10E+00
RP-15-SUR	Holmium-166m	-1.96E-03	USK	6.56E-03	1.09E-02	1.10E-02	1.10E+00
RP-16-SUR	Holmium-166m	-6.70E-05	USK	5.70E-03	9.50E-03	1.10E-02	1.10E+00
RP-17-SUR	Holmium-166m	-3.05E-03	USK	6.47E-03	1.07E-02	1.10E-02	1.10E+00
RP-18-SUR	Holmium-166m	5.74E-03	USK	6.06E-03	1.10E-02	1.10E-02	1.10E+00
RP-19-SUR	Holmium-166m	-3.40E-03	USK	6.91E-03	1.13E-02	1.10E-02	1.10E+00
RP-20-SUR	Holmium-166m	3.82E-03	USK	3.90E-03	9.53E-03	1.10E-02	1.10E+00
RP-21-SUR	Holmium-166m	6.00E-04	USK	6.42E-03	1.07E-02	1.10E-02	1.10E+00

Table 6.20 - Holmium-166m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Holmium-166m	9.27E-03	SK	4.89E-03	1.09E-02	1.10E-02	1.10E+00
RP-23-SUR	Holmium-166m	1.18E-02	SK	5.13E-03	1.16E-02	1.10E-02	1.10E+00
RP-24-SUR	Holmium-166m	3.33E-03	USK	4.27E-03	1.09E-02	1.10E-02	1.10E+00
RP-25-SUR	Holmium-166m	2.88E-03	USK	4.96E-03	1.15E-02	1.10E-02	1.10E+00
RP-26-SUR	Holmium-166m	1.41E-03	USK	6.81E-03	1.13E-02	1.10E-02	1.10E+00
RP-27-SUR	Holmium-166m	3.75E-03	USK	5.15E-03	1.17E-02	1.10E-02	1.10E+00
RP-28-SUR	Holmium-166m	2.01E-03	USK	3.58E-03	1.19E-02	1.10E-02	1.10E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Holmium-166m	-2.58E-03	USK	7.16E-03	1.09E-02	1.10E-02	1.10E+00
RP-5-SUB	Holmium-166m	-1.38E-03	USK	1.53E-03	1.19E-02	1.10E-02	1.10E+00
RP-7-SUB	Holmium-166m	4.61E-03	USK	5.70E-03	1.11E-02	1.10E-02	1.10E+00
RP-12-SUB	Holmium-166m	4.99E-03	SK	2.46E-03	1.03E-02	1.10E-02	1.10E+00
RP-13-SUB	Holmium-166m	4.12E-03	USK	4.41E-03	1.13E-02	1.10E-02	1.10E+00
RP-17-SUB	Holmium-166m	2.94E-02	SK	5.66E-03	1.16E-02	1.10E-02	1.10E+00
RP-18-SUB	Holmium-166m	3.19E-02	SK	6.07E-03	1.18E-02	1.10E-02	1.10E+00
RP-19-SUB	Holmium-166m	9.72E-03	SK	7.05E-03	8.94E-03	1.10E-02	1.10E+00
RP-20-SUB	Holmium-166m	3.51E-03	USK	6.99E-03	1.12E-02	1.10E-02	1.10E+00
RP-28-SUB	Holmium-166m	1.29E-02	SK	8.26E-03	1.03E-02	1.10E-02	1.10E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Holmium-166m	4.46E-03	SK	4.09E-03	1.35E-02	1.10E-02	1.10E+00
BP-2-SUR	Holmium-166m	2.50E-02	SK	6.96E-03	1.39E-02	1.10E-02	1.10E+00
BP-3-SUR	Holmium-166m	5.14E-03	USK	5.24E-03	1.36E-02	1.10E-02	1.10E+00
BP-4-SUR	Holmium-166m	-4.57E-03	USK	8.37E-03	1.38E-02	1.10E-02	1.10E+00
BP-5-SUR	Holmium-166m	-9.87E-06	ULSK	9.17E-06	1.40E-02	1.10E-02	1.10E+00
BP-6-SUR	Holmium-166m	3.56E-03	USK	5.39E-03	1.43E-02	1.10E-02	1.10E+00
BP-7-SUR	Holmium-166m	6.10E-03	USK	6.89E-03	1.50E-02	1.10E-02	1.10E+00
BP-8-SUR	Holmium-166m	9.28E-03	USK	1.08E-02	1.35E-02	1.10E-02	1.10E+00
BP-9-SUR	Holmium-166m	1.33E-02	SK	6.29E-03	1.43E-02	1.10E-02	1.10E+00
BP-10-SUR	Holmium-166m	5.23E-03	SK	4.84E-03	1.44E-02	1.10E-02	1.10E+00
BP-11-SUR	Holmium-166m	1.65E-03	USK	2.47E-03	1.41E-02	1.10E-02	1.10E+00
BP-12-SUR	Holmium-166m	1.97E-03	SK	1.92E-03	1.44E-02	1.10E-02	1.10E+00
BP-13-SUR	Holmium-166m	7.17E-03	USK	8.50E-03	1.52E-02	1.10E-02	1.10E+00
BP-14-SUR	Holmium-166m	3.03E-03	USK	3.45E-03	1.18E-02	1.10E-02	1.10E+00
BP-15-SUR	Holmium-166m	1.35E-03	USK	2.25E-03	1.40E-02	1.10E-02	1.10E+00
BP-16-SUR	Holmium-166m	5.89E-03	SK	5.65E-03	1.39E-02	1.10E-02	1.10E+00
BP-17-SUR	Holmium-166m	1.75E-02	SK	5.39E-03	1.39E-02	1.10E-02	1.10E+00
BP-18-SUR	Holmium-166m	6.73E-03	USK	7.22E-03	1.38E-02	1.10E-02	1.10E+00
BP-19-SUR	Holmium-166m	3.74E-03	USK	6.83E-03	1.43E-02	1.10E-02	1.10E+00
BP-20-SUR	Holmium-166m	-5.25E-03	USK	8.74E-03	1.44E-02	1.10E-02	1.10E+00
BP-21-SUR	Holmium-166m	9.46E-03	SK	9.44E-03	1.40E-02	1.10E-02	1.10E+00
BP-22-SUR	Holmium-166m	1.75E-03	USK	3.26E-03	1.48E-02	1.10E-02	1.10E+00
BP-23-SUR	Holmium-166m	7.68E-03	SK	5.72E-03	1.50E-02	1.10E-02	1.10E+00
BP-24-SUR	Holmium-166m	8.25E-03	SK	6.44E-03	1.51E-02	1.10E-02	1.10E+00
BP-25-SUR	Holmium-166m	8.35E-03	SK	7.35E-03	1.37E-02	1.10E-02	1.10E+00
BP-26-SUR	Holmium-166m	-1.87E-03	USK	1.34E-02	1.43E-02	1.10E-02	1.10E+00
BP-27-SUR	Holmium-166m	2.15E-03	USK	3.29E-03	1.47E-02	1.10E-02	1.10E+00
BP-28-SUR	Holmium-166m	4.89E-03	USK	6.23E-03	1.43E-02	1.10E-02	1.10E+00
BP-29-SUR	Holmium-166m	5.82E-03	SK	5.61E-03	1.40E-02	1.10E-02	1.10E+00
BP-30-SUR	Holmium-166m	6.23E-03	USK	7.35E-03	1.34E-02	1.10E-02	1.10E+00
BP-31-SUR	Holmium-166m	8.81E-03	SK	8.81E-03	1.38E-02	1.10E-02	1.10E+00
BP-32-SUR	Holmium-166m	3.75E-03	USK	5.55E-03	1.43E-02	1.10E-02	1.10E+00
BP-33-SUR	Holmium-166m	5.81E-03	SK	5.12E-03	1.44E-02	1.10E-02	1.10E+00
BP-34-SUR	Holmium-166m	7.95E-03	USK	1.12E-02	1.18E-02	1.10E-02	1.10E+00
BP-35-SUR	Holmium-166m	4.55E-03	USK	5.16E-03	1.38E-02	1.10E-02	1.10E+00
BP-36-SUR	Holmium-166m	1.07E-02	SK	9.11E-03	1.37E-02	1.10E-02	1.10E+00
BP-37-SUR	Holmium-166m	-4.06E-03	USK	8.78E-03	1.33E-02	1.10E-02	1.10E+00
BP-38-SUR	Holmium-166m	5.47E-03	USK	6.80E-03	1.30E-02	1.10E-02	1.10E+00
BP-39-SUR	Holmium-166m	3.87E-02	SK	6.89E-03	1.31E-02	1.10E-02	1.10E+00
BP-40-SUR	Holmium-166m	1.28E-02	SK	7.47E-03	1.34E-02	1.10E-02	1.10E+00
BP-41-SUR	Holmium-166m	3.70E-03	USK	4.76E-03	1.41E-02	1.10E-02	1.10E+00
BP-42-SUR	Holmium-166m	3.75E-03	USK	5.17E-03	1.34E-02	1.10E-02	1.10E+00

Table 6.20 - Holmium-166m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Holmium-166m	3.38E-03	SK	3.30E-03	1.42E-02	1.10E-02	1.10E+00
BP-44-SUR	Holmium-166m	7.84E-03	SK	7.52E-03	1.15E-02	1.10E-02	1.10E+00
BP-45-SUR	Holmium-166m	1.42E-03	USK	1.59E-03	1.38E-02	1.10E-02	1.10E+00
BP-46-SUR	Holmium-166m	2.44E-03	USK	3.93E-03	1.27E-02	1.10E-02	1.10E+00
BP-47-SUR	Holmium-166m	2.01E-03	USK	3.70E-03	1.21E-02	1.10E-02	1.10E+00
BP-48-SUR	Holmium-166m	2.63E-03	USK	5.15E-03	1.47E-02	1.10E-02	1.10E+00
BP-49-SUR	Holmium-166m	8.59E-03	SK	6.36E-03	1.17E-02	1.10E-02	1.10E+00
BP-50-SUR	Holmium-166m	1.66E-03	USK	3.00E-03	1.36E-02	1.10E-02	1.10E+00
BP-51-SUR	Holmium-166m	3.39E-03	USK	3.85E-03	1.16E-02	1.10E-02	1.10E+00
BP-52-SUR	Holmium-166m	1.26E-03	USK	6.80E-03	1.13E-02	1.10E-02	1.10E+00
BP-53-SUR	Holmium-166m	2.71E-02	SK	6.44E-03	1.39E-02	1.10E-02	1.10E+00
BP-54-SUR	Holmium-166m	-1.30E-03	USK	6.27E-03	1.04E-02	1.10E-02	1.10E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Holmium-166m	4.27E-03	SK	3.91E-03	1.15E-02	1.10E-02	1.10E+00
BP-4-SUB	Holmium-166m	1.00E-02	SK	8.02E-03	1.29E-02	1.10E-02	1.10E+00
BP-5-SUB	Holmium-166m	5.60E-03	USK	7.97E-03	1.31E-02	1.10E-02	1.10E+00
BP-9-SUB	Holmium-166m	-6.88E-03	USK	7.09E-03	1.14E-02	1.10E-02	1.10E+00
BP-12-SUB	Holmium-166m	7.75E-03	USK	7.83E-03	1.10E-02	1.10E-02	1.10E+00
BP-13-SUB	Holmium-166m	2.50E-03	USK	3.50E-03	1.37E-02	1.10E-02	1.10E+00
BP-14-SUB	Holmium-166m	3.32E-03	USK	4.12E-03	1.26E-02	1.10E-02	1.10E+00
BP-16-SUB	Holmium-166m	3.84E-03	SK	3.10E-03	1.16E-02	1.10E-02	1.10E+00
BP-20-SUB	Holmium-166m	1.80E-02	SK	4.86E-03	1.30E-02	1.10E-02	1.10E+00
BP-23-SUB	Holmium-166m	3.91E-03	USK	6.29E-03	1.10E-02	1.10E-02	1.10E+00
BP-29-SUB	Holmium-166m	-1.59E-02	USK	1.45E-01	2.59E-01	1.10E-02	1.10E+00
BP-34-SUB	Holmium-166m	2.73E-02	SK	4.69E-03	1.40E-02	1.10E-02	1.10E+00
BP-35-SUB	Holmium-166m	7.80E-03	SK	4.74E-03	1.17E-02	1.10E-02	1.10E+00
BP-38-SUB	Holmium-166m	2.14E-02	SK	4.28E-03	1.40E-02	1.10E-02	1.10E+00
BP-43-SUB	Holmium-166m	1.86E-02	SK	1.00E-02	1.30E-02	1.10E-02	1.10E+00
BP-45-SUB	Holmium-166m	3.15E-02	SK	5.06E-03	1.36E-02	1.10E-02	1.10E+00
BP-46-SUB	Holmium-166m	9.53E-03	SK	6.27E-03	1.60E-02	1.10E-02	1.10E+00
BP-48-SUB	Holmium-166m	4.35E-03	USK	6.76E-03	1.37E-02	1.10E-02	1.10E+00
BP-50-SUB	Holmium-166m	6.55E-04	USK	7.95E-03	1.32E-02	1.10E-02	1.10E+00
BP-51-SUB	Holmium-166m	4.62E-03	USK	5.05E-03	1.39E-02	1.10E-02	1.10E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.21 - Iodine-129 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Iodine-129	-3.85E-01	U	5.61E+00	2.56E+00	2.76E-05	2.76E-03
LR-2-SUR	Iodine-129	-4.33E-01	U	5.86E+00	2.69E+00	2.76E-05	2.76E-03
LR-3-SUR	Iodine-129	1.64E+00		1.59E+00	2.08E+00	2.76E-05	2.76E-03
LR-4-SUR	Iodine-129	1.24E+00	U	1.87E+00	2.38E+00	2.76E-05	2.76E-03
LR-5-SUR	Iodine-129	1.21E+00	U	1.32E+00	1.89E+00	2.76E-05	2.76E-03
LR-6-SUR	Iodine-129	2.89E-01	U	2.18E+00	2.40E+00	2.76E-05	2.76E-03
LR-7-SUR	Iodine-129	-6.48E-02	U	1.03E+00	1.07E+00	2.76E-05	2.76E-03
LR-8-SUR	Iodine-129	-5.96E-01	U	3.50E+00	2.38E+00	2.76E-05	2.76E-03
LR-9-SUR	Iodine-129	-1.05E-01	U	9.91E+00	3.00E+00	2.76E-05	2.76E-03
LR-10-SUR	Iodine-129	2.79E-01	U	1.38E+00	1.51E+00	2.76E-05	2.76E-03
LR-11-SUR	Iodine-129	-7.26E-01	U	6.45E+00	3.65E+00	2.76E-05	2.76E-03
LR-12-SUR	Iodine-129	5.65E-01	U	1.48E+00	2.51E+00	2.76E-05	2.76E-03
LR-13-SUR	Iodine-129	-1.13E+00	U	3.41E+00	2.78E+00	2.76E-05	2.76E-03
LR-14-SUR	Iodine-129	2.77E-01	U	6.17E-01	9.75E-01	2.76E-05	2.76E-03
LR-15-SUR	Iodine-129	2.95E-01	U	1.11E+00	1.84E+00	2.76E-05	2.76E-03
LR-16-SUR	Iodine-129	-3.42E-02	U	7.79E+00	7.40E+00	2.76E-05	2.76E-03
LR-17-SUR	Iodine-129	1.99E-01	U	3.18E-01	2.24E+00	2.76E-05	2.76E-03
LR-18-SUR	Iodine-129	-2.61E-01	U	6.23E+00	3.48E+00	2.76E-05	2.76E-03
LR-19-SUR	Iodine-129	7.73E-01	U	1.50E+00	2.02E+00	2.76E-05	2.76E-03
LR-20-SUR	Iodine-129	1.68E-01	U	9.29E-01	1.29E+00	2.76E-05	2.76E-03
LR-21-SUR	Iodine-129	-3.29E-01	U	4.02E+01	3.04E+00	2.76E-05	2.76E-03
LR-22-SUR	Iodine-129	-8.13E-01	U	4.78E+00	2.66E+00	2.76E-05	2.76E-03
LR-23-SUR	Iodine-129	1.35E-01	U	1.30E+00	1.44E+00	2.76E-05	2.76E-03
LR-24-SUR	Iodine-129	-1.77E-01	U	1.32E+01	2.54E+00	2.76E-05	2.76E-03
LR-25-SUR	Iodine-129	5.38E-01	U	6.48E-01	2.40E+00	2.76E-05	2.76E-03
LR-26-SUR	Iodine-129	-3.41E-01	U	8.99E+01	3.31E+00	2.76E-05	2.76E-03
LR-27-SUR	Iodine-129	-3.44E-01	U	7.71E-01	2.62E+00	2.76E-05	2.76E-03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Iodine-129	3.49E-01	U	1.27E+00	1.40E+00	2.76E-05	2.76E-03
LR-4-SUB	Iodine-129	3.16E-01	U	9.83E-01	1.49E+00	2.76E-05	2.76E-03
LR-9-SUB	Iodine-129	-6.55E-01	U	3.78E+00	2.42E+00	2.76E-05	2.76E-03
LR-13-SUB	Iodine-129	-3.84E-01	U	1.12E+00	3.90E+00	2.76E-05	2.76E-03
LR-15-SUB	Iodine-129	6.34E-01	U	1.54E+00	2.10E+00	2.76E-05	2.76E-03
LR-18-SUB	Iodine-129	8.81E-01	U	1.81E+00	3.04E+00	2.76E-05	2.76E-03
LR-19-SUB	Iodine-129	8.88E-02	U	1.15E+00	1.61E+00	2.76E-05	2.76E-03
LR-23-SUB	Iodine-129	-1.17E-01	U	1.02E+00	1.10E+00	2.76E-05	2.76E-03
LR-24-SUB	Iodine-129	1.75E-01	U	7.97E-01	3.17E+00	2.76E-05	2.76E-03
LR-26-SUB	Iodine-129	7.23E-01	U	9.70E-01	1.01E+00	2.76E-05	2.76E-03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Iodine-129	8.97E-02	U	2.55E-01	2.75E+00	2.76E-05	2.76E-03
RP-2-SUR	Iodine-129	4.57E-02	U	6.94E-01	1.94E+00	2.76E-05	2.76E-03
RP-3-SUR	Iodine-129	7.40E-01	U	1.69E+00	1.82E+00	2.76E-05	2.76E-03
RP-4-SUR	Iodine-129	-4.84E-01	U	2.84E+00	1.82E+00	2.76E-05	2.76E-03
RP-5-SUR	Iodine-129	1.97E-01	U	1.47E+00	1.61E+00	2.76E-05	2.76E-03
RP-6-SUR	Iodine-129	1.08E-01	U	4.30E-01	1.48E+00	2.76E-05	2.76E-03
RP-7-SUR	Iodine-129	3.23E-01	U	6.59E-01	7.07E-01	2.76E-05	2.76E-03
RP-8-SUR	Iodine-129	1.19E+00		8.21E-01	8.77E-01	2.76E-05	2.76E-03
RP-9-SUR	Iodine-129	-1.08E-01	U	1.31E+00	1.43E+00	2.76E-05	2.76E-03
RP-10-SUR	Iodine-129	9.25E-01	U	9.15E-01	1.09E+00	2.76E-05	2.76E-03
RP-11-SUR	Iodine-129	-1.02E-01	U	9.43E-01	1.03E+00	2.76E-05	2.76E-03
RP-12-SUR	Iodine-129	7.10E-01	U	7.52E-01	9.71E-01	2.76E-05	2.76E-03
RP-13-SUR	Iodine-129	4.53E-02	U	3.91E-01	6.49E-01	2.76E-05	2.76E-03
RP-14-SUR	Iodine-129	4.13E-01	U	1.11E+00	1.20E+00	2.76E-05	2.76E-03
RP-15-SUR	Iodine-129	1.26E-01	U	8.34E-01	1.18E+00	2.76E-05	2.76E-03
RP-16-SUR	Iodine-129	6.27E-01	U	8.34E-01	9.48E-01	2.76E-05	2.76E-03
RP-17-SUR	Iodine-129	8.05E-01	U	1.03E+00	1.28E+00	2.76E-05	2.76E-03
RP-18-SUR	Iodine-129	4.48E-02	U	5.18E-01	1.68E+00	2.76E-05	2.76E-03
RP-19-SUR	Iodine-129	-4.51E-01	U	1.59E+00	1.73E+00	2.76E-05	2.76E-03
RP-20-SUR	Iodine-129	1.69E-01	U	6.32E-01	9.31E-01	2.76E-05	2.76E-03
RP-21-SUR	Iodine-129	1.35E-01	U	2.84E-01	1.05E+00	2.76E-05	2.76E-03

Table 6.21 - Iodine-129 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Iodine-129	1.89E-01	U	3.82E-01	1.10E+00	2.76E-05	2.76E-03
RP-23-SUR	Iodine-129	-6.18E-01	U	2.67E+00	1.91E+00	2.76E-05	2.76E-03
RP-24-SUR	Iodine-129	5.04E-01	U	5.08E-01	7.11E-01	2.76E-05	2.76E-03
RP-25-SUR	Iodine-129	5.87E-01		5.44E-01	6.02E-01	2.76E-05	2.76E-03
RP-26-SUR	Iodine-129	8.69E-01	U	1.05E+00	1.40E+00	2.76E-05	2.76E-03
RP-27-SUR	Iodine-129	-8.11E-01	U	2.91E+00	2.20E+00	2.76E-05	2.76E-03
RP-28-SUR	Iodine-129	6.48E-02	U	2.97E-01	1.55E+00	2.76E-05	2.76E-03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Iodine-129	1.32E+00	U	1.48E+00	1.89E+00	2.76E-05	2.76E-03
RP-5-SUB	Iodine-129	4.19E-01	U	5.06E-01	5.37E-01	2.76E-05	2.76E-03
RP-7-SUB	Iodine-129	5.48E-01		5.04E-01	5.93E-01	2.76E-05	2.76E-03
RP-12-SUB	Iodine-129	8.42E-01	U	9.15E-01	1.05E+00	2.76E-05	2.76E-03
RP-13-SUB	Iodine-129	7.91E-02	U	2.73E-01	4.62E-01	2.76E-05	2.76E-03
RP-17-SUB	Iodine-129	2.08E+00	U	2.11E+00	2.62E+00	2.76E-05	2.76E-03
RP-18-SUB	Iodine-129	-2.65E-01	U	3.33E+00	2.72E+00	2.76E-05	2.76E-03
RP-19-SUB	Iodine-129	2.64E-01	U	2.50E+00	2.72E+00	2.76E-05	2.76E-03
RP-20-SUB	Iodine-129	1.12E+00		1.04E+00	2.91E+00	2.76E-05	2.76E-03
RP-28-SUB	Iodine-129	7.69E-02	U	6.35E-01	2.64E+00	2.76E-05	2.76E-03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Iodine-129	1.13E+00	U	1.21E+00	1.41E+00	2.76E-05	2.76E-03
BP-2-SUR	Iodine-129	1.07E+00	U	1.38E+00	1.77E+00	2.76E-05	2.76E-03
BP-3-SUR	Iodine-129	2.22E+00		1.53E+00	1.93E+00	2.76E-05	2.76E-03
BP-4-SUR	Iodine-129	1.09E+00	U	1.26E+00	1.65E+00	2.76E-05	2.76E-03
BP-5-SUR	Iodine-129	1.22E+00	U	1.30E+00	1.83E+00	2.76E-05	2.76E-03
BP-6-SUR	Iodine-129	1.67E+00	U	1.77E+00	2.50E+00	2.76E-05	2.76E-03
BP-7-SUR	Iodine-129	7.63E-01	U	1.04E+00	1.45E+00	2.76E-05	2.76E-03
BP-8-SUR	Iodine-129	2.53E-01	U	6.55E-01	2.37E+00	2.76E-05	2.76E-03
BP-9-SUR	Iodine-129	8.58E-01	U	1.43E+00	1.79E+00	2.76E-05	2.76E-03
BP-10-SUR	Iodine-129	9.11E-01	U	1.10E+00	1.34E+00	2.76E-05	2.76E-03
BP-11-SUR	Iodine-129	3.65E-01	U	9.84E-01	2.58E+00	2.76E-05	2.76E-03
BP-12-SUR	Iodine-129	2.77E-01	U	2.02E+00	2.21E+00	2.76E-05	2.76E-03
BP-13-SUR	Iodine-129	-3.53E-02	U	3.49E-01	2.19E+00	2.76E-05	2.76E-03
BP-14-SUR	Iodine-129	1.60E-02	U	4.04E-02	2.36E+00	2.76E-05	2.76E-03
BP-15-SUR	Iodine-129	1.99E-01	U	1.59E+00	2.66E+00	2.76E-05	2.76E-03
BP-16-SUR	Iodine-129	8.01E-01	U	1.35E+00	1.70E+00	2.76E-05	2.76E-03
BP-17-SUR	Iodine-129	1.68E+00		1.33E+00	1.53E+00	2.76E-05	2.76E-03
BP-18-SUR	Iodine-129	2.99E-01	U	1.20E+00	1.30E+00	2.76E-05	2.76E-03
BP-19-SUR	Iodine-129	8.48E-01	U	1.55E+00	2.24E+00	2.76E-05	2.76E-03
BP-20-SUR	Iodine-129	6.34E-01	U	1.31E+00	1.92E+00	2.76E-05	2.76E-03
BP-21-SUR	Iodine-129	-4.36E-02	U	2.13E+00	2.33E+00	2.76E-05	2.76E-03
BP-22-SUR	Iodine-129	-2.41E-01	U	2.79E+00	3.05E+00	2.76E-05	2.76E-03
BP-23-SUR	Iodine-129	6.52E-01	U	1.76E+00	2.20E+00	2.76E-05	2.76E-03
BP-24-SUR	Iodine-129	-3.27E-01	U	2.92E+00	3.18E+00	2.76E-05	2.76E-03
BP-25-SUR	Iodine-129	4.37E-01	U	1.33E+00	1.67E+00	2.76E-05	2.76E-03
BP-26-SUR	Iodine-129	1.83E+00	U	1.91E+00	1.99E+00	2.76E-05	2.76E-03
BP-27-SUR	Iodine-129	-4.93E-01	U	6.94E+00	2.86E+00	2.76E-05	2.76E-03
BP-28-SUR	Iodine-129	-6.25E-01	U	6.65E+00	3.05E+00	2.76E-05	2.76E-03
BP-29-SUR	Iodine-129	1.77E+00		1.48E+00	1.93E+00	2.76E-05	2.76E-03
BP-30-SUR	Iodine-129	1.14E+00	U	1.39E+00	1.62E+00	2.76E-05	2.76E-03
BP-31-SUR	Iodine-129	1.52E+00	U	2.04E+00	2.31E+00	2.76E-05	2.76E-03
BP-32-SUR	Iodine-129	-6.89E-01	U	2.93E+00	2.96E+00	2.76E-05	2.76E-03
BP-33-SUR	Iodine-129	1.00E+00	U	1.33E+00	1.82E+00	2.76E-05	2.76E-03
BP-34-SUR	Iodine-129	2.99E+00		2.58E+00	2.58E+00	2.76E-05	2.76E-03
BP-35-SUR	Iodine-129	4.90E-01	U	5.91E-01	2.95E+00	2.76E-05	2.76E-03
BP-36-SUR	Iodine-129	-3.24E-01	U	2.33E+01	3.14E+00	2.76E-05	2.76E-03
BP-37-SUR	Iodine-129	3.73E-01	U	8.84E-01	1.23E+00	2.76E-05	2.76E-03
BP-38-SUR	Iodine-129	2.68E-01	U	6.14E-01	8.65E-01	2.76E-05	2.76E-03
BP-39-SUR	Iodine-129	2.43E-01	U	1.08E+00	1.55E+00	2.76E-05	2.76E-03
BP-40-SUR	Iodine-129	4.51E-01	U	6.53E-01	2.55E+00	2.76E-05	2.76E-03
BP-41-SUR	Iodine-129	9.69E-02	U	1.39E+00	2.38E+00	2.76E-05	2.76E-03
BP-42-SUR	Iodine-129	3.03E-01	U	8.95E-01	1.38E+00	2.76E-05	2.76E-03

Table 6.21 - Iodine-129 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Iodine-129	4.61E-01	U	7.22E-01	1.11E+00	2.76E-05	2.76E-03
BP-44-SUR	Iodine-129	-2.34E-01	U	3.05E+02	2.88E+00	2.76E-05	2.76E-03
BP-45-SUR	Iodine-129	1.05E+00	U	1.56E+00	2.03E+00	2.76E-05	2.76E-03
BP-46-SUR	Iodine-129	1.69E+00		1.58E+00	2.07E+00	2.76E-05	2.76E-03
BP-47-SUR	Iodine-129	9.20E-01	U	1.20E+00	1.47E+00	2.76E-05	2.76E-03
BP-48-SUR	Iodine-129	8.61E-01	U	1.35E+00	1.54E+00	2.76E-05	2.76E-03
BP-49-SUR	Iodine-129	1.90E+00		1.70E+00	1.89E+00	2.76E-05	2.76E-03
BP-50-SUR	Iodine-129	4.49E-01	U	5.36E-01	2.53E+00	2.76E-05	2.76E-03
BP-51-SUR	Iodine-129	-6.62E-01	U	2.89E+00	3.14E+00	2.76E-05	2.76E-03
BP-52-SUR	Iodine-129	5.98E-03	U	2.10E+00	2.31E+00	2.76E-05	2.76E-03
BP-53-SUR	Iodine-129	-1.28E-01	U	2.30E-01	1.06E+00	2.76E-05	2.76E-03
BP-54-SUR	Iodine-129	-1.32E-01	U	8.13E-01	1.63E+00	2.76E-05	2.76E-03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Iodine-129	1.31E-01	U	1.77E-01	2.56E+00	2.76E-05	2.76E-03
BP-4-SUB	Iodine-129	-5.27E-01	U	8.95E-01	3.56E+00	2.76E-05	2.76E-03
BP-5-SUB	Iodine-129	1.13E-01	U	3.61E-01	1.74E+00	2.76E-05	2.76E-03
BP-9-SUB	Iodine-129	-1.09E+00	U	3.77E+00	2.56E+00	2.76E-05	2.76E-03
BP-12-SUB	Iodine-129	6.01E-02	U	8.69E-01	1.27E+00	2.76E-05	2.76E-03
BP-13-SUB	Iodine-129	1.18E+00	U	1.41E+00	1.44E+00	2.76E-05	2.76E-03
BP-14-SUB	Iodine-129	2.55E-01	U	1.04E+00	1.32E+00	2.76E-05	2.76E-03
BP-16-SUB	Iodine-129	6.58E-02	U	2.01E+00	2.27E+00	2.76E-05	2.76E-03
BP-20-SUB	Iodine-129	4.32E-01	U	8.42E-01	2.15E+00	2.76E-05	2.76E-03
BP-23-SUB	Iodine-129	7.52E-01	U	7.87E-01	1.10E+00	2.76E-05	2.76E-03
BP-29-SUB	Iodine-129	4.58E-01	U	7.22E-01	2.90E+00	2.76E-05	2.76E-03
BP-34-SUB	Iodine-129	7.18E-01	U	1.23E+00	1.87E+00	2.76E-05	2.76E-03
BP-35-SUB	Iodine-129	-8.41E-01	U	7.53E+00	4.00E+00	2.76E-05	2.76E-03
BP-38-SUB	Iodine-129	-3.58E-02	U	4.30E-01	2.44E+00	2.76E-05	2.76E-03
BP-43-SUB	Iodine-129	1.51E-01	U	4.38E-01	2.82E+00	2.76E-05	2.76E-03
BP-45-SUB	Iodine-129	6.87E-02	U	2.33E+00	2.56E+00	2.76E-05	2.76E-03
BP-46-SUB	Iodine-129	2.31E-01	U	4.66E-01	1.13E+00	2.76E-05	2.76E-03
BP-48-SUB	Iodine-129	1.64E+00		1.43E+00	2.97E+00	2.76E-05	2.76E-03
BP-50-SUB	Iodine-129	9.29E-01	U	1.46E+00	2.07E+00	2.76E-05	2.76E-03
BP-51-SUB	Iodine-129	-1.46E-01	U	2.00E+00	1.30E+00	2.76E-05	2.76E-03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.22 - Iron-55 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Iron-55	-1.17E+00	ULJ	9.37E+00	1.65E+01	8.21E-01	8.21E+01
LR-2-SUR	Iron-55	2.38E+00	ULJ	1.77E+01	3.12E+01	8.21E-01	8.21E+01
LR-3-SUR	Iron-55	1.54E+00	ULJ	3.70E+00	6.22E+00	8.21E-01	8.21E+01
LR-4-SUR	Iron-55	5.49E+00	ULJ	7.68E+00	1.30E+01	8.21E-01	8.21E+01
LR-5-SUR	Iron-55	2.99E+00	ULJ	8.80E+00	1.52E+01	8.21E-01	8.21E+01
LR-6-SUR	Iron-55	7.61E-01	ULJ	4.92E+00	8.45E+00	8.21E-01	8.21E+01
LR-7-SUR	Iron-55	5.88E-01	ULJ	4.08E+00	6.93E+00	8.21E-01	8.21E+01
LR-8-SUR	Iron-55	3.16E+00	ULJ	4.22E+00	6.97E+00	8.21E-01	8.21E+01
LR-9-SUR	Iron-55	-1.77E+01	ULJ	4.92E+01	8.85E+01	8.21E-01	8.21E+01
LR-10-SUR	Iron-55	4.37E+00	ULJ	5.17E+00	8.54E+00	8.21E-01	8.21E+01
LR-11-SUR	Iron-55	2.71E+00	ULJ	4.53E+00	7.58E+00	8.21E-01	8.21E+01
LR-12-SUR	Iron-55	2.59E+00	ULJ	3.46E+00	5.66E+00	8.21E-01	8.21E+01
LR-13-SUR	Iron-55	1.71E+00	ULJ	4.20E+00	7.08E+00	8.21E-01	8.21E+01
LR-14-SUR	Iron-55	3.80E+00	ULJ	6.07E+00	1.02E+01	8.21E-01	8.21E+01
LR-15-SUR	Iron-55	3.08E+00	ULJ	5.02E+00	8.42E+00	8.21E-01	8.21E+01
LR-16-SUR	Iron-55	2.21E+00	ULJ	1.14E+01	1.99E+01	8.21E-01	8.21E+01
LR-17-SUR	Iron-55	-5.11E-01	ULJ	5.32E+00	9.24E+00	8.21E-01	8.21E+01
LR-18-SUR	Iron-55	3.54E+00	ULJ	6.80E+00	1.16E+01	8.21E-01	8.21E+01
LR-19-SUR	Iron-55	-1.20E+00	UJ	4.37E+00	7.17E+00	8.21E-01	8.21E+01
LR-20-SUR	Iron-55	2.29E-01	UJ	5.61E+00	9.30E+00	8.21E-01	8.21E+01
LR-21-SUR	Iron-55	-4.52E+00	ULJ	4.36E+00	7.21E+00	8.21E-01	8.21E+01
LR-22-SUR	Iron-55	-4.09E-01	UJ	4.49E+00	7.35E+00	8.21E-01	8.21E+01
LR-23-SUR	Iron-55	-7.60E-01	UJ	3.47E+00	5.54E+00	8.21E-01	8.21E+01
LR-24-SUR	Iron-55	1.05E+00	UJ	5.04E+00	8.23E+00	8.21E-01	8.21E+01
LR-25-SUR	Iron-55	3.49E+00	UJ	6.50E+00	1.06E+01	8.21E-01	8.21E+01
LR-26-SUR	Iron-55	-2.93E-01	UJ	3.96E+00	6.38E+00	8.21E-01	8.21E+01
LR-27-SUR	Iron-55	8.18E+00	BJ	6.84E+00	1.09E+01	8.21E-01	8.21E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Iron-55	-1.20E-01	UJ	8.17E+00	1.39E+01	8.21E-01	8.21E+01
LR-4-SUB	Iron-55	-1.41E-01	UJ	3.58E+00	5.67E+00	8.21E-01	8.21E+01
LR-9-SUB	Iron-55	-2.54E-01	UJ	3.74E+00	6.01E+00	8.21E-01	8.21E+01
LR-13-SUB	Iron-55	-1.05E+00	UJ	5.68E+00	9.49E+00	8.21E-01	8.21E+01
LR-15-SUB	Iron-55	-9.17E-01	UJ	4.47E+00	7.37E+00	8.21E-01	8.21E+01
LR-18-SUB	Iron-55	3.37E+00	UJ	4.83E+00	7.67E+00	8.21E-01	8.21E+01
LR-19-SUB	Iron-55	-2.55E+00	UJ	4.75E+00	7.90E+00	8.21E-01	8.21E+01
LR-23-SUB	Iron-55	7.32E+00	BUL	1.18E+01	2.03E+01	8.21E-01	8.21E+01
LR-24-SUB	Iron-55	3.33E+00	BUL	6.57E+00	1.11E+01	8.21E-01	8.21E+01
LR-26-SUB	Iron-55	1.46E+01	BL	9.29E+00	1.44E+01	8.21E-01	8.21E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Iron-55	6.41E-01	UJ	2.93E+00	4.64E+00	8.21E-01	8.21E+01
RP-2-SUR	Iron-55	3.74E-01	UJ	2.93E+00	4.66E+00	8.21E-01	8.21E+01
RP-3-SUR	Iron-55	-7.98E-01	UJ	3.27E+00	5.34E+00	8.21E-01	8.21E+01
RP-4-SUR	Iron-55	7.87E-01	UJ	3.10E+00	4.94E+00	8.21E-01	8.21E+01
RP-5-SUR	Iron-55	2.92E-01	UJ	3.64E+00	5.92E+00	8.21E-01	8.21E+01
RP-6-SUR	Iron-55	6.90E-01	UJ	3.28E+00	5.24E+00	8.21E-01	8.21E+01
RP-7-SUR	Iron-55	3.30E-01	UJ	3.18E+00	5.11E+00	8.21E-01	8.21E+01
RP-8-SUR	Iron-55	-3.70E-01	UJ	2.82E+00	4.50E+00	8.21E-01	8.21E+01
RP-9-SUR	Iron-55	1.11E+00	UJ	3.09E+00	4.91E+00	8.21E-01	8.21E+01
RP-10-SUR	Iron-55	1.51E+00	UJ	2.87E+00	4.48E+00	8.21E-01	8.21E+01
RP-11-SUR	Iron-55	1.99E+00	UJ	2.85E+00	4.42E+00	8.21E-01	8.21E+01
RP-12-SUR	Iron-55	1.30E+00	UJ	3.34E+00	5.33E+00	8.21E-01	8.21E+01
RP-13-SUR	Iron-55	4.81E+00	J	3.68E+00	5.68E+00	8.21E-01	8.21E+01
RP-14-SUR	Iron-55	1.40E+00	UJ	3.44E+00	5.48E+00	8.21E-01	8.21E+01
RP-15-SUR	Iron-55	-7.33E-01	UJ	3.49E+00	5.73E+00	8.21E-01	8.21E+01
RP-16-SUR	Iron-55	-2.43E+00	UJ	3.17E+00	5.21E+00	8.21E-01	8.21E+01
RP-17-SUR	Iron-55	2.98E-01	UJ	2.53E+00	3.97E+00	8.21E-01	8.21E+01
RP-18-SUR	Iron-55	1.05E+00	UJ	3.35E+00	5.37E+00	8.21E-01	8.21E+01
RP-19-SUR	Iron-55	2.17E-01	UJ	3.09E+00	5.25E+00	8.21E-01	8.21E+01
RP-20-SUR	Iron-55	-1.67E+00	UJ	3.11E+00	5.37E+00	8.21E-01	8.21E+01
RP-21-SUR	Iron-55	-1.95E+00	UJ	3.34E+00	5.79E+00	8.21E-01	8.21E+01

Table 6.22 - Iron-55 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Iron-55	-2.82E+00	UJ	3.06E+00	5.30E+00	8.21E-01	8.21E+01
RP-23-SUR	Iron-55	-9.45E-01	UJ	2.80E+00	4.80E+00	8.21E-01	8.21E+01
RP-24-SUR	Iron-55	-1.13E-01	UJ	2.87E+00	4.92E+00	8.21E-01	8.21E+01
RP-25-SUR	Iron-55	-1.09E+00	UJ	2.68E+00	4.60E+00	8.21E-01	8.21E+01
RP-26-SUR	Iron-55	-1.91E+00	UJ	8.70E+00	1.54E+01	8.21E-01	8.21E+01
RP-27-SUR	Iron-55	-1.83E-01	UJ	2.47E+00	4.19E+00	8.21E-01	8.21E+01
RP-28-SUR	Iron-55	1.11E+00	UJ	3.25E+00	5.48E+00	8.21E-01	8.21E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Iron-55	1.52E+00	UJ	3.42E+00	5.75E+00	8.21E-01	8.21E+01
RP-5-SUB	Iron-55	5.65E-01	UJ	3.72E+00	6.37E+00	8.21E-01	8.21E+01
RP-7-SUB	Iron-55	3.40E-01	UJ	3.75E+00	6.45E+00	8.21E-01	8.21E+01
RP-12-SUB	Iron-55	2.19E-01	UJ	3.36E+00	5.76E+00	8.21E-01	8.21E+01
RP-13-SUB	Iron-55	3.18E-01	UJ	3.07E+00	5.23E+00	8.21E-01	8.21E+01
RP-17-SUB	Iron-55	5.81E-02	ULB	5.25E+00	9.07E+00	8.21E-01	8.21E+01
RP-18-SUB	Iron-55	5.45E+00	ULB	5.46E+00	8.80E+00	8.21E-01	8.21E+01
RP-19-SUB	Iron-55	7.95E+00	LB	6.83E+00	1.10E+01	8.21E-01	8.21E+01
RP-20-SUB	Iron-55	7.42E+00	LB	4.35E+00	6.33E+00	8.21E-01	8.21E+01
RP-28-SUB	Iron-55	6.45E+00	LB	5.15E+00	8.01E+00	8.21E-01	8.21E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Iron-55	2.98E-01	UJ	3.38E+00	5.46E+00	8.21E-01	8.21E+01
BP-2-SUR	Iron-55	1.72E+00	UJ	3.86E+00	6.20E+00	8.21E-01	8.21E+01
BP-3-SUR	Iron-55	-1.07E+00	UJ	4.00E+00	6.63E+00	8.21E-01	8.21E+01
BP-4-SUR	Iron-55	-1.16E+00	UJ	2.84E+00	4.56E+00	8.21E-01	8.21E+01
BP-5-SUR	Iron-55	-9.65E-01	UJ	3.68E+00	6.06E+00	8.21E-01	8.21E+01
BP-6-SUR	Iron-55	5.48E-01	UJ	3.25E+00	5.23E+00	8.21E-01	8.21E+01
BP-7-SUR	Iron-55	-3.73E+00	UJ	3.71E+00	6.15E+00	8.21E-01	8.21E+01
BP-8-SUR	Iron-55	-3.37E-01	UJ	3.30E+00	5.37E+00	8.21E-01	8.21E+01
BP-9-SUR	Iron-55	1.05E+00	UJ	3.50E+00	5.62E+00	8.21E-01	8.21E+01
BP-10-SUR	Iron-55	-9.07E+01	RUJ	4.07E+01	8.05E+01	8.21E-01	8.21E+01
BP-11-SUR	Iron-55	-3.95E+00	ULJ	3.16E+00	5.16E+00	8.21E-01	8.21E+01
BP-12-SUR	Iron-55	-1.59E+00	UJ	3.27E+00	5.35E+00	8.21E-01	8.21E+01
BP-13-SUR	Iron-55	-2.84E+00	UJ	3.33E+00	5.48E+00	8.21E-01	8.21E+01
BP-14-SUR	Iron-55	1.12E+00	UJ	2.94E+00	4.63E+00	8.21E-01	8.21E+01
BP-15-SUR	Iron-55	-2.21E+00	UJ	4.07E+00	6.81E+00	8.21E-01	8.21E+01
BP-16-SUR	Iron-55	-3.78E-01	UJ	3.05E+00	4.93E+00	8.21E-01	8.21E+01
BP-17-SUR	Iron-55	-5.19E-01	UJ	1.81E+00	2.73E+00	8.21E-01	8.21E+01
BP-18-SUR	Iron-55	-5.90E-01	UJ	3.22E+00	5.24E+00	8.21E-01	8.21E+01
BP-19-SUR	Iron-55	2.31E+00	UJ	2.75E+00	4.25E+00	8.21E-01	8.21E+01
BP-20-SUR	Iron-55	2.25E-02	UJ	2.53E+00	4.03E+00	8.21E-01	8.21E+01
BP-21-SUR	Iron-55	1.89E+00	UJ	2.69E+00	4.19E+00	8.21E-01	8.21E+01
BP-22-SUR	Iron-55	1.74E+00	UJ	2.69E+00	4.21E+00	8.21E-01	8.21E+01
BP-23-SUR	Iron-55	8.21E-01	UJ	2.64E+00	4.20E+00	8.21E-01	8.21E+01
BP-24-SUR	Iron-55	2.91E+00	UJ	3.02E+00	4.67E+00	8.21E-01	8.21E+01
BP-25-SUR	Iron-55	1.96E+00	UJ	2.87E+00	4.50E+00	8.21E-01	8.21E+01
BP-26-SUR	Iron-55	3.99E+00	J	2.89E+00	4.27E+00	8.21E-01	8.21E+01
BP-27-SUR	Iron-55	2.49E+00	UJ	2.92E+00	4.53E+00	8.21E-01	8.21E+01
BP-28-SUR	Iron-55	1.23E+00	UJ	2.82E+00	4.49E+00	8.21E-01	8.21E+01
BP-29-SUR	Iron-55	3.17E+00	J	3.00E+00	4.61E+00	8.21E-01	8.21E+01
BP-30-SUR	Iron-55	1.96E-01	UJ	2.93E+00	4.76E+00	8.21E-01	8.21E+01
BP-31-SUR	Iron-55	2.04E+00	UJ	2.92E+00	4.59E+00	8.21E-01	8.21E+01
BP-32-SUR	Iron-55	2.25E+00	UJ	3.07E+00	4.83E+00	8.21E-01	8.21E+01
BP-33-SUR	Iron-55	1.55E+00	UJ	2.60E+00	4.07E+00	8.21E-01	8.21E+01
BP-34-SUR	Iron-55	4.04E+00	J	2.98E+00	4.44E+00	8.21E-01	8.21E+01
BP-35-SUR	Iron-55	7.31E+00	UJ	8.88E+00	1.49E+01	8.21E-01	8.21E+01
BP-36-SUR	Iron-55	2.20E+00	UJ	3.49E+00	5.77E+00	8.21E-01	8.21E+01
BP-37-SUR	Iron-55	3.13E+00	UJ	4.53E+00	7.56E+00	8.21E-01	8.21E+01
BP-38-SUR	Iron-55	2.05E+00	UJ	3.80E+00	6.33E+00	8.21E-01	8.21E+01
BP-39-SUR	Iron-55	-2.28E-01	UJ	3.36E+00	5.72E+00	8.21E-01	8.21E+01
BP-40-SUR	Iron-55	4.50E+00	J	3.92E+00	6.27E+00	8.21E-01	8.21E+01
BP-41-SUR	Iron-55	2.53E+00	UJ	3.06E+00	4.97E+00	8.21E-01	8.21E+01
BP-42-SUR	Iron-55	9.64E-01	UJ	3.57E+00	6.02E+00	8.21E-01	8.21E+01

Table 6.22 - Iron-55 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Iron-55	2.12E+00	UJ	4.45E+00	7.51E+00	8.21E-01	8.21E+01
BP-44-SUR	Iron-55	3.24E+00	UJ	3.98E+00	6.55E+00	8.21E-01	8.21E+01
BP-45-SUR	Iron-55	4.92E+00	J	3.20E+00	4.90E+00	8.21E-01	8.21E+01
BP-46-SUR	Iron-55	4.19E+00	J	3.90E+00	6.28E+00	8.21E-01	8.21E+01
BP-47-SUR	Iron-55	3.83E+00	J	3.73E+00	6.02E+00	8.21E-01	8.21E+01
BP-48-SUR	Iron-55	1.75E+00	UJ	3.39E+00	5.64E+00	8.21E-01	8.21E+01
BP-49-SUR	Iron-55	6.39E+00	J	4.75E+00	7.53E+00	8.21E-01	8.21E+01
BP-50-SUR	Iron-55	1.99E+00	UJ	4.53E+00	7.67E+00	8.21E-01	8.21E+01
BP-51-SUR	Iron-55	4.33E+00	UJ	4.43E+00	7.24E+00	8.21E-01	8.21E+01
BP-52-SUR	Iron-55	7.15E+00	J	5.67E+00	9.11E+00	8.21E-01	8.21E+01
BP-53-SUR	Iron-55	2.23E+00	UJ	5.03E+00	8.53E+00	8.21E-01	8.21E+01
BP-54-SUR	Iron-55	2.97E+00	UJ	5.56E+00	9.42E+00	8.21E-01	8.21E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Iron-55	2.20E+00	URBJ	2.15E+01	3.80E+01	8.21E-01	8.21E+01
BP-4-SUB	Iron-55	6.51E+00	UBJ	8.58E+00	1.45E+01	8.21E-01	8.21E+01
BP-5-SUB	Iron-55	3.26E+00	UBJ	4.05E+00	6.70E+00	8.21E-01	8.21E+01
BP-9-SUB	Iron-55	3.05E+00	UBJ	4.08E+00	6.79E+00	8.21E-01	8.21E+01
BP-12-SUB	Iron-55	3.71E+00	UBJ	4.03E+00	6.62E+00	8.21E-01	8.21E+01
BP-13-SUB	Iron-55	-6.60E-01	UKJ	3.30E+00	5.67E+00	8.21E-01	8.21E+01
BP-14-SUB	Iron-55	2.33E+00	UJB	3.91E+00	6.54E+00	8.21E-01	8.21E+01
BP-16-SUB	Iron-55	6.88E+00	JB	5.05E+00	8.10E+00	8.21E-01	8.21E+01
BP-20-SUB	Iron-55	1.69E+00	UBJ	4.35E+00	7.40E+00	8.21E-01	8.21E+01
BP-23-SUB	Iron-55	2.54E-01	UBJ	4.17E+00	7.17E+00	8.21E-01	8.21E+01
BP-29-SUB	Iron-55	3.50E+00	UBJ	5.71E+00	9.66E+00	8.21E-01	8.21E+01
BP-34-SUB	Iron-55	1.13E+00	UBJ	4.11E+00	6.99E+00	8.21E-01	8.21E+01
BP-35-SUB	Iron-55	4.44E+00	UBJ	5.20E+00	8.66E+00	8.21E-01	8.21E+01
BP-38-SUB	Iron-55	2.05E+00	UBJ	4.60E+00	7.79E+00	8.21E-01	8.21E+01
BP-43-SUB	Iron-55	6.44E+00	BJ	4.34E+00	6.80E+00	8.21E-01	8.21E+01
BP-45-SUB	Iron-55	4.44E+00	BJU	4.52E+00	7.42E+00	8.21E-01	8.21E+01
BP-46-SUB	Iron-55	3.30E+00	BJU	3.55E+00	5.82E+00	8.21E-01	8.21E+01
BP-48-SUB	Iron-55	3.90E+00	BJ	3.69E+00	5.97E+00	8.21E-01	8.21E+01
BP-50-SUB	Iron-55	3.47E+00	BJU	3.75E+00	6.15E+00	8.21E-01	8.21E+01
BP-51-SUB	Iron-55	6.95E+00	BJ	4.02E+00	6.11E+00	8.21E-01	8.21E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.23 - Lead-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Lead-210	1.36E+00		2.67E-01	1.91E-01	6.42E-05	6.42E-03
LR-2-SUR	Lead-210	9.89E-01		2.19E-01	1.73E-01	6.42E-05	6.42E-03
LR-3-SUR	Lead-210	1.06E+00		2.18E-01	1.65E-01	6.42E-05	6.42E-03
LR-4-SUR	Lead-210	1.16E+00		2.39E-01	1.80E-01	6.42E-05	6.42E-03
LR-5-SUR	Lead-210	1.26E+00		2.56E-01	1.91E-01	6.42E-05	6.42E-03
LR-6-SUR	Lead-210	1.14E+00		2.37E-01	1.90E-01	6.42E-05	6.42E-03
LR-7-SUR	Lead-210	1.16E+00		2.32E-01	1.64E-01	6.42E-05	6.42E-03
LR-8-SUR	Lead-210	1.23E+00		2.36E-01	1.58E-01	6.42E-05	6.42E-03
LR-9-SUR	Lead-210	1.22E+00		2.39E-01	1.67E-01	6.42E-05	6.42E-03
LR-10-SUR	Lead-210	1.09E+00		2.22E-01	1.82E-01	6.42E-05	6.42E-03
LR-11-SUR	Lead-210	1.30E+00		2.61E-01	1.86E-01	6.42E-05	6.42E-03
LR-12-SUR	Lead-210	1.43E+00		2.61E-01	1.59E-01	6.42E-05	6.42E-03
LR-13-SUR	Lead-210	1.12E+00		2.36E-01	1.95E-01	6.42E-05	6.42E-03
LR-14-SUR	Lead-210	1.17E+00		2.43E-01	1.97E-01	6.42E-05	6.42E-03
LR-15-SUR	Lead-210	1.06E+00		1.73E-01	9.36E-02	6.42E-05	6.42E-03
LR-16-SUR	Lead-210	8.97E-01		2.05E-01	1.87E-01	6.42E-05	6.42E-03
LR-17-SUR	Lead-210	9.39E-01		1.89E-01	1.27E-01	6.42E-05	6.42E-03
LR-18-SUR	Lead-210	1.01E+00		2.01E-01	1.41E-01	6.42E-05	6.42E-03
LR-19-SUR	Lead-210	8.91E-01		1.80E-01	1.45E-01	6.42E-05	6.42E-03
LR-20-SUR	Lead-210	1.22E+00		2.36E-01	1.75E-01	6.42E-05	6.42E-03
LR-21-SUR	Lead-210	1.17E+00		2.24E-01	1.63E-01	6.42E-05	6.42E-03
LR-22-SUR	Lead-210	9.91E-01		1.86E-01	1.39E-01	6.42E-05	6.42E-03
LR-23-SUR	Lead-210	1.03E+00		2.19E-01	1.91E-01	6.42E-05	6.42E-03
LR-24-SUR	Lead-210	1.20E+00		2.26E-01	1.59E-01	6.42E-05	6.42E-03
LR-25-SUR	Lead-210	9.48E-01		2.05E-01	1.89E-01	6.42E-05	6.42E-03
LR-26-SUR	Lead-210	8.30E-01		1.65E-01	1.18E-01	6.42E-05	6.42E-03
LR-27-SUR	Lead-210	1.26E+00		2.44E-01	1.51E-01	6.42E-05	6.42E-03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Lead-210	1.16E+00		2.16E-01	1.40E-01	6.42E-05	6.42E-03
LR-4-SUB	Lead-210	1.11E+00		2.18E-01	1.63E-01	6.42E-05	6.42E-03
LR-9-SUB	Lead-210	1.00E+00		1.94E-01	1.34E-01	6.42E-05	6.42E-03
LR-13-SUB	Lead-210	1.18E+00		2.18E-01	1.49E-01	6.42E-05	6.42E-03
LR-15-SUB	Lead-210	9.20E-01		2.06E-01	1.88E-01	6.42E-05	6.42E-03
LR-18-SUB	Lead-210	9.67E-01		1.95E-01	1.59E-01	6.42E-05	6.42E-03
LR-19-SUB	Lead-210	1.26E+00		2.50E-01	1.94E-01	6.42E-05	6.42E-03
LR-23-SUB	Lead-210	1.12E+00		2.21E-01	1.23E-01	6.42E-05	6.42E-03
LR-24-SUB	Lead-210	1.50E+00		2.89E-01	1.64E-01	6.42E-05	6.42E-03
LR-26-SUB	Lead-210	1.07E+00		2.15E-01	1.44E-01	6.42E-05	6.42E-03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Lead-210	7.72E-01		1.89E-01	1.86E-01	6.42E-05	6.42E-03
RP-2-SUR	Lead-210	8.17E-01		1.71E-01	1.39E-01	6.42E-05	6.42E-03
RP-3-SUR	Lead-210	1.15E+00		2.44E-01	2.11E-01	6.42E-05	6.42E-03
RP-4-SUR	Lead-210	1.28E+00		2.39E-01	1.54E-01	6.42E-05	6.42E-03
RP-5-SUR	Lead-210	1.96E+00		3.21E-01	1.36E-01	6.42E-05	6.42E-03
RP-6-SUR	Lead-210	1.64E+00		3.03E-01	1.95E-01	6.42E-05	6.42E-03
RP-7-SUR	Lead-210	1.36E+00		2.45E-01	1.63E-01	6.42E-05	6.42E-03
RP-8-SUR	Lead-210	8.41E-01		1.66E-01	1.23E-01	6.42E-05	6.42E-03
RP-9-SUR	Lead-210	9.04E-01		1.75E-01	1.32E-01	6.42E-05	6.42E-03
RP-10-SUR	Lead-210	6.61E-01		1.50E-01	1.43E-01	6.42E-05	6.42E-03
RP-11-SUR	Lead-210	7.77E-01		1.52E-01	1.10E-01	6.42E-05	6.42E-03
RP-12-SUR	Lead-210	1.13E+00		2.11E-01	1.39E-01	6.42E-05	6.42E-03
RP-13-SUR	Lead-210	1.25E+00		2.45E-01	1.90E-01	6.42E-05	6.42E-03
RP-14-SUR	Lead-210	2.17E+00		3.68E-01	1.80E-01	6.42E-05	6.42E-03
RP-15-SUR	Lead-210	1.64E+00		2.76E-01	1.37E-01	6.42E-05	6.42E-03
RP-16-SUR	Lead-210	1.93E+00		3.58E-01	1.82E-01	6.42E-05	6.42E-03
RP-17-SUR	Lead-210	7.37E-01		1.78E-01	1.80E-01	6.42E-05	6.42E-03
RP-18-SUR	Lead-210	1.67E+00		2.81E-01	1.46E-01	6.42E-05	6.42E-03
RP-19-SUR	Lead-210	1.28E+00		2.39E-01	1.60E-01	6.42E-05	6.42E-03
RP-20-SUR	Lead-210	1.70E+00		2.83E-01	1.40E-01	6.42E-05	6.42E-03
RP-21-SUR	Lead-210	1.12E+00		2.25E-01	1.82E-01	6.42E-05	6.42E-03

Table 6.23 - Lead-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Lead-210	1.16E+00		1.96E-01	1.26E-01	6.42E-05	6.42E-03
RP-23-SUR	Lead-210	8.36E-01		1.58E-01	1.32E-01	6.42E-05	6.42E-03
RP-24-SUR	Lead-210	9.49E-01		1.90E-01	1.47E-01	6.42E-05	6.42E-03
RP-25-SUR	Lead-210	7.81E-01	R	1.52E-01	1.13E-01	6.42E-05	6.42E-03
RP-26-SUR	Lead-210	1.19E+00		2.20E-01	1.30E-01	6.42E-05	6.42E-03
RP-27-SUR	Lead-210	6.70E-01		1.73E-01	1.62E-01	6.42E-05	6.42E-03
RP-28-SUR	Lead-210	1.25E+00		2.69E-01	1.97E-01	6.42E-05	6.42E-03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Lead-210	1.33E+00		2.77E-01	1.90E-01	6.42E-05	6.42E-03
RP-5-SUB	Lead-210	1.32E+00		2.66E-01	1.63E-01	6.42E-05	6.42E-03
RP-7-SUB	Lead-210	1.44E+00		2.73E-01	1.58E-01	6.42E-05	6.42E-03
RP-12-SUB	Lead-210	1.34E+00		2.61E-01	1.71E-01	6.42E-05	6.42E-03
RP-13-SUB	Lead-210	6.66E-01		1.94E-01	1.92E-01	6.42E-05	6.42E-03
RP-17-SUB	Lead-210	8.92E-01		1.87E-01	1.52E-01	6.42E-05	6.42E-03
RP-18-SUB	Lead-210	1.04E+00		1.94E-01	1.29E-01	6.42E-05	6.42E-03
RP-19-SUB	Lead-210	7.65E-01		1.56E-01	1.12E-01	6.42E-05	6.42E-03
RP-20-SUB	Lead-210	6.79E-01		1.48E-01	1.27E-01	6.42E-05	6.42E-03
RP-28-SUB	Lead-210	9.01E-01		1.80E-01	1.38E-01	6.42E-05	6.42E-03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Lead-210	1.27E+00		2.30E-01	1.48E-01	6.42E-05	6.42E-03
BP-2-SUR	Lead-210	1.41E+00		2.22E-01	1.02E-01	6.42E-05	6.42E-03
BP-3-SUR	Lead-210	1.32E+00		2.31E-01	1.11E-01	6.42E-05	6.42E-03
BP-4-SUR	Lead-210	1.20E+00		2.17E-01	1.31E-01	6.42E-05	6.42E-03
BP-5-SUR	Lead-210	1.28E+00		2.32E-01	1.51E-01	6.42E-05	6.42E-03
BP-6-SUR	Lead-210	1.53E+00		2.75E-01	1.62E-01	6.42E-05	6.42E-03
BP-7-SUR	Lead-210	1.71E+00		2.88E-01	1.32E-01	6.42E-05	6.42E-03
BP-8-SUR	Lead-210	1.76E+00		2.92E-01	1.36E-01	6.42E-05	6.42E-03
BP-9-SUR	Lead-210	1.47E+00		2.56E-01	1.42E-01	6.42E-05	6.42E-03
BP-10-SUR	Lead-210	1.49E+00		2.54E-01	1.31E-01	6.42E-05	6.42E-03
BP-11-SUR	Lead-210	1.30E+00		2.29E-01	1.32E-01	6.42E-05	6.42E-03
BP-12-SUR	Lead-210	8.77E-01		1.81E-01	1.59E-01	6.42E-05	6.42E-03
BP-13-SUR	Lead-210	1.41E+00		2.26E-01	1.19E-01	6.42E-05	6.42E-03
BP-14-SUR	Lead-210	1.21E+00		2.27E-01	1.60E-01	6.42E-05	6.42E-03
BP-15-SUR	Lead-210	1.20E+00		2.22E-01	1.54E-01	6.42E-05	6.42E-03
BP-16-SUR	Lead-210	1.07E+00		1.97E-01	1.34E-01	6.42E-05	6.42E-03
BP-17-SUR	Lead-210	1.17E+00		2.14E-01	1.42E-01	6.42E-05	6.42E-03
BP-18-SUR	Lead-210	1.35E+00		2.34E-01	1.28E-01	6.42E-05	6.42E-03
BP-19-SUR	Lead-210	1.20E+00		2.11E-01	1.16E-01	6.42E-05	6.42E-03
BP-20-SUR	Lead-210	1.32E+00		2.37E-01	1.42E-01	6.42E-05	6.42E-03
BP-21-SUR	Lead-210	1.13E+00		2.11E-01	1.47E-01	6.42E-05	6.42E-03
BP-22-SUR	Lead-210	1.20E+00		2.21E-01	1.42E-01	6.42E-05	6.42E-03
BP-23-SUR	Lead-210	1.07E+00		1.92E-01	1.15E-01	6.42E-05	6.42E-03
BP-24-SUR	Lead-210	1.30E+00		2.31E-01	1.36E-01	6.42E-05	6.42E-03
BP-25-SUR	Lead-210	1.33E+00		2.44E-01	1.73E-01	6.42E-05	6.42E-03
BP-26-SUR	Lead-210	9.91E-01		1.96E-01	1.48E-01	6.42E-05	6.42E-03
BP-27-SUR	Lead-210	1.34E+00		2.41E-01	1.58E-01	6.42E-05	6.42E-03
BP-28-SUR	Lead-210	1.26E+00		2.31E-01	1.56E-01	6.42E-05	6.42E-03
BP-29-SUR	Lead-210	1.31E+00		2.23E-01	1.14E-01	6.42E-05	6.42E-03
BP-30-SUR	Lead-210	1.19E+00		2.08E-01	1.18E-01	6.42E-05	6.42E-03
BP-31-SUR	Lead-210	9.99E-01		1.80E-01	9.86E-02	6.42E-05	6.42E-03
BP-32-SUR	Lead-210	1.20E+00		2.19E-01	1.33E-01	6.42E-05	6.42E-03
BP-33-SUR	Lead-210	1.20E+00		2.07E-01	1.13E-01	6.42E-05	6.42E-03
BP-34-SUR	Lead-210	1.22E+00		2.17E-01	1.23E-01	6.42E-05	6.42E-03
BP-35-SUR	Lead-210	1.14E+00		1.84E-01	8.56E-02	6.42E-05	6.42E-03
BP-36-SUR	Lead-210	1.17E+00		2.63E-01	1.89E-01	6.42E-05	6.42E-03
BP-37-SUR	Lead-210	1.37E+00	L	2.14E-01	9.17E-02	6.42E-05	6.42E-03
BP-38-SUR	Lead-210	7.30E-01		2.08E-01	1.86E-01	6.42E-05	6.42E-03
BP-39-SUR	Lead-210	9.92E-01		1.66E-01	1.06E-01	6.42E-05	6.42E-03
BP-40-SUR	Lead-210	1.31E+00		2.62E-01	1.91E-01	6.42E-05	6.42E-03
BP-41-SUR	Lead-210	9.63E-01		2.35E-01	1.86E-01	6.42E-05	6.42E-03
BP-42-SUR	Lead-210	1.06E+00		2.42E-01	1.74E-01	6.42E-05	6.42E-03

Table 6.23 - Lead-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Lead-210	1.26E+00		2.51E-01	1.84E-01	6.42E-05	6.42E-03
BP-44-SUR	Lead-210	1.35E+00		2.67E-01	1.87E-01	6.42E-05	6.42E-03
BP-45-SUR	Lead-210	1.03E+00		2.11E-01	1.56E-01	6.42E-05	6.42E-03
BP-46-SUR	Lead-210	1.17E+00		2.44E-01	1.83E-01	6.42E-05	6.42E-03
BP-47-SUR	Lead-210	1.22E+00		2.49E-01	1.60E-01	6.42E-05	6.42E-03
BP-48-SUR	Lead-210	1.22E+00		2.45E-01	1.54E-01	6.42E-05	6.42E-03
BP-49-SUR	Lead-210	1.02E+00		2.25E-01	1.78E-01	6.42E-05	6.42E-03
BP-50-SUR	Lead-210	1.06E+00		2.33E-01	1.72E-01	6.42E-05	6.42E-03
BP-51-SUR	Lead-210	1.16E+00		2.20E-01	1.49E-01	6.42E-05	6.42E-03
BP-52-SUR	Lead-210	1.23E+00		2.49E-01	1.66E-01	6.42E-05	6.42E-03
BP-53-SUR	Lead-210	1.05E+00		2.24E-01	1.77E-01	6.42E-05	6.42E-03
BP-54-SUR	Lead-210	9.94E-01		2.10E-01	1.48E-01	6.42E-05	6.42E-03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Lead-210	1.04E+00		2.10E-01	1.54E-01	6.42E-05	6.42E-03
BP-4-SUB	Lead-210	9.09E-01		2.06E-01	1.87E-01	6.42E-05	6.42E-03
BP-5-SUB	Lead-210	8.93E-01		1.52E-01	9.45E-02	6.42E-05	6.42E-03
BP-9-SUB	Lead-210	1.64E+00		2.89E-01	1.53E-01	6.42E-05	6.42E-03
BP-12-SUB	Lead-210	1.05E+00		1.75E-01	9.97E-02	6.42E-05	6.42E-03
BP-13-SUB	Lead-210	1.41E+00		2.54E-01	1.38E-01	6.42E-05	6.42E-03
BP-14-SUB	Lead-210	1.20E+00		2.57E-01	1.69E-01	6.42E-05	6.42E-03
BP-16-SUB	Lead-210	1.53E+00		3.03E-01	1.72E-01	6.42E-05	6.42E-03
BP-20-SUB	Lead-210	9.33E-01		2.26E-01	1.85E-01	6.42E-05	6.42E-03
BP-23-SUB	Lead-210	8.50E-01		1.76E-01	1.43E-01	6.42E-05	6.42E-03
BP-29-SUB	Lead-210	1.30E+00		2.71E-01	1.67E-01	6.42E-05	6.42E-03
BP-34-SUB	Lead-210	1.57E+00		2.79E-01	1.58E-01	6.42E-05	6.42E-03
BP-35-SUB	Lead-210	1.41E+00		2.85E-01	1.67E-01	6.42E-05	6.42E-03
BP-38-SUB	Lead-210	1.02E+00		2.35E-01	1.81E-01	6.42E-05	6.42E-03
BP-43-SUB	Lead-210	1.29E+00		2.41E-01	1.61E-01	6.42E-05	6.42E-03
BP-45-SUB	Lead-210	1.24E+00		2.45E-01	1.70E-01	6.42E-05	6.42E-03
BP-46-SUB	Lead-210	9.40E-01		2.11E-01	1.97E-01	6.42E-05	6.42E-03
BP-48-SUB	Lead-210	8.96E-01		2.02E-01	1.78E-01	6.42E-05	6.42E-03
BP-50-SUB	Lead-210	2.38E-01		1.04E-01	1.46E-01	6.42E-05	6.42E-03
BP-51-SUB	Lead-210	1.32E+00		2.46E-01	1.52E-01	6.42E-05	6.42E-03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.24 - Lead-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Lead-212	1.43E+00		1.65E-01	2.49E-02	8.00E+01	8.00E+03
LR-2-SUR	Lead-212	1.43E+00		1.66E-01	2.39E-02	8.00E+01	8.00E+03
LR-3-SUR	Lead-212	1.63E+00		1.87E-01	2.02E-02	8.00E+01	8.00E+03
LR-4-SUR	Lead-212	1.52E+00		1.75E-01	2.04E-02	8.00E+01	8.00E+03
LR-5-SUR	Lead-212	1.62E+00		1.86E-01	1.96E-02	8.00E+01	8.00E+03
LR-6-SUR	Lead-212	1.49E+00		1.73E-01	2.56E-02	8.00E+01	8.00E+03
LR-7-SUR	Lead-212	1.59E+00		1.83E-01	1.94E-02	8.00E+01	8.00E+03
LR-8-SUR	Lead-212	1.59E+00		1.83E-01	1.92E-02	8.00E+01	8.00E+03
LR-9-SUR	Lead-212	1.61E+00		1.85E-01	2.00E-02	8.00E+01	8.00E+03
LR-10-SUR	Lead-212	1.73E+00		2.21E-01	2.23E-02	8.00E+01	8.00E+03
LR-11-SUR	Lead-212	1.69E+00		2.16E-01	2.27E-02	8.00E+01	8.00E+03
LR-12-SUR	Lead-212	1.33E+00		1.54E-01	2.56E-02	8.00E+01	8.00E+03
LR-13-SUR	Lead-212	1.41E+00		1.62E-01	2.00E-02	8.00E+01	8.00E+03
LR-14-SUR	Lead-212	1.25E+00		1.45E-01	2.46E-02	8.00E+01	8.00E+03
LR-15-SUR	Lead-212	1.60E+00		1.85E-01	2.77E-02	8.00E+01	8.00E+03
LR-16-SUR	Lead-212	1.73E+00		1.98E-01	1.93E-02	8.00E+01	8.00E+03
LR-17-SUR	Lead-212	1.48E+00		1.70E-01	2.25E-02	8.00E+01	8.00E+03
LR-18-SUR	Lead-212	1.73E+00		1.99E-01	2.01E-02	8.00E+01	8.00E+03
LR-19-SUR	Lead-212	1.63E+00		1.89E-01	2.63E-02	8.00E+01	8.00E+03
LR-20-SUR	Lead-212	1.77E+00		2.03E-01	2.13E-02	8.00E+01	8.00E+03
LR-21-SUR	Lead-212	1.58E+00		1.83E-01	2.62E-02	8.00E+01	8.00E+03
LR-22-SUR	Lead-212	1.73E+00		1.99E-01	2.07E-02	8.00E+01	8.00E+03
LR-23-SUR	Lead-212	1.58E+00		1.82E-01	2.51E-02	8.00E+01	8.00E+03
LR-24-SUR	Lead-212	1.59E+00		1.83E-01	2.02E-02	8.00E+01	8.00E+03
LR-25-SUR	Lead-212	1.52E+00		1.76E-01	2.60E-02	8.00E+01	8.00E+03
LR-26-SUR	Lead-212	1.56E+00		1.79E-01	2.20E-02	8.00E+01	8.00E+03
LR-27-SUR	Lead-212	1.53E+00		1.75E-01	2.01E-02	8.00E+01	8.00E+03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Lead-212	1.65E+00		1.90E-01	2.61E-02	8.00E+01	8.00E+03
LR-4-SUB	Lead-212	1.74E+00		2.00E-01	1.91E-02	8.00E+01	8.00E+03
LR-9-SUB	Lead-212	1.83E+00		2.10E-01	2.03E-02	8.00E+01	8.00E+03
LR-13-SUB	Lead-212	1.71E+00		1.97E-01	2.04E-02	8.00E+01	8.00E+03
LR-15-SUB	Lead-212	2.19E+00		2.79E-01	2.51E-02	8.00E+01	8.00E+03
LR-18-SUB	Lead-212	1.89E+00		2.41E-01	2.31E-02	8.00E+01	8.00E+03
LR-19-SUB	Lead-212	2.08E+00		2.66E-01	2.30E-02	8.00E+01	8.00E+03
LR-23-SUB	Lead-212	2.48E+00		3.16E-01	2.56E-02	8.00E+01	8.00E+03
LR-24-SUB	Lead-212	1.86E+00		2.37E-01	2.15E-02	8.00E+01	8.00E+03
LR-26-SUB	Lead-212	2.08E+00		2.65E-01	2.24E-02	8.00E+01	8.00E+03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Lead-212	1.22E+00		1.41E-01	1.69E-02	8.00E+01	8.00E+03
RP-2-SUR	Lead-212	1.23E+00		1.41E-01	1.72E-02	8.00E+01	8.00E+03
RP-3-SUR	Lead-212	1.47E+00		1.88E-01	1.94E-02	8.00E+01	8.00E+03
RP-4-SUR	Lead-212	1.16E+00		1.34E-01	1.68E-02	8.00E+01	8.00E+03
RP-5-SUR	Lead-212	1.09E+00		1.26E-01	2.16E-02	8.00E+01	8.00E+03
RP-6-SUR	Lead-212	1.09E+00		1.27E-01	2.23E-02	8.00E+01	8.00E+03
RP-7-SUR	Lead-212	1.48E+00		1.89E-01	1.94E-02	8.00E+01	8.00E+03
RP-8-SUR	Lead-212	1.51E+00		1.93E-01	2.03E-02	8.00E+01	8.00E+03
RP-9-SUR	Lead-212	1.32E+00		1.39E-01	1.81E-02	8.00E+01	8.00E+03
RP-10-SUR	Lead-212	1.19E+00		1.38E-01	2.17E-02	8.00E+01	8.00E+03
RP-11-SUR	Lead-212	1.56E+00		1.99E-01	2.02E-02	8.00E+01	8.00E+03
RP-12-SUR	Lead-212	1.20E+00		1.38E-01	1.63E-02	8.00E+01	8.00E+03
RP-13-SUR	Lead-212	1.15E+00		1.32E-01	1.61E-02	8.00E+01	8.00E+03
RP-14-SUR	Lead-212	1.08E+00		1.26E-01	2.10E-02	8.00E+01	8.00E+03
RP-15-SUR	Lead-212	1.21E+00		1.39E-01	1.67E-02	8.00E+01	8.00E+03
RP-16-SUR	Lead-212	1.06E+00		1.23E-01	2.11E-02	8.00E+01	8.00E+03
RP-17-SUR	Lead-212	1.09E+00		1.27E-01	2.10E-02	8.00E+01	8.00E+03
RP-18-SUR	Lead-212	1.14E+00		1.33E-01	2.25E-02	8.00E+01	8.00E+03
RP-19-SUR	Lead-212	1.29E+00		1.49E-01	1.75E-02	8.00E+01	8.00E+03
RP-20-SUR	Lead-212	1.69E+00		2.15E-01	2.11E-02	8.00E+01	8.00E+03
RP-21-SUR	Lead-212	1.18E+00		1.36E-01	1.69E-02	8.00E+01	8.00E+03

Table 6.24 - Lead-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Lead-212	1.20E+00		1.38E-01	1.70E-02	8.00E+01	8.00E+03
RP-23-SUR	Lead-212	1.50E+00		1.91E-01	2.21E-02	8.00E+01	8.00E+03
RP-24-SUR	Lead-212	1.14E+00		1.32E-01	2.07E-02	8.00E+01	8.00E+03
RP-25-SUR	Lead-212	1.13E+00		1.32E-01	2.30E-02	8.00E+01	8.00E+03
RP-26-SUR	Lead-212	1.17E+00		1.36E-01	2.22E-02	8.00E+01	8.00E+03
RP-27-SUR	Lead-212	1.37E+00		1.57E-01	1.82E-02	8.00E+01	8.00E+03
RP-28-SUR	Lead-212	1.40E+00		1.61E-01	1.85E-02	8.00E+01	8.00E+03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Lead-212	1.17E+00		1.34E-01	1.69E-02	8.00E+01	8.00E+03
RP-5-SUB	Lead-212	1.36E+00		1.56E-01	1.84E-02	8.00E+01	8.00E+03
RP-7-SUB	Lead-212	1.37E+00		1.57E-01	1.83E-02	8.00E+01	8.00E+03
RP-12-SUB	Lead-212	1.16E+00		1.33E-01	1.63E-02	8.00E+01	8.00E+03
RP-13-SUB	Lead-212	1.38E+00		1.58E-01	1.79E-02	8.00E+01	8.00E+03
RP-17-SUB	Lead-212	1.35E+00		1.55E-01	1.97E-02	8.00E+01	8.00E+03
RP-18-SUB	Lead-212	1.52E+00		1.75E-01	1.84E-02	8.00E+01	8.00E+03
RP-19-SUB	Lead-212	1.43E+00		1.65E-01	1.84E-02	8.00E+01	8.00E+03
RP-20-SUB	Lead-212	1.42E+00		1.63E-01	1.82E-02	8.00E+01	8.00E+03
RP-28-SUB	Lead-212	1.27E+00		1.48E-01	2.30E-02	8.00E+01	8.00E+03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Lead-212	2.09E+00		2.39E-01	2.17E-02	8.00E+01	8.00E+03
BP-2-SUR	Lead-212	2.13E+00		2.45E-01	2.19E-02	8.00E+01	8.00E+03
BP-3-SUR	Lead-212	2.05E+00		2.35E-01	2.49E-02	8.00E+01	8.00E+03
BP-4-SUR	Lead-212	2.20E+00		2.54E-01	2.98E-02	8.00E+01	8.00E+03
BP-5-SUR	Lead-212	2.25E+00		2.59E-01	2.96E-02	8.00E+01	8.00E+03
BP-6-SUR	Lead-212	2.28E+00		2.62E-01	3.01E-02	8.00E+01	8.00E+03
BP-7-SUR	Lead-212	2.52E+00		2.88E-01	2.40E-02	8.00E+01	8.00E+03
BP-8-SUR	Lead-212	2.22E+00		2.55E-01	2.97E-02	8.00E+01	8.00E+03
BP-9-SUR	Lead-212	2.19E+00		2.53E-01	2.99E-02	8.00E+01	8.00E+03
BP-10-SUR	Lead-212	2.24E+00		2.58E-01	3.01E-02	8.00E+01	8.00E+03
BP-11-SUR	Lead-212	2.15E+00		2.48E-01	2.97E-02	8.00E+01	8.00E+03
BP-12-SUR	Lead-212	2.18E+00		2.50E-01	2.47E-02	8.00E+01	8.00E+03
BP-13-SUR	Lead-212	2.26E+00		2.36E-01	2.54E-02	8.00E+01	8.00E+03
BP-14-SUR	Lead-212	1.94E+00		2.22E-01	2.22E-02	8.00E+01	8.00E+03
BP-15-SUR	Lead-212	2.14E+00		2.45E-01	2.29E-02	8.00E+01	8.00E+03
BP-16-SUR	Lead-212	1.95E+00		2.25E-01	2.91E-02	8.00E+01	8.00E+03
BP-17-SUR	Lead-212	2.19E+00		2.52E-01	2.35E-02	8.00E+01	8.00E+03
BP-18-SUR	Lead-212	2.06E+00		2.37E-01	2.91E-02	8.00E+01	8.00E+03
BP-19-SUR	Lead-212	2.30E+00		2.40E-01	2.20E-02	8.00E+01	8.00E+03
BP-20-SUR	Lead-212	2.38E+00		2.73E-01	2.43E-02	8.00E+01	8.00E+03
BP-21-SUR	Lead-212	2.17E+00		2.50E-01	3.06E-02	8.00E+01	8.00E+03
BP-22-SUR	Lead-212	2.30E+00		2.41E-01	2.24E-02	8.00E+01	8.00E+03
BP-23-SUR	Lead-212	2.26E+00		2.37E-01	2.32E-02	8.00E+01	8.00E+03
BP-24-SUR	Lead-212	2.34E+00		2.44E-01	2.30E-02	8.00E+01	8.00E+03
BP-25-SUR	Lead-212	2.06E+00		2.15E-01	2.37E-02	8.00E+01	8.00E+03
BP-26-SUR	Lead-212	2.13E+00		2.23E-01	2.17E-02	8.00E+01	8.00E+03
BP-27-SUR	Lead-212	1.97E+00		2.08E-01	2.87E-02	8.00E+01	8.00E+03
BP-28-SUR	Lead-212	1.94E+00		2.03E-01	2.16E-02	8.00E+01	8.00E+03
BP-29-SUR	Lead-212	1.88E+00		1.98E-01	2.81E-02	8.00E+01	8.00E+03
BP-30-SUR	Lead-212	2.19E+00		2.79E-01	2.27E-02	8.00E+01	8.00E+03
BP-31-SUR	Lead-212	2.05E+00		2.16E-01	3.05E-02	8.00E+01	8.00E+03
BP-32-SUR	Lead-212	2.19E+00		2.30E-01	3.06E-02	8.00E+01	8.00E+03
BP-33-SUR	Lead-212	2.37E+00		3.01E-01	2.37E-02	8.00E+01	8.00E+03
BP-34-SUR	Lead-212	2.38E+00		2.49E-01	2.35E-02	8.00E+01	8.00E+03
BP-35-SUR	Lead-212	2.15E+00		2.73E-01	2.23E-02	8.00E+01	8.00E+03
BP-36-SUR	Lead-212	2.08E+00		2.65E-01	2.28E-02	8.00E+01	8.00E+03
BP-37-SUR	Lead-212	1.96E+00		2.50E-01	2.53E-02	8.00E+01	8.00E+03
BP-38-SUR	Lead-212	1.88E+00		2.40E-01	2.20E-02	8.00E+01	8.00E+03
BP-39-SUR	Lead-212	1.82E+00		2.33E-01	2.18E-02	8.00E+01	8.00E+03
BP-40-SUR	Lead-212	1.92E+00		2.44E-01	2.22E-02	8.00E+01	8.00E+03
BP-41-SUR	Lead-212	2.02E+00		2.12E-01	2.32E-02	8.00E+01	8.00E+03
BP-42-SUR	Lead-212	2.03E+00		2.58E-01	2.25E-02	8.00E+01	8.00E+03

Table 6.24 - Lead-212 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Lead-212	2.09E+00		2.18E-01	2.21E-02	8.00E+01	8.00E+03
BP-44-SUR	Lead-212	2.01E+00		2.56E-01	2.24E-02	8.00E+01	8.00E+03
BP-45-SUR	Lead-212	1.98E+00		2.07E-01	2.27E-02	8.00E+01	8.00E+03
BP-46-SUR	Lead-212	2.04E+00		2.60E-01	2.34E-02	8.00E+01	8.00E+03
BP-47-SUR	Lead-212	2.26E+00		2.37E-01	2.11E-02	8.00E+01	8.00E+03
BP-48-SUR	Lead-212	2.29E+00		2.92E-01	2.57E-02	8.00E+01	8.00E+03
BP-49-SUR	Lead-212	2.30E+00		2.40E-01	1.93E-02	8.00E+01	8.00E+03
BP-50-SUR	Lead-212	2.10E+00		2.67E-01	2.48E-02	8.00E+01	8.00E+03
BP-51-SUR	Lead-212	2.11E+00		2.21E-01	1.87E-02	8.00E+01	8.00E+03
BP-52-SUR	Lead-212	1.82E+00		1.90E-01	1.83E-02	8.00E+01	8.00E+03
BP-53-SUR	Lead-212	1.71E+00		2.18E-01	2.41E-02	8.00E+01	8.00E+03
BP-54-SUR	Lead-212	1.62E+00		1.69E-01	1.78E-02	8.00E+01	8.00E+03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Lead-212	1.87E+00		1.96E-01	1.94E-02	8.00E+01	8.00E+03
BP-4-SUB	Lead-212	2.08E+00		2.64E-01	2.10E-02	8.00E+01	8.00E+03
BP-5-SUB	Lead-212	1.81E+00		2.31E-01	2.37E-02	8.00E+01	8.00E+03
BP-9-SUB	Lead-212	2.20E+00		2.31E-01	2.41E-02	8.00E+01	8.00E+03
BP-12-SUB	Lead-212	2.17E+00		2.76E-01	2.43E-02	8.00E+01	8.00E+03
BP-13-SUB	Lead-212	2.44E+00		2.56E-01	2.19E-02	8.00E+01	8.00E+03
BP-14-SUB	Lead-212	1.63E+00		2.08E-01	2.32E-02	8.00E+01	8.00E+03
BP-16-SUB	Lead-212	2.38E+00		2.49E-01	1.87E-02	8.00E+01	8.00E+03
BP-20-SUB	Lead-212	1.71E+00		2.19E-01	2.30E-02	8.00E+01	8.00E+03
BP-23-SUB	Lead-212	1.98E+00		2.07E-01	1.77E-02	8.00E+01	8.00E+03
BP-29-SUB	Lead-212	1.83E+00		4.35E-01	3.80E-01	8.00E+01	8.00E+03
BP-34-SUB	Lead-212	2.54E+00		3.23E-01	2.54E-02	8.00E+01	8.00E+03
BP-35-SUB	Lead-212	2.46E+00		2.57E-01	1.90E-02	8.00E+01	8.00E+03
BP-38-SUB	Lead-212	1.82E+00		2.32E-01	2.43E-02	8.00E+01	8.00E+03
BP-43-SUB	Lead-212	1.58E+00		1.69E-01	3.67E-02	8.00E+01	8.00E+03
BP-45-SUB	Lead-212	2.33E+00		2.96E-01	2.29E-02	8.00E+01	8.00E+03
BP-46-SUB	Lead-212	2.53E+00		2.64E-01	2.48E-02	8.00E+01	8.00E+03
BP-48-SUB	Lead-212	1.91E+00		2.44E-01	2.30E-02	8.00E+01	8.00E+03
BP-50-SUB	Lead-212	2.05E+00		2.14E-01	2.17E-02	8.00E+01	8.00E+03
BP-51-SUB	Lead-212	2.67E+00		3.40E-01	2.52E-02	8.00E+01	8.00E+03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.25 - Lead-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Lead-214	1.22E+00		1.39E-01	1.76E-02	3.49E+04	3.49E+06
LR-2-SUR	Lead-214	1.23E+00		1.40E-01	1.90E-02	3.49E+04	3.49E+06
LR-3-SUR	Lead-214	1.27E+00		1.45E-01	1.99E-02	3.49E+04	3.49E+06
LR-4-SUR	Lead-214	1.16E+00		1.33E-01	2.05E-02	3.49E+04	3.49E+06
LR-5-SUR	Lead-214	1.28E+00		1.45E-01	1.88E-02	3.49E+04	3.49E+06
LR-6-SUR	Lead-214	1.30E+00		1.48E-01	2.04E-02	3.49E+04	3.49E+06
LR-7-SUR	Lead-214	1.13E+00		1.28E-01	1.91E-02	3.49E+04	3.49E+06
LR-8-SUR	Lead-214	1.17E+00		1.34E-01	2.02E-02	3.49E+04	3.49E+06
LR-9-SUR	Lead-214	1.18E+00		1.35E-01	2.09E-02	3.49E+04	3.49E+06
LR-10-SUR	Lead-214	1.05E+00		1.31E-01	1.87E-02	3.49E+04	3.49E+06
LR-11-SUR	Lead-214	1.10E+00		1.36E-01	1.94E-02	3.49E+04	3.49E+06
LR-12-SUR	Lead-214	1.12E+00		1.28E-01	1.88E-02	3.49E+04	3.49E+06
LR-13-SUR	Lead-214	1.11E+00		1.27E-01	1.96E-02	3.49E+04	3.49E+06
LR-14-SUR	Lead-214	1.02E+00		1.16E-01	1.93E-02	3.49E+04	3.49E+06
LR-15-SUR	Lead-214	1.15E+00		1.31E-01	2.02E-02	3.49E+04	3.49E+06
LR-16-SUR	Lead-214	1.07E+00		1.22E-01	1.93E-02	3.49E+04	3.49E+06
LR-17-SUR	Lead-214	1.04E+00		1.18E-01	1.80E-02	3.49E+04	3.49E+06
LR-18-SUR	Lead-214	1.17E+00		1.33E-01	1.81E-02	3.49E+04	3.49E+06
LR-19-SUR	Lead-214	1.25E+00		1.42E-01	2.03E-02	3.49E+04	3.49E+06
LR-20-SUR	Lead-214	1.25E+00		1.42E-01	2.09E-02	3.49E+04	3.49E+06
LR-21-SUR	Lead-214	1.23E+00		1.40E-01	2.13E-02	3.49E+04	3.49E+06
LR-22-SUR	Lead-214	1.23E+00		1.40E-01	2.13E-02	3.49E+04	3.49E+06
LR-23-SUR	Lead-214	1.18E+00		1.34E-01	1.89E-02	3.49E+04	3.49E+06
LR-24-SUR	Lead-214	1.18E+00		1.35E-01	1.95E-02	3.49E+04	3.49E+06
LR-25-SUR	Lead-214	1.24E+00		1.41E-01	2.00E-02	3.49E+04	3.49E+06
LR-26-SUR	Lead-214	1.20E+00		1.37E-01	1.94E-02	3.49E+04	3.49E+06
LR-27-SUR	Lead-214	1.17E+00		1.33E-01	1.89E-02	3.49E+04	3.49E+06
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Lead-214	1.24E+00		1.40E-01	1.88E-02	3.49E+04	3.49E+06
LR-4-SUB	Lead-214	1.10E+00		1.25E-01	1.82E-02	3.49E+04	3.49E+06
LR-9-SUB	Lead-214	9.97E-01		1.14E-01	1.98E-02	3.49E+04	3.49E+06
LR-13-SUB	Lead-214	1.19E+00		1.36E-01	1.89E-02	3.49E+04	3.49E+06
LR-15-SUB	Lead-214	1.17E+00		1.46E-01	2.12E-02	3.49E+04	3.49E+06
LR-18-SUB	Lead-214	1.11E+00		1.38E-01	1.99E-02	3.49E+04	3.49E+06
LR-19-SUB	Lead-214	1.21E+00		1.50E-01	1.88E-02	3.49E+04	3.49E+06
LR-23-SUB	Lead-214	1.28E+00		1.58E-01	1.86E-02	3.49E+04	3.49E+06
LR-24-SUB	Lead-214	1.15E+00		1.42E-01	1.77E-02	3.49E+04	3.49E+06
LR-26-SUB	Lead-214	9.92E-01		1.24E-01	1.94E-02	3.49E+04	3.49E+06
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Lead-214	7.29E-01		8.33E-02	1.42E-02	3.49E+04	3.49E+06
RP-2-SUR	Lead-214	7.43E-01		8.59E-02	1.74E-02	3.49E+04	3.49E+06
RP-3-SUR	Lead-214	6.53E-01		8.18E-02	1.46E-02	3.49E+04	3.49E+06
RP-4-SUR	Lead-214	7.43E-01		8.57E-02	1.67E-02	3.49E+04	3.49E+06
RP-5-SUR	Lead-214	7.84E-01		9.00E-02	1.65E-02	3.49E+04	3.49E+06
RP-6-SUR	Lead-214	8.12E-01		9.34E-02	1.72E-02	3.49E+04	3.49E+06
RP-7-SUR	Lead-214	7.33E-01		9.18E-02	1.55E-02	3.49E+04	3.49E+06
RP-8-SUR	Lead-214	7.81E-01		9.74E-02	1.50E-02	3.49E+04	3.49E+06
RP-9-SUR	Lead-214	7.79E-01		8.20E-02	1.31E-02	3.49E+04	3.49E+06
RP-10-SUR	Lead-214	8.69E-01		9.83E-02	1.28E-02	3.49E+04	3.49E+06
RP-11-SUR	Lead-214	7.81E-01		9.75E-02	1.59E-02	3.49E+04	3.49E+06
RP-12-SUR	Lead-214	7.19E-01		8.24E-02	1.50E-02	3.49E+04	3.49E+06
RP-13-SUR	Lead-214	7.15E-01		8.23E-02	1.55E-02	3.49E+04	3.49E+06
RP-14-SUR	Lead-214	7.98E-01		9.15E-02	1.60E-02	3.49E+04	3.49E+06
RP-15-SUR	Lead-214	7.87E-01		8.99E-02	1.49E-02	3.49E+04	3.49E+06
RP-16-SUR	Lead-214	7.99E-01		9.17E-02	1.62E-02	3.49E+04	3.49E+06
RP-17-SUR	Lead-214	8.26E-01		9.42E-02	1.49E-02	3.49E+04	3.49E+06
RP-18-SUR	Lead-214	8.80E-01		1.01E-01	1.62E-02	3.49E+04	3.49E+06
RP-19-SUR	Lead-214	8.90E-01		1.01E-01	1.61E-02	3.49E+04	3.49E+06
RP-20-SUR	Lead-214	7.81E-01		9.79E-02	1.69E-02	3.49E+04	3.49E+06
RP-21-SUR	Lead-214	6.96E-01		7.98E-02	1.46E-02	3.49E+04	3.49E+06

Table 6.25 - Lead-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Lead-214	7.36E-01		8.42E-02	1.44E-02	3.49E+04	3.49E+06
RP-23-SUR	Lead-214	7.50E-01		9.37E-02	1.50E-02	3.49E+04	3.49E+06
RP-24-SUR	Lead-214	7.83E-01		8.99E-02	1.65E-02	3.49E+04	3.49E+06
RP-25-SUR	Lead-214	8.50E-01		9.76E-02	1.72E-02	3.49E+04	3.49E+06
RP-26-SUR	Lead-214	8.47E-01		9.73E-02	1.73E-02	3.49E+04	3.49E+06
RP-27-SUR	Lead-214	8.81E-01		1.01E-01	1.77E-02	3.49E+04	3.49E+06
RP-28-SUR	Lead-214	8.73E-01		9.99E-02	1.66E-02	3.49E+04	3.49E+06
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Lead-214	6.95E-01		8.04E-02	1.68E-02	3.49E+04	3.49E+06
RP-5-SUB	Lead-214	8.31E-01		9.56E-02	1.78E-02	3.49E+04	3.49E+06
RP-7-SUB	Lead-214	8.33E-01		9.57E-02	1.72E-02	3.49E+04	3.49E+06
RP-12-SUB	Lead-214	6.86E-01		7.86E-02	1.40E-02	3.49E+04	3.49E+06
RP-13-SUB	Lead-214	8.26E-01		9.43E-02	1.53E-02	3.49E+04	3.49E+06
RP-17-SUB	Lead-214	8.63E-01		9.90E-02	1.72E-02	3.49E+04	3.49E+06
RP-18-SUB	Lead-214	9.06E-01		1.04E-01	1.78E-02	3.49E+04	3.49E+06
RP-19-SUB	Lead-214	8.58E-01		9.79E-02	1.56E-02	3.49E+04	3.49E+06
RP-20-SUB	Lead-214	8.58E-01		9.83E-02	1.65E-02	3.49E+04	3.49E+06
RP-28-SUB	Lead-214	8.28E-01		9.51E-02	1.71E-02	3.49E+04	3.49E+06
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Lead-214	1.43E+00		1.62E-01	2.01E-02	3.49E+04	3.49E+06
BP-2-SUR	Lead-214	1.47E+00		1.67E-01	2.11E-02	3.49E+04	3.49E+06
BP-3-SUR	Lead-214	1.46E+00		1.65E-01	1.94E-02	3.49E+04	3.49E+06
BP-4-SUR	Lead-214	1.62E+00		1.83E-01	2.26E-02	3.49E+04	3.49E+06
BP-5-SUR	Lead-214	1.61E+00		1.82E-01	2.04E-02	3.49E+04	3.49E+06
BP-6-SUR	Lead-214	1.68E+00		1.90E-01	2.18E-02	3.49E+04	3.49E+06
BP-7-SUR	Lead-214	1.64E+00		1.86E-01	2.16E-02	3.49E+04	3.49E+06
BP-8-SUR	Lead-214	1.64E+00		1.85E-01	2.08E-02	3.49E+04	3.49E+06
BP-9-SUR	Lead-214	1.66E+00		1.88E-01	2.19E-02	3.49E+04	3.49E+06
BP-10-SUR	Lead-214	1.64E+00		1.85E-01	2.17E-02	3.49E+04	3.49E+06
BP-11-SUR	Lead-214	1.59E+00		1.81E-01	2.27E-02	3.49E+04	3.49E+06
BP-12-SUR	Lead-214	1.53E+00		1.74E-01	2.02E-02	3.49E+04	3.49E+06
BP-13-SUR	Lead-214	1.60E+00		1.68E-01	2.07E-02	3.49E+04	3.49E+06
BP-14-SUR	Lead-214	1.39E+00		1.58E-01	1.96E-02	3.49E+04	3.49E+06
BP-15-SUR	Lead-214	1.46E+00		1.66E-01	2.22E-02	3.49E+04	3.49E+06
BP-16-SUR	Lead-214	1.48E+00		1.68E-01	2.08E-02	3.49E+04	3.49E+06
BP-17-SUR	Lead-214	1.46E+00		1.66E-01	2.22E-02	3.49E+04	3.49E+06
BP-18-SUR	Lead-214	1.47E+00		1.67E-01	2.04E-02	3.49E+04	3.49E+06
BP-19-SUR	Lead-214	1.54E+00		1.61E-01	2.12E-02	3.49E+04	3.49E+06
BP-20-SUR	Lead-214	1.61E+00		1.82E-01	2.07E-02	3.49E+04	3.49E+06
BP-21-SUR	Lead-214	1.57E+00		1.78E-01	2.04E-02	3.49E+04	3.49E+06
BP-22-SUR	Lead-214	1.56E+00		1.63E-01	2.28E-02	3.49E+04	3.49E+06
BP-23-SUR	Lead-214	1.55E+00		1.62E-01	2.27E-02	3.49E+04	3.49E+06
BP-24-SUR	Lead-214	1.52E+00		1.59E-01	2.19E-02	3.49E+04	3.49E+06
BP-25-SUR	Lead-214	1.46E+00		1.53E-01	1.97E-02	3.49E+04	3.49E+06
BP-26-SUR	Lead-214	1.38E+00		1.45E-01	2.20E-02	3.49E+04	3.49E+06
BP-27-SUR	Lead-214	1.40E+00		1.47E-01	2.01E-02	3.49E+04	3.49E+06
BP-28-SUR	Lead-214	1.36E+00		1.43E-01	2.16E-02	3.49E+04	3.49E+06
BP-29-SUR	Lead-214	1.31E+00		1.38E-01	2.08E-02	3.49E+04	3.49E+06
BP-30-SUR	Lead-214	1.46E+00		1.80E-01	2.10E-02	3.49E+04	3.49E+06
BP-31-SUR	Lead-214	1.40E+00		1.47E-01	2.12E-02	3.49E+04	3.49E+06
BP-32-SUR	Lead-214	1.45E+00		1.53E-01	2.22E-02	3.49E+04	3.49E+06
BP-33-SUR	Lead-214	1.45E+00		1.80E-01	2.06E-02	3.49E+04	3.49E+06
BP-34-SUR	Lead-214	1.48E+00		1.55E-01	1.96E-02	3.49E+04	3.49E+06
BP-35-SUR	Lead-214	1.28E+00		1.58E-01	2.13E-02	3.49E+04	3.49E+06
BP-36-SUR	Lead-214	1.27E+00		1.57E-01	1.89E-02	3.49E+04	3.49E+06
BP-37-SUR	Lead-214	1.23E+00		1.53E-01	2.00E-02	3.49E+04	3.49E+06
BP-38-SUR	Lead-214	1.10E+00		1.37E-01	2.07E-02	3.49E+04	3.49E+06
BP-39-SUR	Lead-214	1.07E+00		1.33E-01	1.81E-02	3.49E+04	3.49E+06
BP-40-SUR	Lead-214	1.16E+00		1.44E-01	1.97E-02	3.49E+04	3.49E+06
BP-41-SUR	Lead-214	1.24E+00		1.31E-01	2.13E-02	3.49E+04	3.49E+06
BP-42-SUR	Lead-214	1.23E+00		1.52E-01	1.93E-02	3.49E+04	3.49E+06

Table 6.25 - Lead-214 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Lead-214	1.25E+00		1.31E-01	2.01E-02	3.49E+04	3.49E+06
BP-44-SUR	Lead-214	1.23E+00		1.53E-01	1.97E-02	3.49E+04	3.49E+06
BP-45-SUR	Lead-214	1.20E+00		1.27E-01	2.03E-02	3.49E+04	3.49E+06
BP-46-SUR	Lead-214	1.21E+00		1.50E-01	2.05E-02	3.49E+04	3.49E+06
BP-47-SUR	Lead-214	1.39E+00		1.45E-01	1.85E-02	3.49E+04	3.49E+06
BP-48-SUR	Lead-214	1.31E+00		1.63E-01	2.22E-02	3.49E+04	3.49E+06
BP-49-SUR	Lead-214	1.27E+00		1.33E-01	1.78E-02	3.49E+04	3.49E+06
BP-50-SUR	Lead-214	1.25E+00		1.55E-01	2.07E-02	3.49E+04	3.49E+06
BP-51-SUR	Lead-214	1.27E+00		1.32E-01	1.64E-02	3.49E+04	3.49E+06
BP-52-SUR	Lead-214	1.10E+00		1.15E-01	1.71E-02	3.49E+04	3.49E+06
BP-53-SUR	Lead-214	1.03E+00		1.28E-01	1.96E-02	3.49E+04	3.49E+06
BP-54-SUR	Lead-214	9.47E-01		9.96E-02	1.54E-02	3.49E+04	3.49E+06
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Lead-214	9.82E-01		1.04E-01	1.69E-02	3.49E+04	3.49E+06
BP-4-SUB	Lead-214	1.04E+00		1.30E-01	1.98E-02	3.49E+04	3.49E+06
BP-5-SUB	Lead-214	1.04E+00		1.29E-01	1.87E-02	3.49E+04	3.49E+06
BP-9-SUB	Lead-214	1.13E+00		1.18E-01	1.58E-02	3.49E+04	3.49E+06
BP-12-SUB	Lead-214	1.18E+00		1.47E-01	1.86E-02	3.49E+04	3.49E+06
BP-13-SUB	Lead-214	1.26E+00		1.32E-01	1.92E-02	3.49E+04	3.49E+06
BP-14-SUB	Lead-214	1.05E+00		1.31E-01	1.89E-02	3.49E+04	3.49E+06
BP-16-SUB	Lead-214	1.18E+00		1.24E-01	1.76E-02	3.49E+04	3.49E+06
BP-20-SUB	Lead-214	9.08E-01		1.14E-01	1.91E-02	3.49E+04	3.49E+06
BP-23-SUB	Lead-214	1.03E+00		1.08E-01	1.56E-02	3.49E+04	3.49E+06
BP-29-SUB	Lead-214	1.01E+00		2.62E-01	9.64E-02	3.49E+04	3.49E+06
BP-34-SUB	Lead-214	1.24E+00		1.54E-01	2.12E-02	3.49E+04	3.49E+06
BP-35-SUB	Lead-214	1.19E+00		1.25E-01	1.79E-02	3.49E+04	3.49E+06
BP-38-SUB	Lead-214	1.00E+00		1.25E-01	2.13E-02	3.49E+04	3.49E+06
BP-43-SUB	Lead-214	1.05E+00		1.12E-01	2.17E-02	3.49E+04	3.49E+06
BP-45-SUB	Lead-214	1.16E+00		1.43E-01	2.02E-02	3.49E+04	3.49E+06
BP-46-SUB	Lead-214	1.22E+00		1.29E-01	2.22E-02	3.49E+04	3.49E+06
BP-48-SUB	Lead-214	9.54E-01		1.19E-01	1.93E-02	3.49E+04	3.49E+06
BP-50-SUB	Lead-214	1.07E+00		1.13E-01	1.89E-02	3.49E+04	3.49E+06
BP-51-SUB	Lead-214	1.33E+00		1.66E-01	2.11E-02	3.49E+04	3.49E+06

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.26 - Neptunium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Neptunium-236	1.31E-02	USK	1.43E-02	3.55E-02	2.81E-03	2.81E-01
LR-2-SUR	Neptunium-236	-2.86E-04	USK	5.65E-02	3.54E-02	2.81E-03	2.81E-01
LR-3-SUR	Neptunium-236	-9.41E-03	USK	2.42E-02	3.49E-02	2.81E-03	2.81E-01
LR-4-SUR	Neptunium-236	1.01E-02	SK	9.22E-03	3.52E-02	2.81E-03	2.81E-01
LR-5-SUR	Neptunium-236	1.32E-04	USK	1.85E-02	3.06E-02	2.81E-03	2.81E-01
LR-6-SUR	Neptunium-236	-9.65E-03	USK	2.55E-02	3.67E-02	2.81E-03	2.81E-01
LR-7-SUR	Neptunium-236	-3.49E-04	USK	7.29E-02	3.53E-02	2.81E-03	2.81E-01
LR-8-SUR	Neptunium-236	-6.85E-03	USK	2.56E-02	3.52E-02	2.81E-03	2.81E-01
LR-9-SUR	Neptunium-236	-7.70E-03	USK	2.60E-02	3.61E-02	2.81E-03	2.81E-01
LR-10-SUR	Neptunium-236	1.39E-02	USK	1.49E-02	3.57E-02	2.81E-03	2.81E-01
LR-11-SUR	Neptunium-236	-1.35E-02	USK	2.22E-02	3.62E-02	2.81E-03	2.81E-01
LR-12-SUR	Neptunium-236	1.54E-02	SK	1.49E-02	3.46E-02	2.81E-03	2.81E-01
LR-13-SUR	Neptunium-236	1.49E-02	USK	2.10E-02	3.05E-02	2.81E-03	2.81E-01
LR-14-SUR	Neptunium-236	9.10E-03	USK	9.51E-03	3.32E-02	2.81E-03	2.81E-01
LR-15-SUR	Neptunium-236	7.57E-03	USK	8.70E-03	3.48E-02	2.81E-03	2.81E-01
LR-16-SUR	Neptunium-236	1.63E-02	SK	1.61E-02	3.44E-02	2.81E-03	2.81E-01
LR-17-SUR	Neptunium-236	3.02E-03	USK	3.28E-03	3.25E-02	2.81E-03	2.81E-01
LR-18-SUR	Neptunium-236	-1.13E-02	USK	2.18E-02	3.58E-02	2.81E-03	2.81E-01
LR-19-SUR	Neptunium-236	3.45E-03	USK	4.50E-03	3.42E-02	2.81E-03	2.81E-01
LR-20-SUR	Neptunium-236	-6.04E-03	USK	2.28E-02	3.74E-02	2.81E-03	2.81E-01
LR-21-SUR	Neptunium-236	-1.67E-02	USK	2.26E-02	3.72E-02	2.81E-03	2.81E-01
LR-22-SUR	Neptunium-236	1.88E-02	SK	1.66E-02	3.66E-02	2.81E-03	2.81E-01
LR-23-SUR	Neptunium-236	1.64E-02	USK	1.65E-02	3.12E-02	2.81E-03	2.81E-01
LR-24-SUR	Neptunium-236	-1.49E-03	USK	1.95E-02	3.22E-02	2.81E-03	2.81E-01
LR-25-SUR	Neptunium-236	-4.62E-03	USK	1.64E-02	2.72E-02	2.81E-03	2.81E-01
LR-26-SUR	Neptunium-236	-1.26E-02	USK	2.18E-02	3.59E-02	2.81E-03	2.81E-01
LR-27-SUR	Neptunium-236	2.13E-02	SK	1.56E-02	3.50E-02	2.81E-03	2.81E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Neptunium-236	1.78E-02	SK	1.54E-02	3.65E-02	2.81E-03	2.81E-01
LR-4-SUB	Neptunium-236	2.04E-02	SK	1.55E-02	3.45E-02	2.81E-03	2.81E-01
LR-9-SUB	Neptunium-236	9.38E-03	SK	8.03E-03	3.32E-02	2.81E-03	2.81E-01
LR-13-SUB	Neptunium-236	8.93E-03	SK	8.37E-03	3.61E-02	2.81E-03	2.81E-01
LR-15-SUB	Neptunium-236	9.96E-03	USK	1.61E-02	3.77E-02	2.81E-03	2.81E-01
LR-18-SUB	Neptunium-236	9.67E-03	SK	9.13E-03	3.69E-02	2.81E-03	2.81E-01
LR-19-SUB	Neptunium-236	-3.79E-03	USK	2.31E-02	3.71E-02	2.81E-03	2.81E-01
LR-23-SUB	Neptunium-236	7.42E-03	SK	7.34E-03	3.58E-02	2.81E-03	2.81E-01
LR-24-SUB	Neptunium-236	-8.18E-03	USK	2.78E-02	3.52E-02	2.81E-03	2.81E-01
LR-26-SUB	Neptunium-236	4.09E-04	USK	2.15E-02	3.55E-02	2.81E-03	2.81E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Neptunium-236	2.00E-02	SK	1.79E-02	2.67E-02	2.81E-03	2.81E-01
RP-2-SUR	Neptunium-236	-3.43E-03	USK	1.38E-02	2.25E-02	2.81E-03	2.81E-01
RP-3-SUR	Neptunium-236	-1.57E-02	USK	1.73E-02	2.79E-02	2.81E-03	2.81E-01
RP-4-SUR	Neptunium-236	-1.91E-04	USK	2.34E-02	2.95E-02	2.81E-03	2.81E-01
RP-5-SUR	Neptunium-236	4.94E-03	USK	8.38E-03	3.00E-02	2.81E-03	2.81E-01
RP-6-SUR	Neptunium-236	2.03E-03	USK	1.83E-02	3.03E-02	2.81E-03	2.81E-01
RP-7-SUR	Neptunium-236	-7.40E-03	USK	1.83E-02	2.92E-02	2.81E-03	2.81E-01
RP-8-SUR	Neptunium-236	-1.25E-03	USK	1.91E-02	2.55E-02	2.81E-03	2.81E-01
RP-9-SUR	Neptunium-236	9.81E-03	USK	1.05E-02	2.42E-02	2.81E-03	2.81E-01
RP-10-SUR	Neptunium-236	-5.81E-03	USK	1.88E-02	3.08E-02	2.81E-03	2.81E-01
RP-11-SUR	Neptunium-236	1.40E-02	SK	1.26E-02	2.99E-02	2.81E-03	2.81E-01
RP-12-SUR	Neptunium-236	-7.63E-03	USK	1.74E-02	2.86E-02	2.81E-03	2.81E-01
RP-13-SUR	Neptunium-236	2.64E-03	USK	4.33E-03	2.71E-02	2.81E-03	2.81E-01
RP-14-SUR	Neptunium-236	1.39E-02	SK	9.93E-03	2.91E-02	2.81E-03	2.81E-01
RP-15-SUR	Neptunium-236	1.47E-02	USK	1.96E-02	2.90E-02	2.81E-03	2.81E-01
RP-16-SUR	Neptunium-236	1.13E-02	USK	1.32E-02	2.87E-02	2.81E-03	2.81E-01
RP-17-SUR	Neptunium-236	4.00E-03	USK	1.76E-02	2.92E-02	2.81E-03	2.81E-01
RP-18-SUR	Neptunium-236	1.36E-02	USK	1.75E-02	3.00E-02	2.81E-03	2.81E-01
RP-19-SUR	Neptunium-236	-7.71E-03	USK	2.79E-02	2.71E-02	2.81E-03	2.81E-01
RP-20-SUR	Neptunium-236	2.04E-02	SK	1.54E-02	3.07E-02	2.81E-03	2.81E-01
RP-21-SUR	Neptunium-236	-7.44E-03	USK	1.76E-02	2.90E-02	2.81E-03	2.81E-01

Table 6.26 - Neptunium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Neptunium-236	-4.61E-04	USK	1.57E-02	2.60E-02	2.81E-03	2.81E-01
RP-23-SUR	Neptunium-236	-8.37E-03	USK	1.85E-02	3.05E-02	2.81E-03	2.81E-01
RP-24-SUR	Neptunium-236	3.99E-04	USK	1.77E-02	2.93E-02	2.81E-03	2.81E-01
RP-25-SUR	Neptunium-236	-7.16E-03	USK	1.87E-02	3.09E-02	2.81E-03	2.81E-01
RP-26-SUR	Neptunium-236	4.91E-04	USK	1.47E-02	2.44E-02	2.81E-03	2.81E-01
RP-27-SUR	Neptunium-236	3.15E-04	USK	1.72E-02	2.85E-02	2.81E-03	2.81E-01
RP-28-SUR	Neptunium-236	-4.69E-03	USK	1.90E-02	3.15E-02	2.81E-03	2.81E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Neptunium-236	-5.84E-04	USK	1.44E-02	2.38E-02	2.81E-03	2.81E-01
RP-5-SUB	Neptunium-236	-4.27E-03	USK	1.68E-02	2.79E-02	2.81E-03	2.81E-01
RP-7-SUB	Neptunium-236	1.27E-02	USK	1.39E-02	2.62E-02	2.81E-03	2.81E-01
RP-12-SUB	Neptunium-236	-5.71E-03	USK	1.70E-02	2.80E-02	2.81E-03	2.81E-01
RP-13-SUB	Neptunium-236	1.73E-02	SK	1.32E-02	2.74E-02	2.81E-03	2.81E-01
RP-17-SUB	Neptunium-236	-1.27E-02	USK	1.80E-02	2.97E-02	2.81E-03	2.81E-01
RP-18-SUB	Neptunium-236	-7.00E-05	USK	1.93E-02	3.19E-02	2.81E-03	2.81E-01
RP-19-SUB	Neptunium-236	5.32E-03	SK	4.89E-03	3.07E-02	2.81E-03	2.81E-01
RP-20-SUB	Neptunium-236	6.37E-04	USK	1.79E-02	2.96E-02	2.81E-03	2.81E-01
RP-28-SUB	Neptunium-236	4.79E-03	USK	5.70E-03	3.06E-02	2.81E-03	2.81E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Neptunium-236	1.77E-02	SK	1.17E-02	3.77E-02	2.81E-03	2.81E-01
BP-2-SUR	Neptunium-236	5.90E-03	SK	5.06E-03	3.88E-02	2.81E-03	2.81E-01
BP-3-SUR	Neptunium-236	2.51E-02	SK	1.79E-02	3.98E-02	2.81E-03	2.81E-01
BP-4-SUR	Neptunium-236	1.68E-02	SK	1.20E-02	4.04E-02	2.81E-03	2.81E-01
BP-5-SUR	Neptunium-236	1.71E-02	SK	1.20E-02	3.86E-02	2.81E-03	2.81E-01
BP-6-SUR	Neptunium-236	1.26E-02	SK	1.19E-02	3.98E-02	2.81E-03	2.81E-01
BP-7-SUR	Neptunium-236	-1.47E-02	USK	2.47E-02	4.07E-02	2.81E-03	2.81E-01
BP-8-SUR	Neptunium-236	1.54E-02	SK	1.39E-02	4.02E-02	2.81E-03	2.81E-01
BP-9-SUR	Neptunium-236	2.06E-02	SK	1.82E-02	4.05E-02	2.81E-03	2.81E-01
BP-10-SUR	Neptunium-236	1.88E-02	SK	1.46E-02	4.05E-02	2.81E-03	2.81E-01
BP-11-SUR	Neptunium-236	-1.64E-02	USK	2.33E-02	3.84E-02	2.81E-03	2.81E-01
BP-12-SUR	Neptunium-236	2.34E-02	SK	1.85E-02	3.88E-02	2.81E-03	2.81E-01
BP-13-SUR	Neptunium-236	1.17E-02	SK	1.17E-02	3.83E-02	2.81E-03	2.81E-01
BP-14-SUR	Neptunium-236	-1.06E-02	USK	2.27E-02	3.74E-02	2.81E-03	2.81E-01
BP-15-SUR	Neptunium-236	6.63E-03	USK	9.09E-03	3.91E-02	2.81E-03	2.81E-01
BP-16-SUR	Neptunium-236	-3.67E-03	USK	2.30E-02	3.80E-02	2.81E-03	2.81E-01
BP-17-SUR	Neptunium-236	1.56E-02	USK	1.71E-02	3.88E-02	2.81E-03	2.81E-01
BP-18-SUR	Neptunium-236	9.38E-03	SK	9.14E-03	3.58E-02	2.81E-03	2.81E-01
BP-19-SUR	Neptunium-236	3.24E-02	SK	1.96E-02	4.00E-02	2.81E-03	2.81E-01
BP-20-SUR	Neptunium-236	1.84E-02	SK	1.30E-02	3.88E-02	2.81E-03	2.81E-01
BP-21-SUR	Neptunium-236	-1.20E-02	USK	2.41E-02	3.97E-02	2.81E-03	2.81E-01
BP-22-SUR	Neptunium-236	1.68E-02	USK	1.98E-02	4.00E-02	2.81E-03	2.81E-01
BP-23-SUR	Neptunium-236	1.26E-02	USK	1.44E-02	4.08E-02	2.81E-03	2.81E-01
BP-24-SUR	Neptunium-236	-2.52E-03	USK	1.01E-01	4.09E-02	2.81E-03	2.81E-01
BP-25-SUR	Neptunium-236	1.43E-02	SK	1.08E-02	4.03E-02	2.81E-03	2.81E-01
BP-26-SUR	Neptunium-236	-1.74E-02	USK	3.10E-02	3.85E-02	2.81E-03	2.81E-01
BP-27-SUR	Neptunium-236	-9.25E-03	USK	4.21E-02	3.98E-02	2.81E-03	2.81E-01
BP-28-SUR	Neptunium-236	-2.26E-03	USK	4.52E-01	3.85E-02	2.81E-03	2.81E-01
BP-29-SUR	Neptunium-236	-1.12E-03	USK	2.18E-01	3.36E-02	2.81E-03	2.81E-01
BP-30-SUR	Neptunium-236	1.31E-02	SK	1.21E-02	3.88E-02	2.81E-03	2.81E-01
BP-31-SUR	Neptunium-236	1.53E-02	USK	1.71E-02	3.92E-02	2.81E-03	2.81E-01
BP-32-SUR	Neptunium-236	1.26E-02	USK	1.42E-02	3.72E-02	2.81E-03	2.81E-01
BP-33-SUR	Neptunium-236	1.16E-02	SK	1.14E-02	3.98E-02	2.81E-03	2.81E-01
BP-34-SUR	Neptunium-236	-9.12E-03	USK	3.47E-02	3.89E-02	2.81E-03	2.81E-01
BP-35-SUR	Neptunium-236	2.04E-03	USK	2.81E-03	3.82E-02	2.81E-03	2.81E-01
BP-36-SUR	Neptunium-236	3.24E-03	USK	4.81E-03	3.77E-02	2.81E-03	2.81E-01
BP-37-SUR	Neptunium-236	-1.84E-03	USK	2.58E-03	3.73E-02	2.81E-03	2.81E-01
BP-38-SUR	Neptunium-236	2.02E-02	SK	1.69E-02	3.59E-02	2.81E-03	2.81E-01
BP-39-SUR	Neptunium-236	-7.06E-03	USK	2.09E-02	3.45E-02	2.81E-03	2.81E-01
BP-40-SUR	Neptunium-236	7.24E-03	USK	1.21E-02	2.77E-02	2.81E-03	2.81E-01
BP-41-SUR	Neptunium-236	9.01E-03	USK	9.43E-03	3.77E-02	2.81E-03	2.81E-01
BP-42-SUR	Neptunium-236	-8.63E-03	USK	2.55E-02	3.69E-02	2.81E-03	2.81E-01

Table 6.26 - Neptunium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Neptunium-236	1.39E-02	USK	1.50E-02	3.77E-02	2.81E-03	2.81E-01
BP-44-SUR	Neptunium-236	-1.83E-02	USK	2.30E-02	3.56E-02	2.81E-03	2.81E-01
BP-45-SUR	Neptunium-236	-1.23E-02	USK	2.26E-02	3.73E-02	2.81E-03	2.81E-01
BP-46-SUR	Neptunium-236	3.05E-03	USK	2.21E-02	3.65E-02	2.81E-03	2.81E-01
BP-47-SUR	Neptunium-236	-1.85E-04	USK	2.24E-02	3.33E-02	2.81E-03	2.81E-01
BP-48-SUR	Neptunium-236	6.44E-03	USK	2.43E-02	4.02E-02	2.81E-03	2.81E-01
BP-49-SUR	Neptunium-236	1.53E-02	SK	1.02E-02	3.10E-02	2.81E-03	2.81E-01
BP-50-SUR	Neptunium-236	2.11E-02	SK	1.96E-02	3.65E-02	2.81E-03	2.81E-01
BP-51-SUR	Neptunium-236	1.90E-02	SK	1.15E-02	3.12E-02	2.81E-03	2.81E-01
BP-52-SUR	Neptunium-236	1.01E-02	SK	9.62E-03	2.93E-02	2.81E-03	2.81E-01
BP-53-SUR	Neptunium-236	4.11E-03	USK	4.35E-03	3.58E-02	2.81E-03	2.81E-01
BP-54-SUR	Neptunium-236	-7.48E-03	USK	4.13E-02	2.76E-02	2.81E-03	2.81E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Neptunium-236	1.02E-02	USK	1.19E-02	2.39E-02	2.81E-03	2.81E-01
BP-4-SUB	Neptunium-236	2.13E-02	USK	2.23E-02	3.16E-02	2.81E-03	2.81E-01
BP-5-SUB	Neptunium-236	7.53E-03	USK	9.37E-03	3.49E-02	2.81E-03	2.81E-01
BP-9-SUB	Neptunium-236	2.63E-02	SK	1.49E-02	3.00E-02	2.81E-03	2.81E-01
BP-12-SUB	Neptunium-236	1.82E-02	SK	1.28E-02	3.58E-02	2.81E-03	2.81E-01
BP-13-SUB	Neptunium-236	2.72E-02	SK	1.87E-02	3.71E-02	2.81E-03	2.81E-01
BP-14-SUB	Neptunium-236	3.28E-04	USK	2.12E-02	3.50E-02	2.81E-03	2.81E-01
BP-16-SUB	Neptunium-236	1.52E-03	USK	1.35E-02	2.24E-02	2.81E-03	2.81E-01
BP-20-SUB	Neptunium-236	-3.39E-03	USK	2.08E-02	3.43E-02	2.81E-03	2.81E-01
BP-23-SUB	Neptunium-236	1.07E-02	SK	1.01E-02	2.91E-02	2.81E-03	2.81E-01
BP-29-SUB	Neptunium-236	1.11E-02	USK	2.86E-01	5.10E-01	2.81E-03	2.81E-01
BP-34-SUB	Neptunium-236	2.09E-02	SK	1.81E-02	3.26E-02	2.81E-03	2.81E-01
BP-35-SUB	Neptunium-236	1.17E-02	SK	1.01E-02	3.08E-02	2.81E-03	2.81E-01
BP-38-SUB	Neptunium-236	4.79E-06	USK	2.20E-02	3.64E-02	2.81E-03	2.81E-01
BP-43-SUB	Neptunium-236	9.38E-03	USK	1.18E-02	3.60E-02	2.81E-03	2.81E-01
BP-45-SUB	Neptunium-236	-1.07E-02	USK	2.52E-02	3.75E-02	2.81E-03	2.81E-01
BP-46-SUB	Neptunium-236	3.80E-02	SK	2.39E-02	3.75E-02	2.81E-03	2.81E-01
BP-48-SUB	Neptunium-236	1.28E-02	USK	1.32E-02	3.56E-02	2.81E-03	2.81E-01
BP-50-SUB	Neptunium-236	-1.07E-02	USK	2.18E-02	3.59E-02	2.81E-03	2.81E-01
BP-51-SUB	Neptunium-236	3.06E-02	SK	2.48E-02	3.90E-02	2.81E-03	2.81E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.27 - Neptunium-237 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Neptunium-237	-1.90E-03	UJ	2.33E-02	3.77E-02	4.48E-04	4.48E-02
LR-2-SUR	Neptunium-237	-1.76E-02	UJ	3.61E-02	8.73E-02	4.48E-04	4.48E-02
LR-3-SUR	Neptunium-237	-6.87E-03	UJ	2.81E-02	5.69E-02	4.48E-04	4.48E-02
LR-4-SUR	Neptunium-237	-8.40E-03	UJ	3.43E-02	6.96E-02	4.48E-04	4.48E-02
LR-5-SUR	Neptunium-237	7.56E-04	UJ	2.78E-02	5.64E-02	4.48E-04	4.48E-02
LR-6-SUR	Neptunium-237	5.20E-03		4.25E-03	3.38E-03	4.48E-04	4.48E-02
LR-7-SUR	Neptunium-237	1.01E-03	U	9.25E-03	1.71E-02	4.48E-04	4.48E-02
LR-8-SUR	Neptunium-237	2.25E-02		1.04E-02	8.52E-03	4.48E-04	4.48E-02
LR-9-SUR	Neptunium-237	8.97E-04	U	8.25E-03	1.53E-02	4.48E-04	4.48E-02
LR-10-SUR	Neptunium-237	7.37E-03		5.24E-03	6.04E-03	4.48E-04	4.48E-02
LR-11-SUR	Neptunium-237	-1.20E-03	U	4.92E-03	9.98E-03	4.48E-04	4.48E-02
LR-12-SUR	Neptunium-237	1.88E-03	U	8.63E-03	1.88E-02	4.48E-04	4.48E-02
LR-13-SUR	Neptunium-237	1.70E-02		9.71E-03	9.81E-03	4.48E-04	4.48E-02
LR-14-SUR	Neptunium-237	6.84E-03		5.81E-03	8.37E-03	4.48E-04	4.48E-02
LR-15-SUR	Neptunium-237	-3.34E-02	UJ	4.58E-02	1.24E-01	4.48E-04	4.48E-02
LR-16-SUR	Neptunium-237	-1.46E-03	UJ	2.68E-02	5.83E-02	4.48E-04	4.48E-02
LR-17-SUR	Neptunium-237	6.21E-03	UJ	3.26E-02	5.28E-02	4.48E-04	4.48E-02
LR-18-SUR	Neptunium-237	0.00E+00	UR	7.70E-02	8.16E-02	4.48E-04	4.48E-02
LR-19-SUR	Neptunium-237	-2.85E-04	U	3.49E-03	5.65E-03	4.48E-04	4.48E-02
LR-20-SUR	Neptunium-237	-1.54E-03	U	2.76E-03	6.94E-03	4.48E-04	4.48E-02
LR-21-SUR	Neptunium-237	3.68E-04	U	2.71E-03	6.26E-03	4.48E-04	4.48E-02
LR-22-SUR	Neptunium-237	3.87E-03	UJ	1.43E-02	1.51E-02	4.48E-04	4.48E-02
LR-23-SUR	Neptunium-237	-2.41E-04	U	2.96E-03	4.78E-03	4.48E-04	4.48E-02
LR-24-SUR	Neptunium-237	-2.18E-04	U	2.67E-03	4.32E-03	4.48E-04	4.48E-02
LR-25-SUR	Neptunium-237	1.87E-03	U	4.06E-03	6.55E-03	4.48E-04	4.48E-02
LR-26-SUR	Neptunium-237	-1.27E-03	U	3.23E-03	7.38E-03	4.48E-04	4.48E-02
LR-27-SUR	Neptunium-237	-2.81E-03	UJ	1.29E-02	3.14E-02	4.48E-04	4.48E-02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Neptunium-237	-2.03E-04	U	3.74E-03	8.15E-03	4.48E-04	4.48E-02
LR-4-SUB	Neptunium-237	7.20E-05	U	5.22E-03	1.07E-02	4.48E-04	4.48E-02
LR-9-SUB	Neptunium-237	-1.17E-03	U	5.13E-03	1.02E-02	4.48E-04	4.48E-02
LR-13-SUB	Neptunium-237	0.00E+00	U	6.58E-03	6.97E-03	4.48E-04	4.48E-02
LR-15-SUB	Neptunium-237	2.54E-03	U	3.74E-03	7.27E-03	4.48E-04	4.48E-02
LR-18-SUB	Neptunium-237	-1.62E-03	U	3.97E-03	9.15E-03	4.48E-04	4.48E-02
LR-19-SUB	Neptunium-237	5.45E-04	U	4.01E-03	9.25E-03	4.48E-04	4.48E-02
LR-23-SUB	Neptunium-237	0.00E+00	U	3.97E-03	4.21E-03	4.48E-04	4.48E-02
LR-24-SUB	Neptunium-237	-3.93E-04	U	2.89E-03	6.68E-03	4.48E-04	4.48E-02
LR-26-SUB	Neptunium-237	1.80E-03	UJ	3.31E-02	8.05E-02	4.48E-04	4.48E-02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Neptunium-237	-3.39E-04	U	2.50E-03	5.76E-03	4.48E-04	4.48E-02
RP-2-SUR	Neptunium-237	1.79E-04	U	2.70E-03	7.14E-03	4.48E-04	4.48E-02
RP-3-SUR	Neptunium-237	-8.57E-04	U	2.63E-03	5.72E-03	4.48E-04	4.48E-02
RP-4-SUR	Neptunium-237	9.02E-05	U	3.32E-03	6.73E-03	4.48E-04	4.48E-02
RP-5-SUR	Neptunium-237	-3.31E-04	U	2.44E-03	5.63E-03	4.48E-04	4.48E-02
RP-6-SUR	Neptunium-237	-4.83E-04	U	2.42E-03	4.67E-03	4.48E-04	4.48E-02
RP-7-SUR	Neptunium-237	3.82E-04	U	3.51E-03	6.49E-03	4.48E-04	4.48E-02
RP-8-SUR	Neptunium-237	-6.78E-04	U	2.77E-03	5.62E-03	4.48E-04	4.48E-02
RP-9-SUR	Neptunium-237	8.68E-06	U	2.50E-03	6.24E-03	4.48E-04	4.48E-02
RP-10-SUR	Neptunium-237	4.58E-04	U	2.64E-03	6.56E-03	4.48E-04	4.48E-02
RP-11-SUR	Neptunium-237	8.56E-04	U	4.50E-03	7.28E-03	4.48E-04	4.48E-02
RP-12-SUR	Neptunium-237	5.29E-04	U	3.33E-03	8.56E-03	4.48E-04	4.48E-02
RP-13-SUR	Neptunium-237	-1.53E-03	U	3.32E-03	9.06E-03	4.48E-04	4.48E-02
RP-14-SUR	Neptunium-237	9.19E-04	U	3.38E-03	3.58E-03	4.48E-04	4.48E-02
RP-15-SUR	Neptunium-237	-1.34E-03	U	3.29E-03	7.59E-03	4.48E-04	4.48E-02
RP-16-SUR	Neptunium-237	-7.27E-04	U	3.49E-03	8.85E-03	4.48E-04	4.48E-02
RP-17-SUR	Neptunium-237	-7.03E-04	U	3.13E-03	8.83E-03	4.48E-04	4.48E-02
RP-18-SUR	Neptunium-237	4.53E-04	U	4.17E-03	7.71E-03	4.48E-04	4.48E-02
RP-19-SUR	Neptunium-237	-2.23E-03	U	3.44E-03	9.02E-03	4.48E-04	4.48E-02
RP-20-SUR	Neptunium-237	2.21E-03	U	3.03E-03	4.87E-03	4.48E-04	4.48E-02
RP-21-SUR	Neptunium-237	1.20E-03	U	6.32E-03	1.02E-02	4.48E-04	4.48E-02

Table 6.27 - Neptunium-237 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Neptunium-237	5.30E-04	U	3.55E-03	8.13E-03	4.48E-04	4.48E-02
RP-23-SUR	Neptunium-237	-5.83E-04	U	2.38E-03	4.83E-03	4.48E-04	4.48E-02
RP-24-SUR	Neptunium-237	-2.29E-04	U	2.40E-03	4.86E-03	4.48E-04	4.48E-02
RP-25-SUR	Neptunium-237	-1.30E-03	U	4.00E-03	8.69E-03	4.48E-04	4.48E-02
RP-26-SUR	Neptunium-237	8.94E-04	U	2.84E-03	5.65E-03	4.48E-04	4.48E-02
RP-27-SUR	Neptunium-237	6.71E-04	U	2.47E-03	2.62E-03	4.48E-04	4.48E-02
RP-28-SUR	Neptunium-237	-1.75E-03	U	7.15E-03	1.45E-02	4.48E-04	4.48E-02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Neptunium-237	7.95E-05	U	2.92E-03	5.93E-03	4.48E-04	4.48E-02
RP-5-SUB	Neptunium-237	8.76E-04	U	4.61E-03	7.46E-03	4.48E-04	4.48E-02
RP-7-SUB	Neptunium-237	3.02E-03	U	6.56E-03	1.06E-02	4.48E-04	4.48E-02
RP-12-SUB	Neptunium-237	1.64E-03	U	3.57E-03	5.75E-03	4.48E-04	4.48E-02
RP-13-SUB	Neptunium-237	6.67E-04	U	2.46E-03	2.60E-03	4.48E-04	4.48E-02
RP-17-SUB	Neptunium-237	1.24E-04	U	2.84E-03	5.66E-03	4.48E-04	4.48E-02
RP-18-SUB	Neptunium-237	1.20E-03	U	2.21E-03	2.33E-03	4.48E-04	4.48E-02
RP-19-SUB	Neptunium-237	1.46E-03	U	2.17E-03	4.26E-03	4.48E-04	4.48E-02
RP-20-SUB	Neptunium-237	6.43E-05	U	2.50E-03	5.06E-03	4.48E-04	4.48E-02
RP-28-SUB	Neptunium-237	1.09E-03	U	2.61E-03	5.95E-03	4.48E-04	4.48E-02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Neptunium-237	1.10E-03	U	5.06E-03	1.10E-02	4.48E-04	4.48E-02
BP-2-SUR	Neptunium-237	-3.57E-04	U	4.37E-03	7.08E-03	4.48E-04	4.48E-02
BP-3-SUR	Neptunium-237	1.18E-03	U	4.34E-03	4.59E-03	4.48E-04	4.48E-02
BP-4-SUR	Neptunium-237	-1.96E-03	U	4.83E-03	1.11E-02	4.48E-04	4.48E-02
BP-5-SUR	Neptunium-237	9.11E-05	UR	3.35E-03	6.80E-03	4.48E-04	4.48E-02
BP-6-SUR	Neptunium-237	5.52E-03	U	7.27E-03	1.33E-02	4.48E-04	4.48E-02
BP-7-SUR	Neptunium-237	-1.09E-03	U	4.44E-03	9.00E-03	4.48E-04	4.48E-02
BP-8-SUR	Neptunium-237	3.32E-03	U	5.21E-03	1.05E-02	4.48E-04	4.48E-02
BP-9-SUR	Neptunium-237	3.19E-03	U	4.38E-03	7.04E-03	4.48E-04	4.48E-02
BP-10-SUR	Neptunium-237	-1.04E-03	U	4.26E-03	8.64E-03	4.48E-04	4.48E-02
BP-11-SUR	Neptunium-237	4.02E-03	U	4.79E-03	8.05E-03	4.48E-04	4.48E-02
BP-12-SUR	Neptunium-237	3.11E-03	U	5.17E-03	1.06E-02	4.48E-04	4.48E-02
BP-13-SUR	Neptunium-237	7.13E-03	J	6.03E-03	7.78E-03	4.48E-04	4.48E-02
BP-14-SUR	Neptunium-237	4.61E-03	U	4.74E-03	7.13E-03	4.48E-04	4.48E-02
BP-15-SUR	Neptunium-237	0.00E+00	U	3.16E-03	6.81E-03	4.48E-04	4.48E-02
BP-16-SUR	Neptunium-237	4.13E-03	U	4.70E-03	7.83E-03	4.48E-04	4.48E-02
BP-17-SUR	Neptunium-237	4.01E-04	U	3.17E-03	5.90E-03	4.48E-04	4.48E-02
BP-18-SUR	Neptunium-237	3.06E-03	U	4.20E-03	6.75E-03	4.48E-04	4.48E-02
BP-19-SUR	Neptunium-237	0.00E+00	U	3.06E-03	3.25E-03	4.48E-04	4.48E-02
BP-20-SUR	Neptunium-237	1.18E-03	U	2.57E-03	4.14E-03	4.48E-04	4.48E-02
BP-21-SUR	Neptunium-237	1.21E-03	U	2.63E-03	4.24E-03	4.48E-04	4.48E-02
BP-22-SUR	Neptunium-237	9.62E-03	R	6.05E-03	7.29E-03	4.48E-04	4.48E-02
BP-23-SUR	Neptunium-237	5.08E-04	U	2.67E-03	4.32E-03	4.48E-04	4.48E-02
BP-24-SUR	Neptunium-237	-1.29E-03	U	3.27E-03	7.46E-03	4.48E-04	4.48E-02
BP-25-SUR	Neptunium-237	-5.88E-04	U	2.41E-03	4.88E-03	4.48E-04	4.48E-02
BP-26-SUR	Neptunium-237	1.76E-04	U	4.02E-03	8.02E-03	4.48E-04	4.48E-02
BP-27-SUR	Neptunium-237	0.00E+00	U	2.92E-03	3.09E-03	4.48E-04	4.48E-02
BP-28-SUR	Neptunium-237	-5.99E-04	U	2.45E-03	4.96E-03	4.48E-04	4.48E-02
BP-29-SUR	Neptunium-237	-7.67E-04	U	3.14E-03	6.35E-03	4.48E-04	4.48E-02
BP-30-SUR	Neptunium-237	2.61E-03	UJR	3.24E-03	3.40E-03	4.48E-04	4.48E-02
BP-31-SUR	Neptunium-237	1.01E-03	U	3.21E-03	6.39E-03	4.48E-04	4.48E-02
BP-32-SUR	Neptunium-237	4.41E-03		4.31E-03	6.69E-03	4.48E-04	4.48E-02
BP-33-SUR	Neptunium-237	5.87E-05	U	2.16E-03	4.38E-03	4.48E-04	4.48E-02
BP-34-SUR	Neptunium-237	5.26E-05	U	1.93E-03	3.92E-03	4.48E-04	4.48E-02
BP-35-SUR	Neptunium-237	-1.50E-04	U	2.76E-03	6.01E-03	4.48E-04	4.48E-02
BP-36-SUR	Neptunium-237	-3.96E-05	U	2.43E-03	6.13E-03	4.48E-04	4.48E-02
BP-37-SUR	Neptunium-237	-3.74E-04	U	2.75E-03	6.35E-03	4.48E-04	4.48E-02
BP-38-SUR	Neptunium-237	0.00E+00	U	2.19E-03	2.32E-03	4.48E-04	4.48E-02
BP-39-SUR	Neptunium-237	4.62E-04	U	2.43E-03	3.93E-03	4.48E-04	4.48E-02
BP-40-SUR	Neptunium-237	1.25E-03	U	2.71E-03	4.37E-03	4.48E-04	4.48E-02
BP-41-SUR	Neptunium-237	-3.33E-04	U	2.72E-03	6.23E-03	4.48E-04	4.48E-02
BP-42-SUR	Neptunium-237	6.88E-04	U	2.30E-03	4.66E-03	4.48E-04	4.48E-02

Table 6.27 - Neptunium-237 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Neptunium-237	5.91E-04	U	1.98E-03	4.01E-03	4.48E-04	4.48E-02
BP-44-SUR	Neptunium-237	-4.31E-05	U	2.64E-03	6.67E-03	4.48E-04	4.48E-02
BP-45-SUR	Neptunium-237	-2.01E-04	U	2.47E-03	4.00E-03	4.48E-04	4.48E-02
BP-46-SUR	Neptunium-237	-1.21E-03	U	3.07E-03	7.01E-03	4.48E-04	4.48E-02
BP-47-SUR	Neptunium-237	5.22E-05	U	1.92E-03	3.89E-03	4.48E-04	4.48E-02
BP-48-SUR	Neptunium-237	6.95E-04	U	2.33E-03	4.71E-03	4.48E-04	4.48E-02
BP-49-SUR	Neptunium-237	6.23E-04	U	2.19E-03	4.49E-03	4.48E-04	4.48E-02
BP-50-SUR	Neptunium-237	-6.55E-04	U	2.87E-03	5.72E-03	4.48E-04	4.48E-02
BP-51-SUR	Neptunium-237	-1.06E-03	U	2.61E-03	6.01E-03	4.48E-04	4.48E-02
BP-52-SUR	Neptunium-237	-1.30E-04	U	2.39E-03	5.21E-03	4.48E-04	4.48E-02
BP-53-SUR	Neptunium-237	-6.43E-04	U	2.63E-03	5.33E-03	4.48E-04	4.48E-02
BP-54-SUR	Neptunium-237	6.76E-04	U	2.49E-03	2.64E-03	4.48E-04	4.48E-02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Neptunium-237	2.06E-04	U	3.78E-03	8.86E-03	4.48E-04	4.48E-02
BP-4-SUB	Neptunium-237	-2.52E-03	U	3.85E-03	1.01E-02	4.48E-04	4.48E-02
BP-5-SUB	Neptunium-237	9.97E-04	U	3.63E-03	3.80E-03	4.48E-04	4.48E-02
BP-9-SUB	Neptunium-237	-7.88E-05	U	3.58E-03	7.55E-03	4.48E-04	4.48E-02
BP-12-SUB	Neptunium-237	-1.38E-03	U	3.73E-03	8.31E-03	4.48E-04	4.48E-02
BP-13-SUB	Neptunium-237	1.41E-03	U	4.33E-03	8.49E-03	4.48E-04	4.48E-02
BP-14-SUB	Neptunium-237	7.99E-04	U	3.71E-03	5.64E-03	4.48E-04	4.48E-02
BP-16-SUB	Neptunium-237	-6.87E-04	U	4.28E-03	7.81E-03	4.48E-04	4.48E-02
BP-20-SUB	Neptunium-237	3.66E-04	U	2.89E-03	5.20E-03	4.48E-04	4.48E-02
BP-23-SUB	Neptunium-237	2.64E-03	U	3.36E-03	5.91E-03	4.48E-04	4.48E-02
BP-29-SUB	Neptunium-237	-7.25E-05	U	3.30E-03	6.94E-03	4.48E-04	4.48E-02
BP-34-SUB	Neptunium-237	1.73E-04	U	3.31E-03	6.51E-03	4.48E-04	4.48E-02
BP-35-SUB	Neptunium-237	-3.01E-04	U	3.72E-03	8.20E-03	4.48E-04	4.48E-02
BP-38-SUB	Neptunium-237	-3.66E-04	U	4.09E-03	1.06E-02	4.48E-04	4.48E-02
BP-43-SUB	Neptunium-237	2.12E-03	U	4.04E-03	8.60E-03	4.48E-04	4.48E-02
BP-45-SUB	Neptunium-237	-2.42E-04	U	3.72E-03	5.80E-03	4.48E-04	4.48E-02
BP-46-SUB	Neptunium-237	8.30E-05	U	3.05E-03	6.19E-03	4.48E-04	4.48E-02
BP-48-SUB	Neptunium-237	1.21E-03	U	2.97E-03	6.85E-03	4.48E-04	4.48E-02
BP-50-SUB	Neptunium-237	1.92E-03	U	5.05E-03	9.32E-03	4.48E-04	4.48E-02
BP-51-SUB	Neptunium-237	2.62E-03	U	3.24E-03	3.40E-03	4.48E-04	4.48E-02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.28 - Neptunium-239 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Neptunium-239	-2.47E-02	U	4.97E-02	8.19E-02	2.26E+01	2.26E+03
LR-2-SUR	Neptunium-239	-1.50E-02	U	4.94E-02	8.15E-02	2.26E+01	2.26E+03
LR-3-SUR	Neptunium-239	9.98E-03	U	4.96E-02	8.21E-02	2.26E+01	2.26E+03
LR-4-SUR	Neptunium-239	1.43E-02	U	4.67E-02	7.72E-02	2.26E+01	2.26E+03
LR-5-SUR	Neptunium-239	-1.33E-02	U	4.81E-02	7.95E-02	2.26E+01	2.26E+03
LR-6-SUR	Neptunium-239	1.95E-02	U	5.05E-02	8.33E-02	2.26E+01	2.26E+03
LR-7-SUR	Neptunium-239	-1.56E-02	U	4.89E-02	8.07E-02	2.26E+01	2.26E+03
LR-8-SUR	Neptunium-239	-7.45E-03	U	4.85E-02	8.02E-02	2.26E+01	2.26E+03
LR-9-SUR	Neptunium-239	1.74E-02	U	4.98E-02	8.22E-02	2.26E+01	2.26E+03
LR-10-SUR	Neptunium-239	4.25E-03	U	4.87E-02	8.06E-02	2.26E+01	2.26E+03
LR-11-SUR	Neptunium-239	7.95E-03	U	4.94E-02	8.18E-02	2.26E+01	2.26E+03
LR-12-SUR	Neptunium-239	-1.34E-02	U	6.68E-02	8.01E-02	2.26E+01	2.26E+03
LR-13-SUR	Neptunium-239	1.85E-02	U	4.72E-02	7.79E-02	2.26E+01	2.26E+03
LR-14-SUR	Neptunium-239	-1.09E-02	U	6.63E-02	7.52E-02	2.26E+01	2.26E+03
LR-15-SUR	Neptunium-239	-4.66E-03	U	1.08E-01	6.51E-02	2.26E+01	2.26E+03
LR-16-SUR	Neptunium-239	4.78E-04	U	4.58E-02	7.58E-02	2.26E+01	2.26E+03
LR-17-SUR	Neptunium-239	-2.69E-02	U	5.13E-02	7.41E-02	2.26E+01	2.26E+03
LR-18-SUR	Neptunium-239	-5.24E-05	U	5.17E-02	8.16E-02	2.26E+01	2.26E+03
LR-19-SUR	Neptunium-239	1.89E-02	U	5.05E-02	8.34E-02	2.26E+01	2.26E+03
LR-20-SUR	Neptunium-239	-1.29E-02	U	6.69E-02	7.73E-02	2.26E+01	2.26E+03
LR-21-SUR	Neptunium-239	-1.04E-03	U	4.45E-02	7.37E-02	2.26E+01	2.26E+03
LR-22-SUR	Neptunium-239	-9.11E-03	U	5.08E-02	8.40E-02	2.26E+01	2.26E+03
LR-23-SUR	Neptunium-239	-1.72E-03	U	4.82E-02	7.98E-02	2.26E+01	2.26E+03
LR-24-SUR	Neptunium-239	2.13E-02	U	4.42E-02	7.28E-02	2.26E+01	2.26E+03
LR-25-SUR	Neptunium-239	1.91E-03	U	5.03E-02	8.32E-02	2.26E+01	2.26E+03
LR-26-SUR	Neptunium-239	7.27E-02		6.57E-02	7.30E-02	2.26E+01	2.26E+03
LR-27-SUR	Neptunium-239	-1.78E-02	U	4.87E-02	8.04E-02	2.26E+01	2.26E+03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Neptunium-239	-2.88E-02	U	4.99E-02	8.22E-02	2.26E+01	2.26E+03
LR-4-SUB	Neptunium-239	1.83E-02	U	4.70E-02	7.76E-02	2.26E+01	2.26E+03
LR-9-SUB	Neptunium-239	2.19E-04	U	4.89E-02	8.10E-02	2.26E+01	2.26E+03
LR-13-SUB	Neptunium-239	1.40E-02	U	4.25E-02	7.02E-02	2.26E+01	2.26E+03
LR-15-SUB	Neptunium-239	2.72E-02	U	5.48E-02	9.03E-02	2.26E+01	2.26E+03
LR-18-SUB	Neptunium-239	-2.74E-03	U	4.18E-01	8.32E-02	2.26E+01	2.26E+03
LR-19-SUB	Neptunium-239	-3.55E-03	U	1.33E+00	7.80E-02	2.26E+01	2.26E+03
LR-23-SUB	Neptunium-239	2.23E-05	U	5.08E-02	8.40E-02	2.26E+01	2.26E+03
LR-24-SUB	Neptunium-239	3.37E-03	U	3.75E-02	6.21E-02	2.26E+01	2.26E+03
LR-26-SUB	Neptunium-239	2.95E-03	U	4.80E-02	7.94E-02	2.26E+01	2.26E+03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Neptunium-239	3.04E-03	U	4.11E-02	6.80E-02	2.26E+01	2.26E+03
RP-2-SUR	Neptunium-239	-2.41E-02	U	4.37E-02	5.93E-02	2.26E+01	2.26E+03
RP-3-SUR	Neptunium-239	-6.30E-03	U	1.03E-01	6.41E-02	2.26E+01	2.26E+03
RP-4-SUR	Neptunium-239	-1.05E-02	U	6.14E-02	6.63E-02	2.26E+01	2.26E+03
RP-5-SUR	Neptunium-239	1.18E-02	U	4.15E-02	6.86E-02	2.26E+01	2.26E+03
RP-6-SUR	Neptunium-239	-3.88E-03	U	1.71E-01	7.07E-02	2.26E+01	2.26E+03
RP-7-SUR	Neptunium-239	5.47E-03	U	3.98E-02	6.58E-02	2.26E+01	2.26E+03
RP-8-SUR	Neptunium-239	5.79E-03	U	4.18E-02	6.91E-02	2.26E+01	2.26E+03
RP-9-SUR	Neptunium-239	2.50E-03	U	3.43E-02	5.68E-02	2.26E+01	2.26E+03
RP-10-SUR	Neptunium-239	-3.07E-03	U	2.87E-01	7.01E-02	2.26E+01	2.26E+03
RP-11-SUR	Neptunium-239	-9.44E-03	U	7.88E-02	6.73E-02	2.26E+01	2.26E+03
RP-12-SUR	Neptunium-239	-2.59E-02	U	4.68E-02	6.56E-02	2.26E+01	2.26E+03
RP-13-SUR	Neptunium-239	-6.63E-03	U	7.04E-02	6.11E-02	2.26E+01	2.26E+03
RP-14-SUR	Neptunium-239	-5.12E-03	U	8.50E-02	5.82E-02	2.26E+01	2.26E+03
RP-15-SUR	Neptunium-239	-1.63E-02	U	5.20E-02	6.57E-02	2.26E+01	2.26E+03
RP-16-SUR	Neptunium-239	8.16E-03	U	3.98E-02	6.59E-02	2.26E+01	2.26E+03
RP-17-SUR	Neptunium-239	-9.37E-04	U	7.74E-02	5.02E-02	2.26E+01	2.26E+03
RP-18-SUR	Neptunium-239	-5.11E-03	U	9.31E-02	6.03E-02	2.26E+01	2.26E+03
RP-19-SUR	Neptunium-239	8.84E-03	U	4.18E-02	6.91E-02	2.26E+01	2.26E+03
RP-20-SUR	Neptunium-239	-1.88E-02	U	5.77E-02	7.01E-02	2.26E+01	2.26E+03
RP-21-SUR	Neptunium-239	1.61E-04	U	3.98E-02	6.59E-02	2.26E+01	2.26E+03

Table 6.28 - Neptunium-239 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Neptunium-239	-1.61E-02	U	4.05E-02	6.69E-02	2.26E+01	2.26E+03
RP-23-SUR	Neptunium-239	2.57E-02	U	4.19E-02	6.89E-02	2.26E+01	2.26E+03
RP-24-SUR	Neptunium-239	-1.96E-02	U	4.10E-02	6.75E-02	2.26E+01	2.26E+03
RP-25-SUR	Neptunium-239	-7.53E-03	U	4.30E-02	7.10E-02	2.26E+01	2.26E+03
RP-26-SUR	Neptunium-239	-1.58E-02	U	4.22E-02	6.97E-02	2.26E+01	2.26E+03
RP-27-SUR	Neptunium-239	2.57E-04	U	4.33E-02	7.18E-02	2.26E+01	2.26E+03
RP-28-SUR	Neptunium-239	-1.07E-02	U	4.40E-02	7.27E-02	2.26E+01	2.26E+03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Neptunium-239	1.12E-03	U	3.96E-02	6.57E-02	2.26E+01	2.26E+03
RP-5-SUB	Neptunium-239	1.78E-03	U	4.35E-02	7.20E-02	2.26E+01	2.26E+03
RP-7-SUB	Neptunium-239	4.27E-02	U	4.86E-02	5.76E-02	2.26E+01	2.26E+03
RP-12-SUB	Neptunium-239	-5.97E-04	U	3.44E-02	5.70E-02	2.26E+01	2.26E+03
RP-13-SUB	Neptunium-239	-1.53E-02	U	4.25E-02	7.01E-02	2.26E+01	2.26E+03
RP-17-SUB	Neptunium-239	-2.64E-02	U	5.86E-02	7.23E-02	2.26E+01	2.26E+03
RP-18-SUB	Neptunium-239	2.09E-02	U	4.10E-02	6.76E-02	2.26E+01	2.26E+03
RP-19-SUB	Neptunium-239	7.68E-03	U	4.18E-02	6.92E-02	2.26E+01	2.26E+03
RP-20-SUB	Neptunium-239	-5.68E-04	U	1.01E-01	6.89E-02	2.26E+01	2.26E+03
RP-28-SUB	Neptunium-239	3.80E-03	U	3.49E-02	5.79E-02	2.26E+01	2.26E+03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Neptunium-239	2.53E-03	U	5.15E-02	8.53E-02	2.26E+01	2.26E+03
BP-2-SUR	Neptunium-239	-2.45E-02	U	5.81E-02	8.46E-02	2.26E+01	2.26E+03
BP-3-SUR	Neptunium-239	-2.80E-02	U	5.97E-02	8.82E-02	2.26E+01	2.26E+03
BP-4-SUR	Neptunium-239	-7.90E-03	U	8.22E-02	9.15E-02	2.26E+01	2.26E+03
BP-5-SUR	Neptunium-239	-2.37E-03	U	2.31E-01	8.57E-02	2.26E+01	2.26E+03
BP-6-SUR	Neptunium-239	-2.48E-02	U	6.06E-02	8.84E-02	2.26E+01	2.26E+03
BP-7-SUR	Neptunium-239	1.03E-02	U	5.70E-02	9.43E-02	2.26E+01	2.26E+03
BP-8-SUR	Neptunium-239	-4.15E-03	U	5.74E-02	8.97E-02	2.26E+01	2.26E+03
BP-9-SUR	Neptunium-239	-1.59E-02	U	5.63E-02	9.16E-02	2.26E+01	2.26E+03
BP-10-SUR	Neptunium-239	5.27E-03	U	5.32E-02	8.80E-02	2.26E+01	2.26E+03
BP-11-SUR	Neptunium-239	-5.21E-04	U	8.28E-02	8.63E-02	2.26E+01	2.26E+03
BP-12-SUR	Neptunium-239	-2.49E-03	U	5.92E-02	8.89E-02	2.26E+01	2.26E+03
BP-13-SUR	Neptunium-239	-7.47E-03	U	5.87E-02	9.70E-02	2.26E+01	2.26E+03
BP-14-SUR	Neptunium-239	-1.93E-02	U	5.22E-02	8.51E-02	2.26E+01	2.26E+03
BP-15-SUR	Neptunium-239	-8.37E-03	U	4.40E-02	7.07E-02	2.26E+01	2.26E+03
BP-16-SUR	Neptunium-239	-8.77E-03	U	5.43E-02	8.74E-02	2.26E+01	2.26E+03
BP-17-SUR	Neptunium-239	1.82E-02	U	5.34E-02	8.82E-02	2.26E+01	2.26E+03
BP-18-SUR	Neptunium-239	1.78E-02	U	5.30E-02	8.76E-02	2.26E+01	2.26E+03
BP-19-SUR	Neptunium-239	-1.90E-02	U	5.99E-02	9.26E-02	2.26E+01	2.26E+03
BP-20-SUR	Neptunium-239	-1.76E-02	U	8.07E-02	9.20E-02	2.26E+01	2.26E+03
BP-21-SUR	Neptunium-239	-1.44E-02	U	8.73E-02	9.12E-02	2.26E+01	2.26E+03
BP-22-SUR	Neptunium-239	-1.80E-02	U	5.55E-02	8.51E-02	2.26E+01	2.26E+03
BP-23-SUR	Neptunium-239	-9.52E-03	U	1.94E-01	9.20E-02	2.26E+01	2.26E+03
BP-24-SUR	Neptunium-239	1.35E-02	U	5.73E-02	9.48E-02	2.26E+01	2.26E+03
BP-25-SUR	Neptunium-239	-3.79E-03	U	2.55E-01	8.10E-02	2.26E+01	2.26E+03
BP-26-SUR	Neptunium-239	2.43E-02	U	5.50E-02	9.08E-02	2.26E+01	2.26E+03
BP-27-SUR	Neptunium-239	-5.77E-03	U	2.49E+00	9.08E-02	2.26E+01	2.26E+03
BP-28-SUR	Neptunium-239	-4.53E-03	U	5.39E-01	8.42E-02	2.26E+01	2.26E+03
BP-29-SUR	Neptunium-239	-2.66E-03	U	4.40E-02	7.30E-02	2.26E+01	2.26E+03
BP-30-SUR	Neptunium-239	-2.12E-02	U	6.99E-02	8.56E-02	2.26E+01	2.26E+03
BP-31-SUR	Neptunium-239	1.60E-02	U	4.26E-02	7.04E-02	2.26E+01	2.26E+03
BP-32-SUR	Neptunium-239	7.74E-03	U	5.33E-02	8.81E-02	2.26E+01	2.26E+03
BP-33-SUR	Neptunium-239	-1.04E-02	U	5.44E-02	8.94E-02	2.26E+01	2.26E+03
BP-34-SUR	Neptunium-239	1.79E-02	U	5.44E-02	8.98E-02	2.26E+01	2.26E+03
BP-35-SUR	Neptunium-239	-7.84E-03	U	5.24E-02	8.58E-02	2.26E+01	2.26E+03
BP-36-SUR	Neptunium-239	2.51E-02	U	5.13E-02	8.45E-02	2.26E+01	2.26E+03
BP-37-SUR	Neptunium-239	1.26E-02	U	5.04E-02	8.33E-02	2.26E+01	2.26E+03
BP-38-SUR	Neptunium-239	7.52E-03	U	4.92E-02	8.14E-02	2.26E+01	2.26E+03
BP-39-SUR	Neptunium-239	8.51E-04	U	4.85E-02	8.03E-02	2.26E+01	2.26E+03
BP-40-SUR	Neptunium-239	5.88E-03	U	4.96E-02	8.21E-02	2.26E+01	2.26E+03
BP-41-SUR	Neptunium-239	-3.40E-02	U	5.50E-02	8.78E-02	2.26E+01	2.26E+03
BP-42-SUR	Neptunium-239	8.95E-05	U	4.21E-02	6.98E-02	2.26E+01	2.26E+03

Table 6.28 - Neptunium-239 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Neptunium-239	-1.80E-02	U	5.60E-02	8.75E-02	2.26E+01	2.26E+03
BP-44-SUR	Neptunium-239	-2.43E-02	U	5.24E-02	8.34E-02	2.26E+01	2.26E+03
BP-45-SUR	Neptunium-239	1.91E-02	U	3.92E-02	6.46E-02	2.26E+01	2.26E+03
BP-46-SUR	Neptunium-239	-1.32E-02	U	5.00E-02	8.25E-02	2.26E+01	2.26E+03
BP-47-SUR	Neptunium-239	-1.36E-03	U	4.30E-02	7.11E-02	2.26E+01	2.26E+03
BP-48-SUR	Neptunium-239	7.84E-03	U	5.48E-02	9.07E-02	2.26E+01	2.26E+03
BP-49-SUR	Neptunium-239	-2.32E-02	U	4.53E-02	7.46E-02	2.26E+01	2.26E+03
BP-50-SUR	Neptunium-239	-1.87E-02	U	5.10E-02	8.41E-02	2.26E+01	2.26E+03
BP-51-SUR	Neptunium-239	-6.86E-03	U	4.39E-02	7.26E-02	2.26E+01	2.26E+03
BP-52-SUR	Neptunium-239	-2.11E-03	U	4.16E-02	6.89E-02	2.26E+01	2.26E+03
BP-53-SUR	Neptunium-239	-1.01E-03	U	4.76E-02	7.88E-02	2.26E+01	2.26E+03
BP-54-SUR	Neptunium-239	1.48E-02	U	3.71E-02	6.13E-02	2.26E+01	2.26E+03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Neptunium-239	-2.31E-02	U	4.13E-02	6.81E-02	2.26E+01	2.26E+03
BP-4-SUB	Neptunium-239	-2.64E-02	U	4.77E-02	7.84E-02	2.26E+01	2.26E+03
BP-5-SUB	Neptunium-239	-2.23E-02	U	4.47E-02	7.37E-02	2.26E+01	2.26E+03
BP-9-SUB	Neptunium-239	-7.22E-03	U	5.53E-02	6.83E-02	2.26E+01	2.26E+03
BP-12-SUB	Neptunium-239	-5.23E-04	U	4.62E-02	7.65E-02	2.26E+01	2.26E+03
BP-13-SUB	Neptunium-239	7.63E-03	U	5.19E-02	8.59E-02	2.26E+01	2.26E+03
BP-14-SUB	Neptunium-239	-1.77E-02	U	7.81E-02	7.93E-02	2.26E+01	2.26E+03
BP-16-SUB	Neptunium-239	-1.34E-04	U	4.90E-02	6.27E-02	2.26E+01	2.26E+03
BP-20-SUB	Neptunium-239	-8.94E-03	U	1.33E-01	7.82E-02	2.26E+01	2.26E+03
BP-23-SUB	Neptunium-239	1.12E-02	U	4.04E-02	6.67E-02	2.26E+01	2.26E+03
BP-29-SUB	Neptunium-239	-4.44E-03	U	1.78E-01	1.49E+00	2.26E+01	2.26E+03
BP-34-SUB	Neptunium-239	-1.35E-02	U	9.61E-02	8.78E-02	2.26E+01	2.26E+03
BP-35-SUB	Neptunium-239	-1.40E-02	U	5.18E-02	7.34E-02	2.26E+01	2.26E+03
BP-38-SUB	Neptunium-239	-2.14E-02	U	7.67E-02	8.20E-02	2.26E+01	2.26E+03
BP-43-SUB	Neptunium-239	-1.02E-02	U	5.46E-02	8.17E-02	2.26E+01	2.26E+03
BP-45-SUB	Neptunium-239	-2.58E-02	U	5.30E-02	8.44E-02	2.26E+01	2.26E+03
BP-46-SUB	Neptunium-239	-7.39E-03	U	4.77E-02	6.70E-02	2.26E+01	2.26E+03
BP-48-SUB	Neptunium-239	-1.54E-02	U	5.19E-02	8.06E-02	2.26E+01	2.26E+03
BP-50-SUB	Neptunium-239	-8.23E-03	U	5.46E-02	8.02E-02	2.26E+01	2.26E+03
BP-51-SUB	Neptunium-239	-1.41E-02	U	5.81E-02	8.85E-02	2.26E+01	2.26E+03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.29 - Nickel-59 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Nickel-59	1.70E-01	U	3.87E-01	6.84E-01	2.15E+00	2.15E+02
LR-2-SUR	Nickel-59	2.33E-01	U	4.06E-01	7.13E-01	2.15E+00	2.15E+02
LR-3-SUR	Nickel-59	4.51E-01	J	3.22E-01	5.29E-01	2.15E+00	2.15E+02
LR-4-SUR	Nickel-59	5.07E-02	U	2.70E-01	4.85E-01	2.15E+00	2.15E+02
LR-5-SUR	Nickel-59	-2.17E-01	U	3.57E-01	6.55E-01	2.15E+00	2.15E+02
LR-6-SUR	Nickel-59	6.99E-02	UJ	4.89E-01	8.85E-01	2.15E+00	2.15E+02
LR-7-SUR	Nickel-59	-3.74E-02	U	2.58E-01	4.74E-01	2.15E+00	2.15E+02
LR-8-SUR	Nickel-59	6.72E-02	U	2.34E-01	4.20E-01	2.15E+00	2.15E+02
LR-9-SUR	Nickel-59	7.78E-02	U	2.74E-01	4.93E-01	2.15E+00	2.15E+02
LR-10-SUR	Nickel-59	-3.22E-01	UJ	4.25E-01	7.86E-01	2.15E+00	2.15E+02
LR-11-SUR	Nickel-59	2.07E-02	U	4.20E-01	7.59E-01	2.15E+00	2.15E+02
LR-12-SUR	Nickel-59	-1.81E-01	U	3.27E-01	6.03E-01	2.15E+00	2.15E+02
LR-13-SUR	Nickel-59	-9.54E-02	U	2.72E-01	4.98E-01	2.15E+00	2.15E+02
LR-14-SUR	Nickel-59	-8.75E-03	U	3.03E-01	5.54E-01	2.15E+00	2.15E+02
LR-15-SUR	Nickel-59	6.49E-02	UJ	2.08E-01	3.72E-01	2.15E+00	2.15E+02
LR-16-SUR	Nickel-59	3.11E-01	U	4.11E-01	7.16E-01	2.15E+00	2.15E+02
LR-17-SUR	Nickel-59	3.95E-02	UJ	3.58E-01	6.48E-01	2.15E+00	2.15E+02
LR-18-SUR	Nickel-59	1.14E+00		5.09E-01	7.46E-01	2.15E+00	2.15E+02
LR-19-SUR	Nickel-59	-7.32E-02	U	2.21E-01	4.06E-01	2.15E+00	2.15E+02
LR-20-SUR	Nickel-59	7.76E-02	UJ	2.21E-01	3.94E-01	2.15E+00	2.15E+02
LR-21-SUR	Nickel-59	2.32E-02	U	2.29E-01	4.11E-01	2.15E+00	2.15E+02
LR-22-SUR	Nickel-59	-9.67E-02	U	2.39E-01	4.39E-01	2.15E+00	2.15E+02
LR-23-SUR	Nickel-59	-1.11E-01	U	2.01E-01	3.73E-01	2.15E+00	2.15E+02
LR-24-SUR	Nickel-59	-1.54E-02	U	2.11E-01	3.84E-01	2.15E+00	2.15E+02
LR-25-SUR	Nickel-59	4.85E-02	UJ	1.89E-01	3.39E-01	2.15E+00	2.15E+02
LR-26-SUR	Nickel-59	8.31E-03	UJ	2.02E-01	3.66E-01	2.15E+00	2.15E+02
LR-27-SUR	Nickel-59	-7.98E-02	U	2.15E-01	3.96E-01	2.15E+00	2.15E+02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Nickel-59	-1.09E-02	U	3.01E-01	5.47E-01	2.15E+00	2.15E+02
LR-4-SUB	Nickel-59	1.46E-01	U	3.04E-01	5.39E-01	2.15E+00	2.15E+02
LR-9-SUB	Nickel-59	2.25E-01	UJ	2.60E-01	4.49E-01	2.15E+00	2.15E+02
LR-13-SUB	Nickel-59	-8.92E-02	U	3.88E-01	7.09E-01	2.15E+00	2.15E+02
LR-15-SUB	Nickel-59	4.52E-02	UJ	2.05E-01	3.68E-01	2.15E+00	2.15E+02
LR-18-SUB	Nickel-59	-1.37E-01	U	3.66E-01	6.74E-01	2.15E+00	2.15E+02
LR-19-SUB	Nickel-59	2.30E-02	UJ	2.10E-01	3.79E-01	2.15E+00	2.15E+02
LR-23-SUB	Nickel-59	6.46E-02	UJ	2.27E-01	4.06E-01	2.15E+00	2.15E+02
LR-24-SUB	Nickel-59	1.89E-01	UJ	2.23E-01	3.84E-01	2.15E+00	2.15E+02
LR-26-SUB	Nickel-59	4.00E-02	UJ	2.67E-01	4.82E-01	2.15E+00	2.15E+02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Nickel-59	-1.83E-01	UL	1.73E-01	3.22E-01	2.15E+00	2.15E+02
RP-2-SUR	Nickel-59	-1.05E-01	U	1.90E-01	3.52E-01	2.15E+00	2.15E+02
RP-3-SUR	Nickel-59	-5.32E-02	U	1.71E-01	3.15E-01	2.15E+00	2.15E+02
RP-4-SUR	Nickel-59	3.63E-03	U	2.50E-01	4.52E-01	2.15E+00	2.15E+02
RP-5-SUR	Nickel-59	-8.00E-02	UJ	1.60E-01	2.95E-01	2.15E+00	2.15E+02
RP-6-SUR	Nickel-59	2.18E-02	U	2.15E-01	3.87E-01	2.15E+00	2.15E+02
RP-7-SUR	Nickel-59	-5.77E-02	U	4.15E-01	7.54E-01	2.15E+00	2.15E+02
RP-8-SUR	Nickel-59	-1.90E-01	UJ	2.10E-01	3.89E-01	2.15E+00	2.15E+02
RP-9-SUR	Nickel-59	-7.89E-02	UJ	2.60E-01	4.77E-01	2.15E+00	2.15E+02
RP-10-SUR	Nickel-59	-1.01E-01	U	2.38E-01	4.39E-01	2.15E+00	2.15E+02
RP-11-SUR	Nickel-59	-3.40E-02	U	1.99E-01	3.65E-01	2.15E+00	2.15E+02
RP-12-SUR	Nickel-59	1.07E-01	U	2.09E-01	3.71E-01	2.15E+00	2.15E+02
RP-13-SUR	Nickel-59	-3.08E-01	UL	2.53E-01	4.67E-01	2.15E+00	2.15E+02
RP-14-SUR	Nickel-59	-3.50E-01	UL	3.33E-01	6.19E-01	2.15E+00	2.15E+02
RP-15-SUR	Nickel-59	5.97E-02	UJ	2.63E-01	4.71E-01	2.15E+00	2.15E+02
RP-16-SUR	Nickel-59	6.29E-02	U	1.94E-01	3.48E-01	2.15E+00	2.15E+02
RP-17-SUR	Nickel-59	3.97E-02	U	2.16E-01	3.89E-01	2.15E+00	2.15E+02
RP-18-SUR	Nickel-59	1.44E-01	U	2.61E-01	4.60E-01	2.15E+00	2.15E+02
RP-19-SUR	Nickel-59	2.25E-01	UJ	4.55E-01	8.05E-01	2.15E+00	2.15E+02
RP-20-SUR	Nickel-59	2.73E-02	U	2.40E-01	4.34E-01	2.15E+00	2.15E+02
RP-21-SUR	Nickel-59	-9.70E-02	U	3.15E-01	5.80E-01	2.15E+00	2.15E+02

Table 6.29 - Nickel-59 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Nickel-59	1.40E-01	U	2.61E-01	4.62E-01	2.15E+00	2.15E+02
RP-23-SUR	Nickel-59	-1.24E-02	U	2.17E-01	3.96E-01	2.15E+00	2.15E+02
RP-24-SUR	Nickel-59	5.92E-02	U	2.10E-01	3.77E-01	2.15E+00	2.15E+02
RP-25-SUR	Nickel-59	4.53E-02	U	2.00E-01	3.60E-01	2.15E+00	2.15E+02
RP-26-SUR	Nickel-59	4.56E-02	U	2.70E-01	4.86E-01	2.15E+00	2.15E+02
RP-27-SUR	Nickel-59	-1.08E-02	U	1.95E-01	3.54E-01	2.15E+00	2.15E+02
RP-28-SUR	Nickel-59	1.69E-01	UJ	2.15E-01	3.72E-01	2.15E+00	2.15E+02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Nickel-59	2.69E-01	U	3.40E-01	5.89E-01	2.15E+00	2.15E+02
RP-5-SUB	Nickel-59	7.23E-02	U	2.94E-01	5.27E-01	2.15E+00	2.15E+02
RP-7-SUB	Nickel-59	-7.11E-03	UJ	2.05E-01	3.72E-01	2.15E+00	2.15E+02
RP-12-SUB	Nickel-59	-6.12E-02	U	2.92E-01	5.35E-01	2.15E+00	2.15E+02
RP-13-SUB	Nickel-59	6.52E-02	U	3.17E-01	5.70E-01	2.15E+00	2.15E+02
RP-17-SUB	Nickel-59	1.13E-01	U	3.32E-01	5.93E-01	2.15E+00	2.15E+02
RP-18-SUB	Nickel-59	5.51E-02	U	2.24E-01	4.02E-01	2.15E+00	2.15E+02
RP-19-SUB	Nickel-59	-8.34E-02	U	2.06E-01	3.78E-01	2.15E+00	2.15E+02
RP-20-SUB	Nickel-59	1.19E-01	U	2.51E-01	4.44E-01	2.15E+00	2.15E+02
RP-28-SUB	Nickel-59	1.14E-01	U	1.99E-01	3.51E-01	2.15E+00	2.15E+02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Nickel-59	2.40E-01	UJ	2.52E-01	4.33E-01	2.15E+00	2.15E+02
BP-2-SUR	Nickel-59	3.44E-01	UJ	3.61E-01	6.20E-01	2.15E+00	2.15E+02
BP-3-SUR	Nickel-59	1.73E-01	UJ	3.21E-01	5.66E-01	2.15E+00	2.15E+02
BP-4-SUR	Nickel-59	-5.02E-02	UJ	2.43E-01	4.42E-01	2.15E+00	2.15E+02
BP-5-SUR	Nickel-59	-5.31E-02	UJ	2.94E-01	5.36E-01	2.15E+00	2.15E+02
BP-6-SUR	Nickel-59	1.18E-01	UJ	3.67E-01	6.56E-01	2.15E+00	2.15E+02
BP-7-SUR	Nickel-59	-5.19E-03	UJ	3.01E-01	5.45E-01	2.15E+00	2.15E+02
BP-8-SUR	Nickel-59	2.24E-02	UJ	3.93E-01	7.12E-01	2.15E+00	2.15E+02
BP-9-SUR	Nickel-59	-5.80E-03	UJ	3.27E-01	5.93E-01	2.15E+00	2.15E+02
BP-10-SUR	Nickel-59	1.04E-01	UJ	3.21E-01	5.73E-01	2.15E+00	2.15E+02
BP-11-SUR	Nickel-59	-1.03E-01	UJ	3.56E-01	6.54E-01	2.15E+00	2.15E+02
BP-12-SUR	Nickel-59	7.98E-02	UJ	3.09E-01	5.53E-01	2.15E+00	2.15E+02
BP-13-SUR	Nickel-59	-3.22E-02	UJ	3.25E-01	5.92E-01	2.15E+00	2.15E+02
BP-14-SUR	Nickel-59	5.20E-01	J	3.51E-01	5.71E-01	2.15E+00	2.15E+02
BP-15-SUR	Nickel-59	-1.44E-01	UJ	3.60E-01	6.59E-01	2.15E+00	2.15E+02
BP-16-SUR	Nickel-59	1.26E-01	UJ	2.33E-01	4.13E-01	2.15E+00	2.15E+02
BP-17-SUR	Nickel-59	-8.27E-02	UJ	3.65E-01	6.65E-01	2.15E+00	2.15E+02
BP-18-SUR	Nickel-59	3.18E-02	UJ	3.41E-01	6.17E-01	2.15E+00	2.15E+02
BP-19-SUR	Nickel-59	-1.69E-01	UJ	2.87E-01	5.15E-01	2.15E+00	2.15E+02
BP-20-SUR	Nickel-59	-1.10E-01	UJ	4.07E-01	7.42E-01	2.15E+00	2.15E+02
BP-21-SUR	Nickel-59	-1.68E-01	UJ	3.04E-01	5.57E-01	2.15E+00	2.15E+02
BP-22-SUR	Nickel-59	-1.94E-02	UJ	2.57E-01	4.58E-01	2.15E+00	2.15E+02
BP-23-SUR	Nickel-59	-1.76E-01	UJ	4.04E-01	7.41E-01	2.15E+00	2.15E+02
BP-24-SUR	Nickel-59	-1.18E-01	UJ	2.72E-01	4.99E-01	2.15E+00	2.15E+02
BP-25-SUR	Nickel-59	1.08E-01	UJ	3.03E-01	5.33E-01	2.15E+00	2.15E+02
BP-26-SUR	Nickel-59	-6.78E-01	RUJ	3.97E-01	7.28E-01	2.15E+00	2.15E+02
BP-27-SUR	Nickel-59	-1.01E-01	UJ	2.03E-01	3.65E-01	2.15E+00	2.15E+02
BP-28-SUR	Nickel-59	-7.20E-01	UJ	8.34E-01	1.54E+00	2.15E+00	2.15E+02
BP-29-SUR	Nickel-59	-3.07E-01	ULJ	2.96E-01	5.48E-01	2.15E+00	2.15E+02
BP-30-SUR	Nickel-59	-9.14E-02	UJ	3.08E-01	5.51E-01	2.15E+00	2.15E+02
BP-31-SUR	Nickel-59	9.66E-02	UJ	2.18E-01	3.81E-01	2.15E+00	2.15E+02
BP-32-SUR	Nickel-59	-1.80E-01	UJ	2.72E-01	5.01E-01	2.15E+00	2.15E+02
BP-33-SUR	Nickel-59	-7.71E-02	UJ	2.80E-01	5.12E-01	2.15E+00	2.15E+02
BP-34-SUR	Nickel-59	-2.94E-02	ULJ	1.50E-01	2.73E-01	2.15E+00	2.15E+02
BP-35-SUR	Nickel-59	1.02E-01	UJ	3.52E-01	6.44E-01	2.15E+00	2.15E+02
BP-36-SUR	Nickel-59	1.52E-01	UJ	3.49E-01	6.34E-01	2.15E+00	2.15E+02
BP-37-SUR	Nickel-59	-8.67E-02	UJ	3.32E-01	6.30E-01	2.15E+00	2.15E+02
BP-38-SUR	Nickel-59	-9.02E-02	UJ	2.82E-01	5.36E-01	2.15E+00	2.15E+02
BP-39-SUR	Nickel-59	1.04E-01	UJ	3.45E-01	6.31E-01	2.15E+00	2.15E+02
BP-40-SUR	Nickel-59	1.60E+00	J	5.45E-01	6.76E-01	2.15E+00	2.15E+02
BP-41-SUR	Nickel-59	1.27E-01	UJ	2.59E-01	4.69E-01	2.15E+00	2.15E+02
BP-42-SUR	Nickel-59	-5.41E-02	UJ	2.44E-01	4.62E-01	2.15E+00	2.15E+02

Table 6.29 - Nickel-59 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Nickel-59	-2.05E-02	UJ	3.06E-01	5.75E-01	2.15E+00	2.15E+02
BP-44-SUR	Nickel-59	-3.83E-02	UJ	3.07E-01	5.77E-01	2.15E+00	2.15E+02
BP-45-SUR	Nickel-59	-4.00E-02	UJ	3.21E-01	6.04E-01	2.15E+00	2.15E+02
BP-46-SUR	Nickel-59	5.54E-02	UJ	2.94E-01	5.43E-01	2.15E+00	2.15E+02
BP-47-SUR	Nickel-59	-1.30E-01	UJ	2.83E-01	5.42E-01	2.15E+00	2.15E+02
BP-48-SUR	Nickel-59	-2.03E-01	UJ	2.27E-01	4.42E-01	2.15E+00	2.15E+02
BP-49-SUR	Nickel-59	-7.86E-02	UJ	2.31E-01	4.25E-01	2.15E+00	2.15E+02
BP-50-SUR	Nickel-59	-2.18E-01	UJ	2.87E-01	5.55E-01	2.15E+00	2.15E+02
BP-51-SUR	Nickel-59	-3.90E-02	UJ	2.02E-01	3.82E-01	2.15E+00	2.15E+02
BP-52-SUR	Nickel-59	1.09E-01	UJ	3.53E-01	6.47E-01	2.15E+00	2.15E+02
BP-53-SUR	Nickel-59	-4.22E-02	UJ	3.38E-01	6.37E-01	2.15E+00	2.15E+02
BP-54-SUR	Nickel-59	-1.46E-01	UJ	3.18E-01	6.09E-01	2.15E+00	2.15E+02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Nickel-59	-1.24E-01	UJ	2.39E-01	4.38E-01	2.15E+00	2.15E+02
BP-4-SUB	Nickel-59	-1.15E-01	UJ	2.34E-01	4.29E-01	2.15E+00	2.15E+02
BP-5-SUB	Nickel-59	-2.51E-01	UJ	3.13E-01	5.78E-01	2.15E+00	2.15E+02
BP-9-SUB	Nickel-59	2.81E-01	UJ	3.40E-01	5.89E-01	2.15E+00	2.15E+02
BP-12-SUB	Nickel-59	-6.95E-01	RUJ	3.29E-01	6.01E-01	2.15E+00	2.15E+02
BP-13-SUB	Nickel-59	1.60E-01	UJ	2.46E-01	4.30E-01	2.15E+00	2.15E+02
BP-14-SUB	Nickel-59	-2.96E-01	ULJ	4.71E-01	8.70E-01	2.15E+00	2.15E+02
BP-16-SUB	Nickel-59	-7.95E-01	UR	1.69E+00	3.11E+00	2.15E+00	2.15E+02
BP-20-SUB	Nickel-59	-1.84E-01	UJ	3.64E-01	6.69E-01	2.15E+00	2.15E+02
BP-23-SUB	Nickel-59	1.52E-03	UJ	2.41E-01	4.36E-01	2.15E+00	2.15E+02
BP-29-SUB	Nickel-59	2.06E-01	J	1.80E-01	3.02E-01	2.15E+00	2.15E+02
BP-34-SUB	Nickel-59	-9.81E-02	UJ	3.37E-01	6.16E-01	2.15E+00	2.15E+02
BP-35-SUB	Nickel-59	-2.11E-01	UJ	3.21E-01	5.92E-01	2.15E+00	2.15E+02
BP-38-SUB	Nickel-59	-3.75E-01	UJ	4.11E-01	7.59E-01	2.15E+00	2.15E+02
BP-43-SUB	Nickel-59	-1.00E-01	UJ	3.53E-01	6.56E-01	2.15E+00	2.15E+02
BP-45-SUB	Nickel-59	8.07E-02	UJ	3.06E-01	5.48E-01	2.15E+00	2.15E+02
BP-46-SUB	Nickel-59	2.33E-01	UJ	3.52E-01	6.16E-01	2.15E+00	2.15E+02
BP-48-SUB	Nickel-59	2.17E-01	UJ	3.13E-01	5.45E-01	2.15E+00	2.15E+02
BP-50-SUB	Nickel-59	1.63E-01	UJ	2.51E-01	4.40E-01	2.15E+00	2.15E+02
BP-51-SUB	Nickel-59	1.25E-01	UJ	2.72E-01	4.82E-01	2.15E+00	2.15E+02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.30 - Nickel-63 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Nickel-63	4.52E-01	U	4.69E-01	8.22E-01	1.01E+00	1.01E+02
LR-2-SUR	Nickel-63	7.31E-02	U	4.87E-01	9.13E-01	1.01E+00	1.01E+02
LR-3-SUR	Nickel-63	-1.14E-01	U	3.97E-01	7.60E-01	1.01E+00	1.01E+02
LR-4-SUR	Nickel-63	1.05E-01	U	3.30E-01	6.12E-01	1.01E+00	1.01E+02
LR-5-SUR	Nickel-63	4.32E-01	U	4.40E-01	7.70E-01	1.01E+00	1.01E+02
LR-6-SUR	Nickel-63	-3.96E-01	UJ	6.57E-01	1.28E+00	1.01E+00	1.01E+02
LR-7-SUR	Nickel-63	-1.50E-01	U	3.47E-01	6.70E-01	1.01E+00	1.01E+02
LR-8-SUR	Nickel-63	-1.76E-01	U	2.92E-01	5.68E-01	1.01E+00	1.01E+02
LR-9-SUR	Nickel-63	-7.58E-02	U	3.73E-01	7.10E-01	1.01E+00	1.01E+02
LR-10-SUR	Nickel-63	1.92E-01	UJ	5.36E-01	9.89E-01	1.01E+00	1.01E+02
LR-11-SUR	Nickel-63	1.61E-01	U	5.07E-01	9.38E-01	1.01E+00	1.01E+02
LR-12-SUR	Nickel-63	9.67E-02	U	4.12E-01	7.68E-01	1.01E+00	1.01E+02
LR-13-SUR	Nickel-63	1.81E-01	U	3.34E-01	6.07E-01	1.01E+00	1.01E+02
LR-14-SUR	Nickel-63	0.00E+00	U	4.26E-01	8.01E-01	1.01E+00	1.01E+02
LR-15-SUR	Nickel-63	-6.41E-02	UJ	2.49E-01	4.78E-01	1.01E+00	1.01E+02
LR-16-SUR	Nickel-63	-2.25E-01	U	5.21E-01	1.01E+00	1.01E+00	1.01E+02
LR-17-SUR	Nickel-63	-3.61E-02	UJ	4.46E-01	8.43E-01	1.01E+00	1.01E+02
LR-18-SUR	Nickel-63	-4.07E-01	U	5.25E-01	1.03E+00	1.01E+00	1.01E+02
LR-19-SUR	Nickel-63	6.26E-03	U	2.84E-01	5.32E-01	1.01E+00	1.01E+02
LR-20-SUR	Nickel-63	-1.14E-02	UJ	2.68E-01	5.08E-01	1.01E+00	1.01E+02
LR-21-SUR	Nickel-63	-5.77E-02	U	2.86E-01	5.45E-01	1.01E+00	1.01E+02
LR-22-SUR	Nickel-63	1.76E-01	U	3.01E-01	5.36E-01	1.01E+00	1.01E+02
LR-23-SUR	Nickel-63	3.49E-02	U	2.66E-01	4.95E-01	1.01E+00	1.01E+02
LR-24-SUR	Nickel-63	-1.12E-01	U	2.57E-01	4.99E-01	1.01E+00	1.01E+02
LR-25-SUR	Nickel-63	7.22E-02	UJ	2.33E-01	4.30E-01	1.01E+00	1.01E+02
LR-26-SUR	Nickel-63	-4.80E-02	UJ	2.49E-01	4.77E-01	1.01E+00	1.01E+02
LR-27-SUR	Nickel-63	-1.86E-02	U	2.79E-01	5.26E-01	1.01E+00	1.01E+02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Nickel-63	8.08E-02	U	3.87E-01	7.21E-01	1.01E+00	1.01E+02
LR-4-SUB	Nickel-63	0.00E+00	U	3.75E-01	7.08E-01	1.01E+00	1.01E+02
LR-9-SUB	Nickel-63	6.58E-03	UJ	3.11E-01	5.87E-01	1.01E+00	1.01E+02
LR-13-SUB	Nickel-63	2.07E-01	U	5.03E-01	9.24E-01	1.01E+00	1.01E+02
LR-15-SUB	Nickel-63	4.22E-02	UJ	2.52E-01	4.72E-01	1.01E+00	1.01E+02
LR-18-SUB	Nickel-63	-3.07E-02	U	4.80E-01	9.12E-01	1.01E+00	1.01E+02
LR-19-SUB	Nickel-63	-1.10E-02	UJ	2.61E-01	4.94E-01	1.01E+00	1.01E+02
LR-23-SUB	Nickel-63	-3.55E-02	UJ	2.78E-01	5.29E-01	1.01E+00	1.01E+02
LR-24-SUB	Nickel-63	-3.33E-02	UJ	2.60E-01	4.96E-01	1.01E+00	1.01E+02
LR-26-SUB	Nickel-63	-1.93E-01	UJ	3.26E-01	6.39E-01	1.01E+00	1.01E+02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Nickel-63	1.48E-01	U	2.23E-01	3.94E-01	1.01E+00	1.01E+02
RP-2-SUR	Nickel-63	5.24E-02	U	2.42E-01	4.45E-01	1.01E+00	1.01E+02
RP-3-SUR	Nickel-63	-1.26E-01	U	2.09E-01	4.12E-01	1.01E+00	1.01E+02
RP-4-SUR	Nickel-63	-3.51E-02	U	3.15E-01	5.96E-01	1.01E+00	1.01E+02
RP-5-SUR	Nickel-63	7.04E-02	UJ	2.01E-01	3.71E-01	1.01E+00	1.01E+02
RP-6-SUR	Nickel-63	-1.82E-01	U	2.60E-01	5.15E-01	1.01E+00	1.01E+02
RP-7-SUR	Nickel-63	2.23E-01	U	5.06E-01	9.28E-01	1.01E+00	1.01E+02
RP-8-SUR	Nickel-63	6.99E-02	UJ	2.53E-01	4.70E-01	1.01E+00	1.01E+02
RP-9-SUR	Nickel-63	2.04E-02	UJ	3.15E-01	5.95E-01	1.01E+00	1.01E+02
RP-10-SUR	Nickel-63	-2.54E-02	U	2.91E-01	5.55E-01	1.01E+00	1.01E+02
RP-11-SUR	Nickel-63	1.09E-02	U	2.75E-01	5.16E-01	1.01E+00	1.01E+02
RP-12-SUR	Nickel-63	-2.31E-01	U	2.81E-01	5.54E-01	1.01E+00	1.01E+02
RP-13-SUR	Nickel-63	2.57E-01	U	3.10E-01	5.51E-01	1.01E+00	1.01E+02
RP-14-SUR	Nickel-63	1.58E-01	U	4.09E-01	7.55E-01	1.01E+00	1.01E+02
RP-15-SUR	Nickel-63	-9.50E-02	UJ	3.07E-01	5.93E-01	1.01E+00	1.01E+02
RP-16-SUR	Nickel-63	-5.32E-03	U	2.67E-01	5.03E-01	1.01E+00	1.01E+02
RP-17-SUR	Nickel-63	-1.69E-01	U	2.84E-01	5.52E-01	1.01E+00	1.01E+02
RP-18-SUR	Nickel-63	-6.28E-02	U	3.48E-01	6.60E-01	1.01E+00	1.01E+02
RP-19-SUR	Nickel-63	3.58E-02	UJ	5.80E-01	1.09E+00	1.01E+00	1.01E+02
RP-20-SUR	Nickel-63	-2.23E-01	U	3.17E-01	6.19E-01	1.01E+00	1.01E+02
RP-21-SUR	Nickel-63	1.26E-01	U	4.32E-01	7.96E-01	1.01E+00	1.01E+02

Table 6.30 - Nickel-63 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Nickel-63	7.00E-03	U	3.53E-01	6.62E-01	1.01E+00	1.01E+02
RP-23-SUR	Nickel-63	-1.41E-01	U	2.88E-01	5.56E-01	1.01E+00	1.01E+02
RP-24-SUR	Nickel-63	-1.09E-01	U	2.82E-01	5.42E-01	1.01E+00	1.01E+02
RP-25-SUR	Nickel-63	-1.41E-01	U	2.65E-01	5.14E-01	1.01E+00	1.01E+02
RP-26-SUR	Nickel-63	4.25E-02	U	3.46E-01	6.47E-01	1.01E+00	1.01E+02
RP-27-SUR	Nickel-63	-3.11E-02	U	2.49E-01	4.74E-01	1.01E+00	1.01E+02
RP-28-SUR	Nickel-63	0.00E+00	UJ	2.54E-01	4.80E-01	1.01E+00	1.01E+02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Nickel-63	-1.74E-02	U	4.19E-01	7.92E-01	1.01E+00	1.01E+02
RP-5-SUB	Nickel-63	-7.02E-02	U	3.73E-01	7.11E-01	1.01E+00	1.01E+02
RP-7-SUB	Nickel-63	7.30E-02	UJ	2.52E-01	4.66E-01	1.01E+00	1.01E+02
RP-12-SUB	Nickel-63	-2.29E-01	U	3.69E-01	7.22E-01	1.01E+00	1.01E+02
RP-13-SUB	Nickel-63	-2.00E-01	U	3.90E-01	7.59E-01	1.01E+00	1.01E+02
RP-17-SUB	Nickel-63	-3.52E-02	U	4.24E-01	8.03E-01	1.01E+00	1.01E+02
RP-18-SUB	Nickel-63	-1.17E-02	U	2.83E-01	5.36E-01	1.01E+00	1.01E+02
RP-19-SUB	Nickel-63	2.15E-01	U	2.59E-01	4.59E-01	1.01E+00	1.01E+02
RP-20-SUB	Nickel-63	-3.94E-02	U	3.15E-01	5.99E-01	1.01E+00	1.01E+02
RP-28-SUB	Nickel-63	-1.52E-02	U	2.38E-01	4.52E-01	1.01E+00	1.01E+02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Nickel-63	-9.68E-02	UJ	3.28E-01	6.30E-01	1.01E+00	1.01E+02
BP-2-SUR	Nickel-63	-3.60E-01	UJ	4.61E-01	9.10E-01	1.01E+00	1.01E+02
BP-3-SUR	Nickel-63	8.89E-02	UJ	3.93E-01	7.30E-01	1.01E+00	1.01E+02
BP-4-SUR	Nickel-63	1.55E-01	UJ	3.08E-01	5.60E-01	1.01E+00	1.01E+02
BP-5-SUR	Nickel-63	2.24E-01	UJ	3.73E-01	6.73E-01	1.01E+00	1.01E+02
BP-6-SUR	Nickel-63	-4.83E-02	UJ	4.59E-01	8.72E-01	1.01E+00	1.01E+02
BP-7-SUR	Nickel-63	2.20E-01	UJ	3.80E-01	6.87E-01	1.01E+00	1.01E+02
BP-8-SUR	Nickel-63	2.09E-02	UJ	5.01E-01	9.43E-01	1.01E+00	1.01E+02
BP-9-SUR	Nickel-63	6.86E-02	UJ	4.15E-01	7.75E-01	1.01E+00	1.01E+02
BP-10-SUR	Nickel-63	1.67E-02	UJ	4.00E-01	7.52E-01	1.01E+00	1.01E+02
BP-11-SUR	Nickel-63	-1.45E-01	UJ	4.53E-01	8.73E-01	1.01E+00	1.01E+02
BP-12-SUR	Nickel-63	3.19E-02	UJ	3.84E-01	7.22E-01	1.01E+00	1.01E+02
BP-13-SUR	Nickel-63	2.58E-02	UJ	4.14E-01	7.78E-01	1.01E+00	1.01E+02
BP-14-SUR	Nickel-63	-2.26E-01	UJ	4.23E-01	8.24E-01	1.01E+00	1.01E+02
BP-15-SUR	Nickel-63	3.89E-01	UJ	4.62E-01	8.18E-01	1.01E+00	1.01E+02
BP-16-SUR	Nickel-63	-1.60E-01	UJ	3.11E-01	6.05E-01	1.01E+00	1.01E+02
BP-17-SUR	Nickel-63	3.30E-01	UJ	4.63E-01	8.28E-01	1.01E+00	1.01E+02
BP-18-SUR	Nickel-63	4.46E-02	UJ	4.31E-01	8.07E-01	1.01E+00	1.01E+02
BP-19-SUR	Nickel-63	5.06E-01	J	3.78E-01	6.35E-01	1.01E+00	1.01E+02
BP-20-SUR	Nickel-63	1.70E-01	UJ	4.53E-01	8.35E-01	1.01E+00	1.01E+02
BP-21-SUR	Nickel-63	1.21E-01	UJ	3.61E-01	6.68E-01	1.01E+00	1.01E+02
BP-22-SUR	Nickel-63	2.86E-01	UJ	3.31E-01	5.78E-01	1.01E+00	1.01E+02
BP-23-SUR	Nickel-63	-2.87E-01	UJ	4.62E-01	9.09E-01	1.01E+00	1.01E+02
BP-24-SUR	Nickel-63	-1.37E-02	UJ	3.19E-01	6.06E-01	1.01E+00	1.01E+02
BP-25-SUR	Nickel-63	1.47E-01	UJ	3.85E-01	6.94E-01	1.01E+00	1.01E+02
BP-26-SUR	Nickel-63	1.49E-01	UJ	4.75E-01	8.79E-01	1.01E+00	1.01E+02
BP-27-SUR	Nickel-63	3.04E-01	J	2.64E-01	4.52E-01	1.01E+00	1.01E+02
BP-28-SUR	Nickel-63	-1.66E-01	UJ	9.58E-01	1.83E+00	1.01E+00	1.01E+02
BP-29-SUR	Nickel-63	-2.14E-01	UJ	3.44E-01	6.76E-01	1.01E+00	1.01E+02
BP-30-SUR	Nickel-63	5.00E-01	J	3.97E-01	6.72E-01	1.01E+00	1.01E+02
BP-31-SUR	Nickel-63	1.13E-01	UJ	2.73E-01	4.91E-01	1.01E+00	1.01E+02
BP-32-SUR	Nickel-63	7.48E-02	UJ	3.23E-01	6.02E-01	1.01E+00	1.01E+02
BP-33-SUR	Nickel-63	-1.55E-01	UJ	3.19E-01	6.23E-01	1.01E+00	1.01E+02
BP-34-SUR	Nickel-63	-1.90E-02	ULJ	1.76E-01	3.36E-01	1.01E+00	1.01E+02
BP-35-SUR	Nickel-63	1.14E-01	UJ	4.05E-01	7.81E-01	1.01E+00	1.01E+02
BP-36-SUR	Nickel-63	-1.72E-01	UJ	3.86E-01	7.97E-01	1.01E+00	1.01E+02
BP-37-SUR	Nickel-63	-2.43E-02	UJ	3.96E-01	7.91E-01	1.01E+00	1.01E+02
BP-38-SUR	Nickel-63	-9.21E-02	UJ	3.27E-01	6.65E-01	1.01E+00	1.01E+02
BP-39-SUR	Nickel-63	4.23E-02	UJ	4.01E-01	7.86E-01	1.01E+00	1.01E+02
BP-40-SUR	Nickel-63	-6.58E-02	UJ	4.25E-01	8.56E-01	1.01E+00	1.01E+02
BP-41-SUR	Nickel-63	-4.43E-02	UJ	2.86E-01	5.76E-01	1.01E+00	1.01E+02
BP-42-SUR	Nickel-63	-4.41E-02	UJ	2.85E-01	5.74E-01	1.01E+00	1.01E+02

Table 6.30 - Nickel-63 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Nickel-63	-5.47E-02	UJ	3.54E-01	7.12E-01	1.01E+00	1.01E+02
BP-44-SUR	Nickel-63	-1.97E-01	UJ	3.50E-01	7.31E-01	1.01E+00	1.01E+02
BP-45-SUR	Nickel-63	-1.62E-01	UJ	3.63E-01	7.51E-01	1.01E+00	1.01E+02
BP-46-SUR	Nickel-63	-1.23E-01	UJ	3.25E-01	6.68E-01	1.01E+00	1.01E+02
BP-47-SUR	Nickel-63	-5.14E-02	UJ	3.32E-01	6.69E-01	1.01E+00	1.01E+02
BP-48-SUR	Nickel-63	-2.34E-01	UJ	2.57E-01	5.53E-01	1.01E+00	1.01E+02
BP-49-SUR	Nickel-63	-3.12E-02	UJ	3.02E-01	5.73E-01	1.01E+00	1.01E+02
BP-50-SUR	Nickel-63	-1.14E-01	UJ	3.46E-01	7.08E-01	1.01E+00	1.01E+02
BP-51-SUR	Nickel-63	-1.12E-01	UJ	2.35E-01	4.87E-01	1.01E+00	1.01E+02
BP-52-SUR	Nickel-63	-1.30E-01	UJ	3.92E-01	8.03E-01	1.01E+00	1.01E+02
BP-53-SUR	Nickel-63	-6.69E-02	UJ	3.93E-01	7.91E-01	1.01E+00	1.01E+02
BP-54-SUR	Nickel-63	-8.16E-02	UJ	3.75E-01	7.58E-01	1.01E+00	1.01E+02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Nickel-63	2.43E-01	UJ	2.99E-01	5.31E-01	1.01E+00	1.01E+02
BP-4-SUB	Nickel-63	1.21E-01	UJ	2.73E-01	5.01E-01	1.01E+00	1.01E+02
BP-5-SUB	Nickel-63	1.52E-01	UJ	3.76E-01	6.92E-01	1.01E+00	1.01E+02
BP-9-SUB	Nickel-63	1.27E-01	UJ	4.17E-01	7.75E-01	1.01E+00	1.01E+02
BP-12-SUB	Nickel-63	4.08E-01	UJ	4.21E-01	7.40E-01	1.01E+00	1.01E+02
BP-13-SUB	Nickel-63	2.48E-02	UJ	2.95E-01	5.55E-01	1.01E+00	1.01E+02
BP-14-SUB	Nickel-63	-1.24E-02	ULJ	5.67E-01	1.08E+00	1.01E+00	1.01E+02
BP-16-SUB	Nickel-63	1.78E-01	UR	2.04E+00	3.86E+00	1.01E+00	1.01E+02
BP-20-SUB	Nickel-63	1.02E-01	UJ	4.30E-01	8.01E-01	1.01E+00	1.01E+02
BP-23-SUB	Nickel-63	4.79E-02	UJ	2.77E-01	5.19E-01	1.01E+00	1.01E+02
BP-29-SUB	Nickel-63	-1.07E-01	UJ	1.96E-01	3.84E-01	1.01E+00	1.01E+02
BP-34-SUB	Nickel-63	-5.20E-02	UJ	3.92E-01	7.51E-01	1.01E+00	1.01E+02
BP-35-SUB	Nickel-63	9.76E-02	UJ	3.79E-01	7.05E-01	1.01E+00	1.01E+02
BP-38-SUB	Nickel-63	3.45E-01	UJ	4.89E-01	8.79E-01	1.01E+00	1.01E+02
BP-43-SUB	Nickel-63	-2.68E-01	UJ	4.30E-01	8.56E-01	1.01E+00	1.01E+02
BP-45-SUB	Nickel-63	1.14E-01	UJ	3.61E-01	6.68E-01	1.01E+00	1.01E+02
BP-46-SUB	Nickel-63	-3.32E-01	UJ	3.82E-01	7.65E-01	1.01E+00	1.01E+02
BP-48-SUB	Nickel-63	6.16E-02	UJ	3.60E-01	6.75E-01	1.01E+00	1.01E+02
BP-50-SUB	Nickel-63	-1.58E-01	UJ	2.81E-01	5.52E-01	1.01E+00	1.01E+02
BP-51-SUB	Nickel-63	4.77E-02	UJ	3.18E-01	5.97E-01	1.01E+00	1.01E+02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.31 - Niobium-94 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Niobium-94	1.15E-02	SK	6.76E-03	6.59E-03	1.15E-02	1.15E+00
LR-2-SUR	Niobium-94	4.92E-03	SK	3.70E-03	5.99E-03	1.15E-02	1.15E+00
LR-3-SUR	Niobium-94	4.14E-03	USK	4.68E-03	7.67E-03	1.15E-02	1.15E+00
LR-4-SUR	Niobium-94	5.32E-03	SK	4.64E-03	7.57E-03	1.15E-02	1.15E+00
LR-5-SUR	Niobium-94	1.63E-02	SK	6.34E-03	6.18E-03	1.15E-02	1.15E+00
LR-6-SUR	Niobium-94	9.71E-03	SK	5.52E-03	5.93E-03	1.15E-02	1.15E+00
LR-7-SUR	Niobium-94	4.43E-03	USK	4.48E-03	7.34E-03	1.15E-02	1.15E+00
LR-8-SUR	Niobium-94	1.15E-02	SK	6.38E-03	6.30E-03	1.15E-02	1.15E+00
LR-9-SUR	Niobium-94	4.35E-03	USK	4.70E-03	7.71E-03	1.15E-02	1.15E+00
LR-10-SUR	Niobium-94	4.18E-03	USK	4.76E-03	7.80E-03	1.15E-02	1.15E+00
LR-11-SUR	Niobium-94	5.19E-03	SK	4.76E-03	7.76E-03	1.15E-02	1.15E+00
LR-12-SUR	Niobium-94	4.16E-03	USK	4.46E-03	7.32E-03	1.15E-02	1.15E+00
LR-13-SUR	Niobium-94	4.64E-03	SK	4.40E-03	7.20E-03	1.15E-02	1.15E+00
LR-14-SUR	Niobium-94	3.05E-03	USK	4.26E-03	7.02E-03	1.15E-02	1.15E+00
LR-15-SUR	Niobium-94	3.15E-03	USK	3.37E-03	7.84E-03	1.15E-02	1.15E+00
LR-16-SUR	Niobium-94	4.20E-03	USK	4.36E-03	7.14E-03	1.15E-02	1.15E+00
LR-17-SUR	Niobium-94	1.01E-02	SK	5.10E-03	5.27E-03	1.15E-02	1.15E+00
LR-18-SUR	Niobium-94	4.21E-03	USK	4.64E-03	7.62E-03	1.15E-02	1.15E+00
LR-19-SUR	Niobium-94	1.16E-02	SK	7.14E-03	6.97E-03	1.15E-02	1.15E+00
LR-20-SUR	Niobium-94	2.29E-03	USK	4.91E-03	8.13E-03	1.15E-02	1.15E+00
LR-21-SUR	Niobium-94	5.11E-03	SK	4.79E-03	7.82E-03	1.15E-02	1.15E+00
LR-22-SUR	Niobium-94	4.80E-03	SK	4.77E-03	7.80E-03	1.15E-02	1.15E+00
LR-23-SUR	Niobium-94	3.69E-03	USK	4.60E-03	7.55E-03	1.15E-02	1.15E+00
LR-24-SUR	Niobium-94	6.26E-03	SK	4.58E-03	7.42E-03	1.15E-02	1.15E+00
LR-25-SUR	Niobium-94	2.28E-03	USK	4.78E-03	7.89E-03	1.15E-02	1.15E+00
LR-26-SUR	Niobium-94	8.94E-03	SK	3.90E-03	6.08E-03	1.15E-02	1.15E+00
LR-27-SUR	Niobium-94	8.58E-03	SK	4.96E-03	5.53E-03	1.15E-02	1.15E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Niobium-94	5.22E-03	SK	4.67E-03	7.61E-03	1.15E-02	1.15E+00
LR-4-SUB	Niobium-94	6.15E-03	SK	4.38E-03	7.08E-03	1.15E-02	1.15E+00
LR-9-SUB	Niobium-94	5.43E-03	SK	4.53E-03	7.38E-03	1.15E-02	1.15E+00
LR-13-SUB	Niobium-94	1.04E-02	SK	6.64E-03	6.59E-03	1.15E-02	1.15E+00
LR-15-SUB	Niobium-94	4.02E-03	USK	5.32E-03	8.73E-03	1.15E-02	1.15E+00
LR-18-SUB	Niobium-94	3.45E-03	USK	4.80E-03	7.89E-03	1.15E-02	1.15E+00
LR-19-SUB	Niobium-94	4.28E-03	USK	4.88E-03	8.00E-03	1.15E-02	1.15E+00
LR-23-SUB	Niobium-94	1.16E-02	SK	6.68E-03	6.59E-03	1.15E-02	1.15E+00
LR-24-SUB	Niobium-94	6.73E-03	SK	4.52E-03	7.29E-03	1.15E-02	1.15E+00
LR-26-SUB	Niobium-94	1.11E-02	SK	6.32E-03	6.24E-03	1.15E-02	1.15E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Niobium-94	2.25E-03	USK	2.75E-03	6.12E-03	1.15E-02	1.15E+00
RP-2-SUR	Niobium-94	3.36E-03	USK	3.98E-03	6.53E-03	1.15E-02	1.15E+00
RP-3-SUR	Niobium-94	1.69E-03	USK	3.01E-03	4.97E-03	1.15E-02	1.15E+00
RP-4-SUR	Niobium-94	2.79E-03	USK	3.84E-03	6.31E-03	1.15E-02	1.15E+00
RP-5-SUR	Niobium-94	1.75E-03	USK	3.01E-03	4.96E-03	1.15E-02	1.15E+00
RP-6-SUR	Niobium-94	3.35E-03	USK	3.96E-03	6.49E-03	1.15E-02	1.15E+00
RP-7-SUR	Niobium-94	2.76E-03	USK	3.82E-03	6.28E-03	1.15E-02	1.15E+00
RP-8-SUR	Niobium-94	4.90E-03	SK	4.01E-03	6.52E-03	1.15E-02	1.15E+00
RP-9-SUR	Niobium-94	2.54E-03	USK	3.20E-03	5.26E-03	1.15E-02	1.15E+00
RP-10-SUR	Niobium-94	2.79E-03	USK	3.92E-03	6.45E-03	1.15E-02	1.15E+00
RP-11-SUR	Niobium-94	8.77E-05	USK	3.92E-03	6.52E-03	1.15E-02	1.15E+00
RP-12-SUR	Niobium-94	2.66E-03	USK	3.72E-03	6.12E-03	1.15E-02	1.15E+00
RP-13-SUR	Niobium-94	4.15E-03	SK	3.63E-03	5.91E-03	1.15E-02	1.15E+00
RP-14-SUR	Niobium-94	8.27E-03	SK	5.06E-03	5.08E-03	1.15E-02	1.15E+00
RP-15-SUR	Niobium-94	8.06E-03	SK	4.60E-03	4.84E-03	1.15E-02	1.15E+00
RP-16-SUR	Niobium-94	3.37E-03	USK	3.68E-03	6.03E-03	1.15E-02	1.15E+00
RP-17-SUR	Niobium-94	9.86E-03	SK	5.80E-03	5.49E-03	1.15E-02	1.15E+00
RP-18-SUR	Niobium-94	9.42E-03	SK	4.74E-03	4.95E-03	1.15E-02	1.15E+00
RP-19-SUR	Niobium-94	9.85E-03	SK	5.41E-03	5.41E-03	1.15E-02	1.15E+00
RP-20-SUR	Niobium-94	1.05E-02	SK	5.28E-03	5.26E-03	1.15E-02	1.15E+00
RP-21-SUR	Niobium-94	1.91E-03	USK	3.75E-03	6.20E-03	1.15E-02	1.15E+00

Table 6.31 - Niobium-94 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Niobium-94	3.04E-03	USK	3.83E-03	6.30E-03	1.15E-02	1.15E+00
RP-23-SUR	Niobium-94	6.41E-03	SK	4.23E-03	4.74E-03	1.15E-02	1.15E+00
RP-24-SUR	Niobium-94	2.02E-04	USK	3.71E-03	6.17E-03	1.15E-02	1.15E+00
RP-25-SUR	Niobium-94	3.63E-03	USK	3.93E-03	6.43E-03	1.15E-02	1.15E+00
RP-26-SUR	Niobium-94	3.73E-03	USK	3.92E-03	6.41E-03	1.15E-02	1.15E+00
RP-27-SUR	Niobium-94	3.66E-03	USK	4.01E-03	6.57E-03	1.15E-02	1.15E+00
RP-28-SUR	Niobium-94	1.32E-03	USK	4.18E-03	6.92E-03	1.15E-02	1.15E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Niobium-94	4.63E-03	SK	3.77E-03	6.13E-03	1.15E-02	1.15E+00
RP-5-SUB	Niobium-94	4.34E-03	SK	4.12E-03	6.72E-03	1.15E-02	1.15E+00
RP-7-SUB	Niobium-94	2.36E-03	USK	4.00E-03	6.60E-03	1.15E-02	1.15E+00
RP-12-SUB	Niobium-94	5.00E-03	SK	3.57E-03	5.77E-03	1.15E-02	1.15E+00
RP-13-SUB	Niobium-94	8.46E-03	SK	5.18E-03	5.29E-03	1.15E-02	1.15E+00
RP-17-SUB	Niobium-94	3.33E-03	USK	4.01E-03	6.59E-03	1.15E-02	1.15E+00
RP-18-SUB	Niobium-94	3.38E-03	USK	4.13E-03	6.77E-03	1.15E-02	1.15E+00
RP-19-SUB	Niobium-94	4.45E-03	SK	3.91E-03	6.37E-03	1.15E-02	1.15E+00
RP-20-SUB	Niobium-94	4.73E-03	SK	3.96E-03	6.44E-03	1.15E-02	1.15E+00
RP-28-SUB	Niobium-94	4.42E-03	SK	3.94E-03	6.43E-03	1.15E-02	1.15E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Niobium-94	4.98E-03	SK	4.74E-03	7.75E-03	1.15E-02	1.15E+00
BP-2-SUR	Niobium-94	8.82E-03	SK	4.93E-03	7.88E-03	1.15E-02	1.15E+00
BP-3-SUR	Niobium-94	5.94E-03	SK	4.93E-03	8.02E-03	1.15E-02	1.15E+00
BP-4-SUR	Niobium-94	5.64E-03	SK	5.03E-03	8.19E-03	1.15E-02	1.15E+00
BP-5-SUR	Niobium-94	5.23E-03	SK	5.04E-03	8.23E-03	1.15E-02	1.15E+00
BP-6-SUR	Niobium-94	7.05E-03	SK	5.13E-03	8.30E-03	1.15E-02	1.15E+00
BP-7-SUR	Niobium-94	7.04E-03	SK	5.21E-03	8.44E-03	1.15E-02	1.15E+00
BP-8-SUR	Niobium-94	7.84E-03	SK	5.02E-03	8.08E-03	1.15E-02	1.15E+00
BP-9-SUR	Niobium-94	1.43E-02	SK	7.51E-03	7.27E-03	1.15E-02	1.15E+00
BP-10-SUR	Niobium-94	1.61E-02	SK	6.09E-03	6.32E-03	1.15E-02	1.15E+00
BP-11-SUR	Niobium-94	9.59E-03	SK	7.36E-03	7.24E-03	1.15E-02	1.15E+00
BP-12-SUR	Niobium-94	8.86E-03	SK	5.70E-03	6.27E-03	1.15E-02	1.15E+00
BP-13-SUR	Niobium-94	5.09E-03	USK	5.37E-03	8.80E-03	1.15E-02	1.15E+00
BP-14-SUR	Niobium-94	1.33E-02	SK	5.63E-03	5.91E-03	1.15E-02	1.15E+00
BP-15-SUR	Niobium-94	7.36E-03	SK	4.93E-03	7.96E-03	1.15E-02	1.15E+00
BP-16-SUR	Niobium-94	7.42E-03	SK	4.92E-03	7.93E-03	1.15E-02	1.15E+00
BP-17-SUR	Niobium-94	4.69E-03	USK	4.84E-03	7.92E-03	1.15E-02	1.15E+00
BP-18-SUR	Niobium-94	1.50E-02	SK	6.16E-03	6.23E-03	1.15E-02	1.15E+00
BP-19-SUR	Niobium-94	8.18E-03	SK	5.27E-03	6.04E-03	1.15E-02	1.15E+00
BP-20-SUR	Niobium-94	1.08E-02	SK	5.04E-03	7.45E-03	1.15E-02	1.15E+00
BP-21-SUR	Niobium-94	5.46E-03	SK	5.06E-03	8.26E-03	1.15E-02	1.15E+00
BP-22-SUR	Niobium-94	5.51E-03	SK	5.24E-03	8.57E-03	1.15E-02	1.15E+00
BP-23-SUR	Niobium-94	1.17E-02	SK	5.93E-03	6.48E-03	1.15E-02	1.15E+00
BP-24-SUR	Niobium-94	5.73E-03	SK	5.28E-03	8.63E-03	1.15E-02	1.15E+00
BP-25-SUR	Niobium-94	7.26E-03	SK	5.16E-03	8.37E-03	1.15E-02	1.15E+00
BP-26-SUR	Niobium-94	9.17E-03	SK	6.95E-03	7.08E-03	1.15E-02	1.15E+00
BP-27-SUR	Niobium-94	6.39E-03	SK	5.17E-03	8.42E-03	1.15E-02	1.15E+00
BP-28-SUR	Niobium-94	1.22E-02	SK	6.84E-03	6.89E-03	1.15E-02	1.15E+00
BP-29-SUR	Niobium-94	6.98E-03	SK	4.88E-03	7.90E-03	1.15E-02	1.15E+00
BP-30-SUR	Niobium-94	6.33E-03	SK	4.94E-03	8.02E-03	1.15E-02	1.15E+00
BP-31-SUR	Niobium-94	7.50E-03	SK	4.90E-03	7.92E-03	1.15E-02	1.15E+00
BP-32-SUR	Niobium-94	1.61E-02	SK	7.00E-03	6.93E-03	1.15E-02	1.15E+00
BP-33-SUR	Niobium-94	7.28E-03	SK	5.04E-03	8.16E-03	1.15E-02	1.15E+00
BP-34-SUR	Niobium-94	7.66E-03	SK	5.21E-03	8.42E-03	1.15E-02	1.15E+00
BP-35-SUR	Niobium-94	9.19E-03	SK	4.84E-03	5.48E-03	1.15E-02	1.15E+00
BP-36-SUR	Niobium-94	5.78E-03	SK	4.84E-03	7.87E-03	1.15E-02	1.15E+00
BP-37-SUR	Niobium-94	1.23E-02	SK	6.75E-03	6.54E-03	1.15E-02	1.15E+00
BP-38-SUR	Niobium-94	4.14E-04	USK	3.26E-03	5.43E-03	1.15E-02	1.15E+00
BP-39-SUR	Niobium-94	4.55E-03	USK	4.59E-03	7.50E-03	1.15E-02	1.15E+00
BP-40-SUR	Niobium-94	5.62E-03	SK	4.67E-03	7.60E-03	1.15E-02	1.15E+00
BP-41-SUR	Niobium-94	5.31E-03	SK	4.95E-03	8.08E-03	1.15E-02	1.15E+00
BP-42-SUR	Niobium-94	3.19E-03	USK	3.30E-03	7.77E-03	1.15E-02	1.15E+00

Table 6.31 - Niobium-94 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Niobium-94	6.17E-03	SK	4.85E-03	7.89E-03	1.15E-02	1.15E+00
BP-44-SUR	Niobium-94	3.97E-03	USK	4.69E-03	7.70E-03	1.15E-02	1.15E+00
BP-45-SUR	Niobium-94	5.51E-03	SK	4.82E-03	7.86E-03	1.15E-02	1.15E+00
BP-46-SUR	Niobium-94	6.03E-03	SK	4.71E-03	7.65E-03	1.15E-02	1.15E+00
BP-47-SUR	Niobium-94	5.89E-03	SK	4.35E-03	7.08E-03	1.15E-02	1.15E+00
BP-48-SUR	Niobium-94	9.80E-03	SK	6.44E-03	6.71E-03	1.15E-02	1.15E+00
BP-49-SUR	Niobium-94	2.79E-03	USK	3.37E-03	5.54E-03	1.15E-02	1.15E+00
BP-50-SUR	Niobium-94	4.25E-03	USK	4.78E-03	7.82E-03	1.15E-02	1.15E+00
BP-51-SUR	Niobium-94	4.49E-03	SK	4.07E-03	6.65E-03	1.15E-02	1.15E+00
BP-52-SUR	Niobium-94	1.09E-02	SK	5.10E-03	5.26E-03	1.15E-02	1.15E+00
BP-53-SUR	Niobium-94	3.11E-03	USK	4.80E-03	7.91E-03	1.15E-02	1.15E+00
BP-54-SUR	Niobium-94	7.49E-03	SK	4.88E-03	5.03E-03	1.15E-02	1.15E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Niobium-94	2.60E-03	USK	3.96E-03	6.55E-03	1.15E-02	1.15E+00
BP-4-SUB	Niobium-94	9.25E-03	SK	6.13E-03	6.09E-03	1.15E-02	1.15E+00
BP-5-SUB	Niobium-94	1.27E-02	SK	6.89E-03	6.48E-03	1.15E-02	1.15E+00
BP-9-SUB	Niobium-94	8.94E-03	SK	4.53E-03	4.96E-03	1.15E-02	1.15E+00
BP-12-SUB	Niobium-94	4.60E-03	SK	4.53E-03	7.40E-03	1.15E-02	1.15E+00
BP-13-SUB	Niobium-94	7.64E-03	SK	4.98E-03	5.72E-03	1.15E-02	1.15E+00
BP-14-SUB	Niobium-94	6.56E-03	SK	4.63E-03	7.48E-03	1.15E-02	1.15E+00
BP-16-SUB	Niobium-94	4.88E-03	SK	4.04E-03	6.59E-03	1.15E-02	1.15E+00
BP-20-SUB	Niobium-94	3.93E-03	USK	4.62E-03	7.57E-03	1.15E-02	1.15E+00
BP-23-SUB	Niobium-94	6.67E-03	SK	4.43E-03	4.91E-03	1.15E-02	1.15E+00
BP-29-SUB	Niobium-94	3.99E-02	USK	7.23E-02	1.24E-01	1.15E-02	1.15E+00
BP-34-SUB	Niobium-94	6.68E-03	SK	4.97E-03	8.05E-03	1.15E-02	1.15E+00
BP-35-SUB	Niobium-94	1.01E-02	SK	5.45E-03	5.58E-03	1.15E-02	1.15E+00
BP-38-SUB	Niobium-94	8.67E-03	SK	5.35E-03	5.87E-03	1.15E-02	1.15E+00
BP-43-SUB	Niobium-94	5.34E-03	SK	4.75E-03	7.74E-03	1.15E-02	1.15E+00
BP-45-SUB	Niobium-94	4.60E-03	USK	4.74E-03	7.76E-03	1.15E-02	1.15E+00
BP-46-SUB	Niobium-94	6.18E-03	SK	5.54E-03	9.04E-03	1.15E-02	1.15E+00
BP-48-SUB	Niobium-94	5.20E-03	SK	4.74E-03	7.73E-03	1.15E-02	1.15E+00
BP-50-SUB	Niobium-94	6.96E-03	SK	4.70E-03	7.59E-03	1.15E-02	1.15E+00
BP-51-SUB	Niobium-94	5.40E-03	SK	4.91E-03	8.00E-03	1.15E-02	1.15E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.32 - Plutonium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Plutonium-236	-2.80E-03	U	7.54E-03	2.91E-02	1.04E-01	1.04E+01
LR-2-SUR	Plutonium-236	0.00E+00	U	5.18E-03	2.16E-02	1.04E-01	1.04E+01
LR-3-SUR	Plutonium-236	-2.60E-03	U	7.01E-03	2.70E-02	1.04E-01	1.04E+01
LR-4-SUR	Plutonium-236	0.00E+00	U	5.49E-03	1.89E-02	1.04E-01	1.04E+01
LR-5-SUR	Plutonium-236	0.00E+00	U	4.52E-03	1.38E-02	1.04E-01	1.04E+01
LR-6-SUR	Plutonium-236	-3.23E-03	U	8.71E-03	3.36E-02	1.04E-01	1.04E+01
LR-7-SUR	Plutonium-236	5.01E-03	U	6.98E-03	1.20E-02	1.04E-01	1.04E+01
LR-8-SUR	Plutonium-236	-2.35E-03	U	4.53E-03	1.89E-02	1.04E-01	1.04E+01
LR-9-SUR	Plutonium-236	-3.37E-03	U	4.55E-03	2.71E-02	1.04E-01	1.04E+01
LR-10-SUR	Plutonium-236	0.00E+00	U	7.48E-03	2.58E-02	1.04E-01	1.04E+01
LR-11-SUR	Plutonium-236	-6.20E-03	U	8.30E-03	3.48E-02	1.04E-01	1.04E+01
LR-12-SUR	Plutonium-236	8.35E-03	U	1.53E-02	3.34E-02	1.04E-01	1.04E+01
LR-13-SUR	Plutonium-236	-2.86E-03	U	7.70E-03	2.97E-02	1.04E-01	1.04E+01
LR-14-SUR	Plutonium-236	0.00E+00	U	4.52E-03	1.24E-02	1.04E-01	1.04E+01
LR-15-SUR	Plutonium-236	0.00E+00	U	4.52E-03	1.02E-02	1.04E-01	1.04E+01
LR-16-SUR	Plutonium-236	-2.08E-03	U	4.53E-03	1.94E-02	1.04E-01	1.04E+01
LR-17-SUR	Plutonium-236	3.14E-03	U	6.17E-03	1.51E-02	1.04E-01	1.04E+01
LR-18-SUR	Plutonium-236	-2.26E-03	U	6.08E-03	2.34E-02	1.04E-01	1.04E+01
LR-19-SUR	Plutonium-236	-2.34E-03	U	5.43E-03	1.72E-02	1.04E-01	1.04E+01
LR-20-SUR	Plutonium-236	9.44E-03	U	9.36E-03	1.06E-02	1.04E-01	1.04E+01
LR-21-SUR	Plutonium-236	7.06E-03	U	9.84E-03	2.01E-02	1.04E-01	1.04E+01
LR-22-SUR	Plutonium-236	5.17E-03	U	7.21E-03	1.16E-02	1.04E-01	1.04E+01
LR-23-SUR	Plutonium-236	1.07E-02	U	1.32E-02	2.52E-02	1.04E-01	1.04E+01
LR-24-SUR	Plutonium-236	1.21E-02		1.07E-02	1.09E-02	1.04E-01	1.04E+01
LR-25-SUR	Plutonium-236	2.10E-03	U	5.45E-03	1.54E-02	1.04E-01	1.04E+01
LR-26-SUR	Plutonium-236	4.61E-03	U	7.53E-03	1.70E-02	1.04E-01	1.04E+01
LR-27-SUR	Plutonium-236	3.06E-03	U	8.93E-03	1.75E-02	1.04E-01	1.04E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Plutonium-236	8.42E-03	U	1.26E-02	2.63E-02	1.04E-01	1.04E+01
LR-4-SUB	Plutonium-236	8.12E-03	U	1.23E-02	2.64E-02	1.04E-01	1.04E+01
LR-9-SUB	Plutonium-236	-8.07E-04	U	1.14E-02	2.92E-02	1.04E-01	1.04E+01
LR-13-SUB	Plutonium-236	2.02E-02		1.67E-02	2.75E-02	1.04E-01	1.04E+01
LR-15-SUB	Plutonium-236	1.78E-03	U	9.09E-03	2.08E-02	1.04E-01	1.04E+01
LR-18-SUB	Plutonium-236	8.33E-03	U	1.16E-02	2.44E-02	1.04E-01	1.04E+01
LR-19-SUB	Plutonium-236	7.22E-03	U	1.10E-02	2.34E-02	1.04E-01	1.04E+01
LR-23-SUB	Plutonium-236	4.65E-03	U	1.06E-02	2.42E-02	1.04E-01	1.04E+01
LR-24-SUB	Plutonium-236	7.13E-03	U	1.09E-02	2.38E-02	1.04E-01	1.04E+01
LR-26-SUB	Plutonium-236	2.89E-03	U	9.85E-03	2.50E-02	1.04E-01	1.04E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Plutonium-236	2.37E-03	U	6.16E-03	1.74E-02	1.04E-01	1.04E+01
RP-2-SUR	Plutonium-236	4.81E-03	U	7.85E-03	1.77E-02	1.04E-01	1.04E+01
RP-3-SUR	Plutonium-236	1.41E-02		1.34E-02	2.22E-02	1.04E-01	1.04E+01
RP-4-SUR	Plutonium-236	8.19E-03	U	1.04E-02	2.01E-02	1.04E-01	1.04E+01
RP-5-SUR	Plutonium-236	1.19E-02	U	1.33E-02	2.42E-02	1.04E-01	1.04E+01
RP-6-SUR	Plutonium-236	1.24E-02		1.18E-02	1.82E-02	1.04E-01	1.04E+01
RP-7-SUR	Plutonium-236	1.45E-02	U	1.44E-02	2.47E-02	1.04E-01	1.04E+01
RP-8-SUR	Plutonium-236	2.70E-03	U	9.57E-03	2.55E-02	1.04E-01	1.04E+01
RP-9-SUR	Plutonium-236	6.14E-03	U	1.21E-02	2.57E-02	1.04E-01	1.04E+01
RP-10-SUR	Plutonium-236	7.05E-03	U	8.99E-03	1.73E-02	1.04E-01	1.04E+01
RP-11-SUR	Plutonium-236	1.50E-02		1.29E-02	1.84E-02	1.04E-01	1.04E+01
RP-12-SUR	Plutonium-236	0.00E+00	U	6.06E-03	2.15E-02	1.04E-01	1.04E+01
RP-13-SUR	Plutonium-236	0.00E+00	U	6.09E-03	2.16E-02	1.04E-01	1.04E+01
RP-14-SUR	Plutonium-236	2.31E-02		1.72E-02	2.42E-02	1.04E-01	1.04E+01
RP-15-SUR	Plutonium-236	2.16E-02		1.56E-02	2.20E-02	1.04E-01	1.04E+01
RP-16-SUR	Plutonium-236	9.78E-03	U	1.31E-02	2.59E-02	1.04E-01	1.04E+01
RP-17-SUR	Plutonium-236	7.99E-03	U	1.20E-02	2.51E-02	1.04E-01	1.04E+01
RP-18-SUR	Plutonium-236	-2.04E-03	U	8.95E-03	2.56E-02	1.04E-01	1.04E+01
RP-19-SUR	Plutonium-236	2.81E-03	U	7.62E-03	1.30E-02	1.04E-01	1.04E+01
RP-20-SUR	Plutonium-236	-2.24E-03	U	1.26E-02	3.61E-02	1.04E-01	1.04E+01
RP-21-SUR	Plutonium-236	1.42E-03	U	1.24E-02	3.67E-02	1.04E-01	1.04E+01

Table 6.32 - Plutonium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Plutonium-236	1.09E-02	U	1.78E-02	3.75E-02	1.04E-01	1.04E+01
RP-23-SUR	Plutonium-236	1.06E-02	U	1.25E-02	2.36E-02	1.04E-01	1.04E+01
RP-24-SUR	Plutonium-236	-2.04E-03	U	7.22E-03	2.65E-02	1.04E-01	1.04E+01
RP-25-SUR	Plutonium-236	5.82E-03	U	1.06E-02	2.40E-02	1.04E-01	1.04E+01
RP-26-SUR	Plutonium-236	9.60E-04	U	8.40E-03	2.48E-02	1.04E-01	1.04E+01
RP-27-SUR	Plutonium-236	3.35E-03	U	9.38E-03	2.38E-02	1.04E-01	1.04E+01
RP-28-SUR	Plutonium-236	3.28E-03	U	1.51E-02	3.39E-02	1.04E-01	1.04E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Plutonium-236	2.57E-02		1.76E-02	2.07E-02	1.04E-01	1.04E+01
RP-5-SUB	Plutonium-236	1.54E-02	U	1.62E-02	3.13E-02	1.04E-01	1.04E+01
RP-7-SUB	Plutonium-236	3.69E-03	U	1.30E-02	3.21E-02	1.04E-01	1.04E+01
RP-12-SUB	Plutonium-236	9.92E-03	U	2.22E-02	4.85E-02	1.04E-01	1.04E+01
RP-13-SUB	Plutonium-236	1.54E-03	U	1.20E-02	2.97E-02	1.04E-01	1.04E+01
RP-17-SUB	Plutonium-236	9.66E-04	U	6.55E-03	1.94E-02	1.04E-01	1.04E+01
RP-18-SUB	Plutonium-236	7.27E-03	U	1.10E-02	2.36E-02	1.04E-01	1.04E+01
RP-19-SUB	Plutonium-236	-6.11E-03	U	6.97E-03	2.86E-02	1.04E-01	1.04E+01
RP-20-SUB	Plutonium-236	-1.97E-03	U	6.95E-03	2.55E-02	1.04E-01	1.04E+01
RP-28-SUB	Plutonium-236	-1.84E-03	U	6.49E-03	2.38E-02	1.04E-01	1.04E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Plutonium-236	3.53E-04	U	1.30E-02	3.68E-02	1.04E-01	1.04E+01
BP-2-SUR	Plutonium-236	1.20E-02		1.13E-02	2.16E-02	1.04E-01	1.04E+01
BP-3-SUR	Plutonium-236	3.94E-03	U	8.47E-03	2.16E-02	1.04E-01	1.04E+01
BP-4-SUR	Plutonium-236	6.86E-03	U	1.55E-02	3.44E-02	1.04E-01	1.04E+01
BP-5-SUR	Plutonium-236	-6.89E-03	U	1.31E-02	3.87E-02	1.04E-01	1.04E+01
BP-6-SUR	Plutonium-236	1.76E-03	U	6.74E-03	1.81E-02	1.04E-01	1.04E+01
BP-7-SUR	Plutonium-236	1.66E-03	U	9.74E-03	2.53E-02	1.04E-01	1.04E+01
BP-8-SUR	Plutonium-236	4.57E-03	U	1.10E-02	2.87E-02	1.04E-01	1.04E+01
BP-9-SUR	Plutonium-236	-1.42E-03	U	6.49E-03	1.79E-02	1.04E-01	1.04E+01
BP-10-SUR	Plutonium-236	-2.30E-05	U	6.21E-03	1.71E-02	1.04E-01	1.04E+01
BP-11-SUR	Plutonium-236	-7.02E-03	U	8.09E-03	2.69E-02	1.04E-01	1.04E+01
BP-12-SUR	Plutonium-236	-1.61E-03	U	7.36E-03	2.03E-02	1.04E-01	1.04E+01
BP-13-SUR	Plutonium-236	3.11E-03	U	7.11E-03	1.66E-02	1.04E-01	1.04E+01
BP-14-SUR	Plutonium-236	5.84E-03	U	9.96E-03	2.24E-02	1.04E-01	1.04E+01
BP-15-SUR	Plutonium-236	1.07E-02	U	1.12E-02	2.28E-02	1.04E-01	1.04E+01
BP-16-SUR	Plutonium-236	-1.92E-03	U	9.95E-03	2.93E-02	1.04E-01	1.04E+01
BP-17-SUR	Plutonium-236	2.05E-03	U	9.38E-03	2.19E-02	1.04E-01	1.04E+01
BP-18-SUR	Plutonium-236	4.63E-03	U	1.44E-02	3.55E-02	1.04E-01	1.04E+01
BP-19-SUR	Plutonium-236	2.29E-03	U	1.09E-02	2.89E-02	1.04E-01	1.04E+01
BP-20-SUR	Plutonium-236	6.04E-03	U	1.10E-02	2.49E-02	1.04E-01	1.04E+01
BP-21-SUR	Plutonium-236	9.74E-04	U	8.52E-03	2.52E-02	1.04E-01	1.04E+01
BP-22-SUR	Plutonium-236	6.63E-03	U	1.21E-02	2.74E-02	1.04E-01	1.04E+01
BP-23-SUR	Plutonium-236	3.88E-03	U	7.92E-03	2.03E-02	1.04E-01	1.04E+01
BP-24-SUR	Plutonium-236	-4.54E-03	U	8.24E-03	3.03E-02	1.04E-01	1.04E+01
BP-25-SUR	Plutonium-236	-6.69E-03	U	1.18E-02	3.78E-02	1.04E-01	1.04E+01
BP-26-SUR	Plutonium-236	1.02E-02	U	1.02E-02	1.18E-02	1.04E-01	1.04E+01
BP-27-SUR	Plutonium-236	5.90E-03	U	1.48E-02	3.34E-02	1.04E-01	1.04E+01
BP-28-SUR	Plutonium-236	4.10E-03	U	1.15E-02	2.92E-02	1.04E-01	1.04E+01
BP-29-SUR	Plutonium-236	5.97E-03	U	1.45E-02	3.36E-02	1.04E-01	1.04E+01
BP-30-SUR	Plutonium-236	2.26E-02	U	2.22E-02	3.87E-02	1.04E-01	1.04E+01
BP-31-SUR	Plutonium-236	5.26E-03	U	1.07E-02	2.74E-02	1.04E-01	1.04E+01
BP-32-SUR	Plutonium-236	1.19E-03	U	1.04E-02	3.06E-02	1.04E-01	1.04E+01
BP-33-SUR	Plutonium-236	-1.88E-03	U	8.21E-03	2.97E-02	1.04E-01	1.04E+01
BP-34-SUR	Plutonium-236	-4.27E-03	U	7.18E-03	2.59E-02	1.04E-01	1.04E+01
BP-35-SUR	Plutonium-236	4.45E-04	U	7.66E-03	2.31E-02	1.04E-01	1.04E+01
BP-36-SUR	Plutonium-236	8.36E-03	U	1.27E-02	2.71E-02	1.04E-01	1.04E+01
BP-37-SUR	Plutonium-236	2.47E-03	U	8.16E-03	2.14E-02	1.04E-01	1.04E+01
BP-38-SUR	Plutonium-236	-1.85E-03	U	6.56E-03	2.41E-02	1.04E-01	1.04E+01
BP-39-SUR	Plutonium-236	-1.29E-03	U	5.81E-03	1.72E-02	1.04E-01	1.04E+01
BP-40-SUR	Plutonium-236	-2.26E-03	U	8.65E-03	2.72E-02	1.04E-01	1.04E+01
BP-41-SUR	Plutonium-236	-8.18E-03	U	1.27E-02	4.07E-02	1.04E-01	1.04E+01
BP-42-SUR	Plutonium-236	4.29E-04	U	1.18E-02	2.99E-02	1.04E-01	1.04E+01

Table 6.32 - Plutonium-236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Plutonium-236	8.35E-03	U	1.16E-02	2.32E-02	1.04E-01	1.04E+01
BP-44-SUR	Plutonium-236	0.00E+00	U	7.09E-03	1.26E-02	1.04E-01	1.04E+01
BP-45-SUR	Plutonium-236	1.10E-02	U	1.53E-02	3.04E-02	1.04E-01	1.04E+01
BP-46-SUR	Plutonium-236	1.56E-02	U	1.69E-02	3.11E-02	1.04E-01	1.04E+01
BP-47-SUR	Plutonium-236	-2.23E-03	U	8.51E-03	2.67E-02	1.04E-01	1.04E+01
BP-48-SUR	Plutonium-236	1.08E-03	U	1.01E-02	2.60E-02	1.04E-01	1.04E+01
BP-49-SUR	Plutonium-236	3.11E-03	U	6.71E-03	1.78E-02	1.04E-01	1.04E+01
BP-50-SUR	Plutonium-236	1.59E-02		1.40E-02	2.30E-02	1.04E-01	1.04E+01
BP-51-SUR	Plutonium-236	1.34E-03	U	9.23E-03	2.51E-02	1.04E-01	1.04E+01
BP-52-SUR	Plutonium-236	4.38E-03	U	8.81E-03	2.07E-02	1.04E-01	1.04E+01
BP-53-SUR	Plutonium-236	4.25E-04	U	7.31E-03	2.21E-02	1.04E-01	1.04E+01
BP-54-SUR	Plutonium-236	2.43E-03	U	8.14E-03	2.14E-02	1.04E-01	1.04E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Plutonium-236	-1.53E-03	U	1.04E-02	2.55E-02	1.04E-01	1.04E+01
BP-4-SUB	Plutonium-236	-6.70E-03	U	1.14E-02	3.82E-02	1.04E-01	1.04E+01
BP-5-SUB	Plutonium-236	6.52E-03	U	1.33E-02	3.07E-02	1.04E-01	1.04E+01
BP-9-SUB	Plutonium-236	2.20E-03	U	1.15E-02	3.32E-02	1.04E-01	1.04E+01
BP-12-SUB	Plutonium-236	2.86E-03	U	1.10E-02	3.03E-02	1.04E-01	1.04E+01
BP-13-SUB	Plutonium-236	5.42E-03	U	1.10E-02	2.55E-02	1.04E-01	1.04E+01
BP-14-SUB	Plutonium-236	2.09E-03	U	9.46E-03	2.32E-02	1.04E-01	1.04E+01
BP-16-SUB	Plutonium-236	-3.75E-03	U	1.02E-02	3.64E-02	1.04E-01	1.04E+01
BP-20-SUB	Plutonium-236	-4.44E-03	U	1.31E-02	4.13E-02	1.04E-01	1.04E+01
BP-23-SUB	Plutonium-236	-5.43E-04	U	1.10E-02	3.03E-02	1.04E-01	1.04E+01
BP-29-SUB	Plutonium-236	-3.77E-03	U	1.02E-02	3.66E-02	1.04E-01	1.04E+01
BP-34-SUB	Plutonium-236	1.64E-02	U	1.67E-02	2.84E-02	1.04E-01	1.04E+01
BP-35-SUB	Plutonium-236	3.15E-03	U	8.55E-03	1.32E-02	1.04E-01	1.04E+01
BP-38-SUB	Plutonium-236	7.14E-04	U	1.42E-02	3.82E-02	1.04E-01	1.04E+01
BP-43-SUB	Plutonium-236	-1.77E-03	U	8.52E-03	2.51E-02	1.04E-01	1.04E+01
BP-45-SUB	Plutonium-236	-2.74E-03	U	8.06E-03	1.97E-02	1.04E-01	1.04E+01
BP-46-SUB	Plutonium-236	-8.59E-04	U	8.26E-03	2.02E-02	1.04E-01	1.04E+01
BP-48-SUB	Plutonium-236	4.73E-03	U	1.17E-02	2.79E-02	1.04E-01	1.04E+01
BP-50-SUB	Plutonium-236	3.09E-03	U	8.39E-03	2.05E-02	1.04E-01	1.04E+01
BP-51-SUB	Plutonium-236	4.77E-03	U	8.89E-03	1.85E-02	1.04E-01	1.04E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.33 - Plutonium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Plutonium-238	3.78E-03		3.35E-03	6.12E-03	7.31E-03	7.31E-01
LR-2-SUR	Plutonium-238	-1.86E-03	U	4.47E-03	1.42E-02	7.31E-03	7.31E-01
LR-3-SUR	Plutonium-238	-1.58E-03	U	4.39E-03	1.30E-02	7.31E-03	7.31E-01
LR-4-SUR	Plutonium-238	9.71E-04	U	5.04E-03	1.36E-02	7.31E-03	7.31E-01
LR-5-SUR	Plutonium-238	5.13E-04	U	3.34E-03	8.42E-03	7.31E-03	7.31E-01
LR-6-SUR	Plutonium-238	4.46E-05	U	1.37E-03	3.61E-03	7.31E-03	7.31E-01
LR-7-SUR	Plutonium-238	2.37E-04	U	1.54E-03	3.89E-03	7.31E-03	7.31E-01
LR-8-SUR	Plutonium-238	-2.43E-04	U	1.19E-03	3.65E-03	7.31E-03	7.31E-01
LR-9-SUR	Plutonium-238	7.82E-04	U	1.63E-03	3.90E-03	7.31E-03	7.31E-01
LR-10-SUR	Plutonium-238	1.73E-03	U	1.77E-03	3.42E-03	7.31E-03	7.31E-01
LR-11-SUR	Plutonium-238	-2.81E-04	U	1.23E-03	3.48E-03	7.31E-03	7.31E-01
LR-12-SUR	Plutonium-238	6.98E-04	U	1.21E-03	2.93E-03	7.31E-03	7.31E-01
LR-13-SUR	Plutonium-238	1.33E-03		1.13E-03	1.44E-03	7.31E-03	7.31E-01
LR-14-SUR	Plutonium-238	1.33E-03	U	1.59E-03	3.32E-03	7.31E-03	7.31E-01
LR-15-SUR	Plutonium-238	9.11E-04	U	4.16E-03	1.15E-02	7.31E-03	7.31E-01
LR-16-SUR	Plutonium-238	-8.39E-04	U	4.36E-03	1.28E-02	7.31E-03	7.31E-01
LR-17-SUR	Plutonium-238	3.38E-03	U	7.14E-03	1.62E-02	7.31E-03	7.31E-01
LR-18-SUR	Plutonium-238	1.44E-03	U	7.47E-03	2.02E-02	7.31E-03	7.31E-01
LR-19-SUR	Plutonium-238	1.79E-03		1.27E-03	1.34E-03	7.31E-03	7.31E-01
LR-20-SUR	Plutonium-238	1.08E-03	U	1.51E-03	3.41E-03	7.31E-03	7.31E-01
LR-21-SUR	Plutonium-238	7.27E-04	U	1.11E-03	1.45E-03	7.31E-03	7.31E-01
LR-22-SUR	Plutonium-238	1.73E-03		1.20E-03	1.84E-03	7.31E-03	7.31E-01
LR-23-SUR	Plutonium-238	-3.52E-04	U	1.89E-03	5.01E-03	7.31E-03	7.31E-01
LR-24-SUR	Plutonium-238	3.19E-04	U	1.56E-03	4.21E-03	7.31E-03	7.31E-01
LR-25-SUR	Plutonium-238	-2.98E-04	U	2.11E-03	5.46E-03	7.31E-03	7.31E-01
LR-26-SUR	Plutonium-238	1.18E-03	U	1.55E-03	3.32E-03	7.31E-03	7.31E-01
LR-27-SUR	Plutonium-238	1.77E-03		1.73E-03	3.36E-03	7.31E-03	7.31E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Plutonium-238	1.27E-03	U	1.66E-03	3.56E-03	7.31E-03	7.31E-01
LR-4-SUB	Plutonium-238	2.44E-04	U	1.12E-03	3.07E-03	7.31E-03	7.31E-01
LR-9-SUB	Plutonium-238	3.76E-04	U	2.24E-03	5.37E-03	7.31E-03	7.31E-01
LR-13-SUB	Plutonium-238	8.65E-04	U	1.50E-03	3.63E-03	7.31E-03	7.31E-01
LR-15-SUB	Plutonium-238	1.10E-03	U	2.16E-03	4.77E-03	7.31E-03	7.31E-01
LR-18-SUB	Plutonium-238	0.00E+00	U	1.52E-03	4.20E-03	7.31E-03	7.31E-01
LR-19-SUB	Plutonium-238	-2.79E-04	U	1.28E-03	3.51E-03	7.31E-03	7.31E-01
LR-23-SUB	Plutonium-238	1.19E-03	U	2.61E-03	5.69E-03	7.31E-03	7.31E-01
LR-24-SUB	Plutonium-238	3.81E-03		2.07E-03	2.53E-03	7.31E-03	7.31E-01
LR-26-SUB	Plutonium-238	5.60E-04	U	3.30E-03	8.57E-03	7.31E-03	7.31E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Plutonium-238	8.15E-04	U	1.60E-03	3.82E-03	7.31E-03	7.31E-01
RP-2-SUR	Plutonium-238	1.26E-03	U	1.79E-03	3.86E-03	7.31E-03	7.31E-01
RP-3-SUR	Plutonium-238	1.65E-03	U	1.68E-03	3.25E-03	7.31E-03	7.31E-01
RP-4-SUR	Plutonium-238	3.29E-03		2.26E-03	3.68E-03	7.31E-03	7.31E-01
RP-5-SUR	Plutonium-238	6.80E-04	U	1.48E-03	3.47E-03	7.31E-03	7.31E-01
RP-6-SUR	Plutonium-238	4.11E-03		2.66E-03	4.12E-03	7.31E-03	7.31E-01
RP-7-SUR	Plutonium-238	2.57E-03		2.21E-03	4.02E-03	7.31E-03	7.31E-01
RP-8-SUR	Plutonium-238	2.05E-03		1.74E-03	3.13E-03	7.31E-03	7.31E-01
RP-9-SUR	Plutonium-238	1.92E-03		1.41E-03	1.53E-03	7.31E-03	7.31E-01
RP-10-SUR	Plutonium-238	1.38E-03	U	1.57E-03	3.23E-03	7.31E-03	7.31E-01
RP-11-SUR	Plutonium-238	1.05E-03	U	1.34E-03	2.93E-03	7.31E-03	7.31E-01
RP-12-SUR	Plutonium-238	4.76E-04	U	1.48E-03	3.65E-03	7.31E-03	7.31E-01
RP-13-SUR	Plutonium-238	2.80E-03		2.50E-03	4.59E-03	7.31E-03	7.31E-01
RP-14-SUR	Plutonium-238	-1.52E-03	U	2.32E-03	7.74E-03	7.31E-03	7.31E-01
RP-15-SUR	Plutonium-238	1.19E-03	U	2.36E-03	5.32E-03	7.31E-03	7.31E-01
RP-16-SUR	Plutonium-238	-4.59E-04	U	2.38E-03	7.02E-03	7.31E-03	7.31E-01
RP-17-SUR	Plutonium-238	1.49E-03	U	1.83E-03	3.79E-03	7.31E-03	7.31E-01
RP-18-SUR	Plutonium-238	1.62E-03	U	1.69E-03	3.30E-03	7.31E-03	7.31E-01
RP-19-SUR	Plutonium-238	1.62E-03	U	1.59E-03	3.09E-03	7.31E-03	7.31E-01
RP-20-SUR	Plutonium-238	1.27E-03	B	1.12E-03	1.45E-03	7.31E-03	7.31E-01
RP-21-SUR	Plutonium-238	2.80E-04	U	1.28E-03	2.98E-03	7.31E-03	7.31E-01
RP-22-SUR	Plutonium-238	-3.32E-04	U	1.78E-03	4.71E-03	7.31E-03	7.31E-01
RP-23-SUR	Plutonium-238	8.07E-04	U	1.42E-03	3.32E-03	7.31E-03	7.31E-01
RP-24-SUR	Plutonium-238	1.19E-03	U	2.33E-03	5.08E-03	7.31E-03	7.31E-01
RP-25-SUR	Plutonium-238	2.49E-03	B	1.99E-03	3.50E-03	7.31E-03	7.31E-01
RP-26-SUR	Plutonium-238	3.23E-03	B	2.02E-03	3.09E-03	7.31E-03	7.31E-01
RP-27-SUR	Plutonium-238	4.33E-04	U	1.04E-03	2.72E-03	7.31E-03	7.31E-01
RP-28-SUR	Plutonium-238	-7.88E-04	U	1.82E-03	5.11E-03	7.31E-03	7.31E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Plutonium-238	1.14E-03	U	1.78E-03	4.16E-03	7.31E-03	7.31E-01
RP-5-SUB	Plutonium-238	1.56E-03	U	2.53E-03	5.42E-03	7.31E-03	7.31E-01
RP-7-SUB	Plutonium-238	5.10E-04	U	1.81E-03	4.53E-03	7.31E-03	7.31E-01
RP-12-SUB	Plutonium-238	3.13E-04	U	1.43E-03	3.94E-03	7.31E-03	7.31E-01

Table 6.33 - Plutonium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-13-SUB	Plutonium-238	-2.14E-04	U	1.79E-03	5.15E-03	7.31E-03	7.31E-01
RP-17-SUB	Plutonium-238	-2.03E-04	U	1.47E-03	4.10E-03	7.31E-03	7.31E-01
RP-18-SUB	Plutonium-238	5.05E-04	U	1.53E-03	3.65E-03	7.31E-03	7.31E-01
RP-19-SUB	Plutonium-238	1.54E-03	U	1.70E-03	3.43E-03	7.31E-03	7.31E-01
RP-20-SUB	Plutonium-238	-7.64E-04	U	1.59E-03	4.97E-03	7.31E-03	7.31E-01
RP-28-SUB	Plutonium-238	-1.83E-04	U	2.26E-03	5.55E-03	7.31E-03	7.31E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Plutonium-238	2.42E-03	U	2.99E-03	6.17E-03	7.31E-03	7.31E-01
BP-2-SUR	Plutonium-238	9.13E-04	U	2.16E-03	4.99E-03	7.31E-03	7.31E-01
BP-3-SUR	Plutonium-238	1.46E-03	U	2.27E-03	5.11E-03	7.31E-03	7.31E-01
BP-4-SUR	Plutonium-238	2.67E-04	U	1.10E-03	2.94E-03	7.31E-03	7.31E-01
BP-5-SUR	Plutonium-238	1.76E-03	U	3.00E-03	6.73E-03	7.31E-03	7.31E-01
BP-6-SUR	Plutonium-238	2.07E-03	U	2.18E-03	4.32E-03	7.31E-03	7.31E-01
BP-7-SUR	Plutonium-238	5.17E-04	U	1.58E-03	3.81E-03	7.31E-03	7.31E-01
BP-8-SUR	Plutonium-238	7.04E-03	B	3.25E-03	2.01E-03	7.31E-03	7.31E-01
BP-9-SUR	Plutonium-238	9.58E-04	U	1.46E-03	3.14E-03	7.31E-03	7.31E-01
BP-10-SUR	Plutonium-238	5.87E-03	B	3.11E-03	4.37E-03	7.31E-03	7.31E-01
BP-11-SUR	Plutonium-238	4.21E-03	B	3.38E-03	5.93E-03	7.31E-03	7.31E-01
BP-12-SUR	Plutonium-238	6.55E-04	U	1.75E-03	4.42E-03	7.31E-03	7.31E-01
BP-13-SUR	Plutonium-238	5.26E-03	B	2.94E-03	4.11E-03	7.31E-03	7.31E-01
BP-14-SUR	Plutonium-238	1.28E-03	U	1.83E-03	3.93E-03	7.31E-03	7.31E-01
BP-15-SUR	Plutonium-238	4.35E-03	B	2.71E-03	4.16E-03	7.31E-03	7.31E-01
BP-16-SUR	Plutonium-238	5.10E-03	B	2.95E-03	4.44E-03	7.31E-03	7.31E-01
BP-17-SUR	Plutonium-238	-5.16E-05	U	1.26E-03	3.70E-03	7.31E-03	7.31E-01
BP-18-SUR	Plutonium-238	5.20E-03	B	3.45E-03	5.60E-03	7.31E-03	7.31E-01
BP-19-SUR	Plutonium-238	3.50E-03		3.23E-03	6.06E-03	7.31E-03	7.31E-01
BP-20-SUR	Plutonium-238	-9.71E-04	U	1.49E-03	4.95E-03	7.31E-03	7.31E-01
BP-21-SUR	Plutonium-238	2.56E-03	U	3.31E-03	6.69E-03	7.31E-03	7.31E-01
BP-22-SUR	Plutonium-238	-4.43E-04	U	1.01E-03	3.12E-03	7.31E-03	7.31E-01
BP-23-SUR	Plutonium-238	1.49E-03	U	3.18E-03	7.64E-03	7.31E-03	7.31E-01
BP-24-SUR	Plutonium-238	9.71E-04	U	2.16E-03	5.08E-03	7.31E-03	7.31E-01
BP-25-SUR	Plutonium-238	4.84E-04	U	1.62E-03	3.92E-03	7.31E-03	7.31E-01
BP-26-SUR	Plutonium-238	1.99E-03	U	2.87E-03	6.19E-03	7.31E-03	7.31E-01
BP-27-SUR	Plutonium-238	8.29E-04	U	2.57E-03	6.35E-03	7.31E-03	7.31E-01
BP-28-SUR	Plutonium-238	1.17E-03	U	2.98E-03	6.81E-03	7.31E-03	7.31E-01
BP-29-SUR	Plutonium-238	0.00E+00	U	2.79E-03	6.83E-03	7.31E-03	7.31E-01
BP-30-SUR	Plutonium-238	9.70E-04	U	1.68E-03	4.07E-03	7.31E-03	7.31E-01
BP-31-SUR	Plutonium-238	2.15E-03	U	2.43E-03	4.84E-03	7.31E-03	7.31E-01
BP-32-SUR	Plutonium-238	2.49E-04	U	1.47E-03	3.82E-03	7.31E-03	7.31E-01
BP-33-SUR	Plutonium-238	1.56E-03	U	2.82E-03	6.00E-03	7.31E-03	7.31E-01
BP-34-SUR	Plutonium-238	1.55E-03		1.24E-03	2.17E-03	7.31E-03	7.31E-01
BP-35-SUR	Plutonium-238	1.87E-03		1.37E-03	1.50E-03	7.31E-03	7.31E-01
BP-36-SUR	Plutonium-238	4.53E-03		2.56E-03	3.48E-03	7.31E-03	7.31E-01
BP-37-SUR	Plutonium-238	2.50E-03		1.60E-03	1.50E-03	7.31E-03	7.31E-01
BP-38-SUR	Plutonium-238	4.15E-03		2.19E-03	2.60E-03	7.31E-03	7.31E-01
BP-39-SUR	Plutonium-238	3.88E-04	U	2.05E-03	4.90E-03	7.31E-03	7.31E-01
BP-40-SUR	Plutonium-238	9.49E-04	U	1.67E-03	3.90E-03	7.31E-03	7.31E-01
BP-41-SUR	Plutonium-238	5.12E-04	U	2.01E-03	4.69E-03	7.31E-03	7.31E-01
BP-42-SUR	Plutonium-238	1.37E-03	U	1.57E-03	3.22E-03	7.31E-03	7.31E-01
BP-43-SUR	Plutonium-238	1.74E-03		1.62E-03	3.06E-03	7.31E-03	7.31E-01
BP-44-SUR	Plutonium-238	8.18E-04	U	1.35E-03	3.22E-03	7.31E-03	7.31E-01
BP-45-SUR	Plutonium-238	7.29E-04	U	1.12E-03	1.46E-03	7.31E-03	7.31E-01
BP-46-SUR	Plutonium-238	3.36E-04	U	2.24E-03	5.39E-03	7.31E-03	7.31E-01
BP-47-SUR	Plutonium-238	8.65E-04	U	1.50E-03	3.63E-03	7.31E-03	7.31E-01
BP-48-SUR	Plutonium-238	2.40E-03		1.80E-03	3.01E-03	7.31E-03	7.31E-01
BP-49-SUR	Plutonium-238	2.90E-03		1.74E-03	1.51E-03	7.31E-03	7.31E-01
BP-50-SUR	Plutonium-238	1.32E-03	U	1.72E-03	3.78E-03	7.31E-03	7.31E-01
BP-51-SUR	Plutonium-238	3.27E-03		1.93E-03	1.64E-03	7.31E-03	7.31E-01
BP-52-SUR	Plutonium-238	1.60E-03		1.49E-03	2.81E-03	7.31E-03	7.31E-01
BP-53-SUR	Plutonium-238	3.41E-04	U	1.80E-03	4.30E-03	7.31E-03	7.31E-01
BP-54-SUR	Plutonium-238	1.20E-03	U	1.73E-03	3.81E-03	7.31E-03	7.31E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Plutonium-238	2.91E-03		2.08E-03	2.19E-03	7.31E-03	7.31E-01
BP-4-SUB	Plutonium-238	-7.35E-04	U	1.68E-03	5.17E-03	7.31E-03	7.31E-01
BP-5-SUB	Plutonium-238	-3.93E-04	U	2.04E-03	6.01E-03	7.31E-03	7.31E-01
BP-9-SUB	Plutonium-238	5.01E-04	U	1.34E-03	3.38E-03	7.31E-03	7.31E-01
BP-12-SUB	Plutonium-238	1.37E-03	U	1.79E-03	3.93E-03	7.31E-03	7.31E-01
BP-13-SUB	Plutonium-238	0.00E+00	U	1.83E-03	5.05E-03	7.31E-03	7.31E-01
BP-14-SUB	Plutonium-238	-8.13E-04	U	2.26E-03	6.67E-03	7.31E-03	7.31E-01
BP-16-SUB	Plutonium-238	2.62E-03	U	3.00E-03	6.14E-03	7.31E-03	7.31E-01
BP-20-SUB	Plutonium-238	1.52E-03	U	2.64E-03	5.84E-03	7.31E-03	7.31E-01
BP-23-SUB	Plutonium-238	-2.09E-04	U	1.23E-03	3.43E-03	7.31E-03	7.31E-01
BP-29-SUB	Plutonium-238	3.35E-04	U	1.79E-03	4.80E-03	7.31E-03	7.31E-01
BP-34-SUB	Plutonium-238	2.71E-03		2.48E-03	4.61E-03	7.31E-03	7.31E-01

Table 6.33 - Plutonium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-35-SUB	Plutonium-238	1.58E-03	U	1.78E-03	3.55E-03	7.31E-03	7.31E-01
BP-38-SUB	Plutonium-238	-1.20E-05	U	1.41E-03	3.75E-03	7.31E-03	7.31E-01
BP-43-SUB	Plutonium-238	5.36E-03		3.29E-03	4.94E-03	7.31E-03	7.31E-01
BP-45-SUB	Plutonium-238	6.78E-04	U	2.10E-03	5.18E-03	7.31E-03	7.31E-01
BP-46-SUB	Plutonium-238	5.17E-03		3.70E-03	6.06E-03	7.31E-03	7.31E-01
BP-48-SUB	Plutonium-238	-1.17E-03	U	2.30E-03	6.23E-03	7.31E-03	7.31E-01
BP-50-SUB	Plutonium-238	5.59E-04	U	1.90E-03	4.58E-03	7.31E-03	7.31E-01
BP-51-SUB	Plutonium-238	8.91E-04	U	1.74E-03	4.01E-03	7.31E-03	7.31E-01
Distance Test Locations							
NW-2-SUR (SP-10)	Plutonium-238	0.00E+00	U	1.04E-03	2.87E-03	7.31E-03	7.31E-01
NW-3-SUR (SP-13)	Plutonium-238	2.97E-03		2.72E-03	5.06E-03	7.31E-03	7.31E-01
NW-4-SUR (LP-14)	Plutonium-238	9.88E-04	U	1.14E-03	1.48E-03	7.31E-03	7.31E-01
NW-5-SUR (LP-7)	Plutonium-238	6.14E-03		3.44E-03	5.11E-03	7.31E-03	7.31E-01
NW-6-SUR (LP-8)	Plutonium-238	1.09E-03	U	2.28E-03	4.99E-03	7.31E-03	7.31E-01
SW-1-SUR (Z-10)	Plutonium-238	1.96E-03		1.68E-03	2.15E-03	7.31E-03	7.31E-01
SW-3-SUR (Z-4)	Plutonium-238	1.71E-03	U	1.75E-03	3.44E-03	7.31E-03	7.31E-01
SW-5-SUR (Z-14)	Plutonium-238	5.77E-04	U	2.63E-03	7.25E-03	7.31E-03	7.31E-01
SW-6-SUR (Z-13)	Plutonium-238	4.42E-04	U	1.23E-03	3.11E-03	7.31E-03	7.31E-01
SW-7-SUR (Z-3)	Plutonium-238	8.09E-04	U	2.18E-03	4.94E-03	7.31E-03	7.31E-01
SE-1-SUR (SR-2)	Plutonium-238	-7.94E-04	U	1.91E-03	6.08E-03	7.31E-03	7.31E-01
SE-2-SUR (SR-3)	Plutonium-238	1.09E-03	U	1.52E-03	3.42E-03	7.31E-03	7.31E-01
SE-3-SUR (TP-11)	Plutonium-238	1.59E-03	U	2.01E-03	4.18E-03	7.31E-03	7.31E-01
SE-4-SUR (TP-14)	Plutonium-238	5.92E-03		3.55E-03	5.20E-03	7.31E-03	7.31E-01
SE-6-SUR (TP-16)	Plutonium-238	1.65E-03	U	2.47E-03	3.22E-03	7.31E-03	7.31E-01
NE-1-SUR (RC-7)	Plutonium-238	3.97E-03		2.82E-03	4.67E-03	7.31E-03	7.31E-01
NE-3-SUR (SCT-5	Plutonium-238	7.30E-04	U	2.22E-03	5.30E-03	7.31E-03	7.31E-01
NE-4-SUR (SCT-9)	Plutonium-238	3.38E-03		2.59E-03	4.43E-03	7.31E-03	7.31E-01
NE-5-SUR (SCT-10)	Plutonium-238	3.35E-03		2.75E-03	4.86E-03	7.31E-03	7.31E-01
NE-6-SUR (SCT-11)	Plutonium-238	7.00E-04	U	1.52E-03	3.57E-03	7.31E-03	7.31E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.34 - Plutonium-239/240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Pu-239/240	6.88E-03		3.90E-03	5.57E-03	6.09E-03	6.09E-01
LR-2-SUR	Pu-239/240	8.27E-03		7.20E-03	1.29E-02	6.09E-03	6.09E-01
LR-3-SUR	Pu-239/240	0.00E+00	U	5.31E-03	1.36E-02	6.09E-03	6.09E-01
LR-4-SUR	Pu-239/240	2.88E-03	U	6.28E-03	1.47E-02	6.09E-03	6.09E-01
LR-5-SUR	Pu-239/240	7.23E-03		4.45E-03	6.39E-03	6.09E-03	6.09E-01
LR-6-SUR	Pu-239/240	2.73E-03		1.97E-03	3.29E-03	6.09E-03	6.09E-01
LR-7-SUR	Pu-239/240	5.40E-03		2.54E-03	2.95E-03	6.09E-03	6.09E-01
LR-8-SUR	Pu-239/240	3.88E-03		2.61E-03	4.24E-03	6.09E-03	6.09E-01
LR-9-SUR	Pu-239/240	5.12E-03		2.87E-03	4.13E-03	6.09E-03	6.09E-01
LR-10-SUR	Pu-239/240	6.70E-03		2.78E-03	3.11E-03	6.09E-03	6.09E-01
LR-11-SUR	Pu-239/240	4.84E-03		2.27E-03	2.65E-03	6.09E-03	6.09E-01
LR-12-SUR	Pu-239/240	3.21E-03		2.53E-03	4.43E-03	6.09E-03	6.09E-01
LR-13-SUR	Pu-239/240	5.78E-03		2.73E-03	3.35E-03	6.09E-03	6.09E-01
LR-14-SUR	Pu-239/240	5.61E-03		2.74E-03	3.58E-03	6.09E-03	6.09E-01
LR-15-SUR	Pu-239/240	1.75E-03	U	7.07E-03	1.65E-02	6.09E-03	6.09E-01
LR-16-SUR	Pu-239/240	2.80E-03	U	5.02E-03	1.17E-02	6.09E-03	6.09E-01
LR-17-SUR	Pu-239/240	-1.50E-03	U	6.22E-03	1.70E-02	6.09E-03	6.09E-01
LR-18-SUR	Pu-239/240	1.42E-03	U	8.38E-03	2.18E-02	6.09E-03	6.09E-01
LR-19-SUR	Pu-239/240	4.85E-03		2.34E-03	2.79E-03	6.09E-03	6.09E-01
LR-20-SUR	Pu-239/240	3.76E-03		2.43E-03	3.77E-03	6.09E-03	6.09E-01
LR-21-SUR	Pu-239/240	5.51E-03		2.42E-03	1.44E-03	6.09E-03	6.09E-01
LR-22-SUR	Pu-239/240	2.74E-03		1.49E-03	1.82E-03	6.09E-03	6.09E-01
LR-23-SUR	Pu-239/240	5.81E-03		2.77E-03	2.95E-03	6.09E-03	6.09E-01
LR-24-SUR	Pu-239/240	2.99E-03		1.92E-03	1.79E-03	6.09E-03	6.09E-01
LR-25-SUR	Pu-239/240	9.46E-03		3.90E-03	4.16E-03	6.09E-03	6.09E-01
LR-26-SUR	Pu-239/240	1.39E-02		4.21E-03	2.22E-03	6.09E-03	6.09E-01
LR-27-SUR	Pu-239/240	5.30E-03		3.15E-03	4.85E-03	6.09E-03	6.09E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Pu-239/240	-7.53E-04	U	1.78E-03	4.81E-03	6.09E-03	6.09E-01
LR-4-SUB	Pu-239/240	2.03E-03		1.65E-03	2.89E-03	6.09E-03	6.09E-01
LR-9-SUB	Pu-239/240	1.03E-04	U	1.34E-03	3.69E-03	6.09E-03	6.09E-01
LR-13-SUB	Pu-239/240	2.86E-04	U	1.31E-03	3.60E-03	6.09E-03	6.09E-01
LR-15-SUB	Pu-239/240	-2.71E-04	U	1.24E-03	3.42E-03	6.09E-03	6.09E-01
LR-18-SUB	Pu-239/240	5.44E-04	U	1.24E-03	2.90E-03	6.09E-03	6.09E-01
LR-19-SUB	Pu-239/240	1.30E-03	U	1.42E-03	2.95E-03	6.09E-03	6.09E-01
LR-23-SUB	Pu-239/240	5.88E-04	U	1.83E-03	4.50E-03	6.09E-03	6.09E-01
LR-24-SUB	Pu-239/240	7.07E-04	U	1.54E-03	3.61E-03	6.09E-03	6.09E-01
LR-26-SUB	Pu-239/240	1.11E-03	U	2.67E-03	6.98E-03	6.09E-03	6.09E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Pu-239/240	2.69E-03		2.28E-03	4.12E-03	6.09E-03	6.09E-01
RP-2-SUR	Pu-239/240	2.03E-03		1.66E-03	2.89E-03	6.09E-03	6.09E-01
RP-3-SUR	Pu-239/240	4.05E-03		2.15E-03	2.96E-03	6.09E-03	6.09E-01
RP-4-SUR	Pu-239/240	5.41E-03		3.06E-03	4.65E-03	6.09E-03	6.09E-01
RP-5-SUR	Pu-239/240	1.71E-02		4.79E-03	2.83E-03	6.09E-03	6.09E-01
RP-6-SUR	Pu-239/240	6.68E-03		3.55E-03	5.05E-03	6.09E-03	6.09E-01
RP-7-SUR	Pu-239/240	6.80E-03		3.77E-03	5.65E-03	6.09E-03	6.09E-01
RP-8-SUR	Pu-239/240	2.45E-03	U	2.50E-03	4.74E-03	6.09E-03	6.09E-01
RP-9-SUR	Pu-239/240	6.56E-03		2.99E-03	3.55E-03	6.09E-03	6.09E-01
RP-10-SUR	Pu-239/240	5.91E-03		2.77E-03	3.48E-03	6.09E-03	6.09E-01
RP-11-SUR	Pu-239/240	4.61E-04	U	1.81E-03	4.22E-03	6.09E-03	6.09E-01
RP-12-SUR	Pu-239/240	6.61E-03		2.90E-03	3.32E-03	6.09E-03	6.09E-01
RP-13-SUR	Pu-239/240	3.60E-03		2.32E-03	3.49E-03	6.09E-03	6.09E-01
RP-14-SUR	Pu-239/240	8.02E-03		4.83E-03	7.04E-03	6.09E-03	6.09E-01
RP-15-SUR	Pu-239/240	1.48E-02		5.10E-03	4.04E-03	6.09E-03	6.09E-01
RP-16-SUR	Pu-239/240	1.46E-02		5.96E-03	5.71E-03	6.09E-03	6.09E-01
RP-17-SUR	Pu-239/240	5.15E-03		2.96E-03	4.49E-03	6.09E-03	6.09E-01
RP-18-SUR	Pu-239/240	7.92E-03		3.31E-03	4.16E-03	6.09E-03	6.09E-01
RP-19-SUR	Pu-239/240	8.52E-03		3.35E-03	3.42E-03	6.09E-03	6.09E-01
RP-20-SUR	Pu-239/240	6.92E-03		2.75E-03	1.43E-03	6.09E-03	6.09E-01
RP-21-SUR	Pu-239/240	2.49E-03		1.85E-03	2.95E-03	6.09E-03	6.09E-01
RP-22-SUR	Pu-239/240	1.15E-02		3.94E-03	2.77E-03	6.09E-03	6.09E-01
RP-23-SUR	Pu-239/240	4.70E-03		2.20E-03	1.41E-03	6.09E-03	6.09E-01
RP-24-SUR	Pu-239/240	7.00E-03		3.23E-03	3.87E-03	6.09E-03	6.09E-01
RP-25-SUR	Pu-239/240	8.00E-03		3.09E-03	2.34E-03	6.09E-03	6.09E-01
RP-26-SUR	Pu-239/240	4.79E-03		2.74E-03	4.17E-03	6.09E-03	6.09E-01
RP-27-SUR	Pu-239/240	7.06E-03		2.76E-03	2.56E-03	6.09E-03	6.09E-01
RP-28-SUR	Pu-239/240	8.37E-03		3.47E-03	3.51E-03	6.09E-03	6.09E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Pu-239/240	6.56E-04	U	1.58E-03	4.12E-03	6.09E-03	6.09E-01
RP-5-SUB	Pu-239/240	2.16E-03		2.04E-03	3.88E-03	6.09E-03	6.09E-01
RP-7-SUB	Pu-239/240	8.81E-04	U	1.35E-03	3.13E-03	6.09E-03	6.09E-01
RP-12-SUB	Pu-239/240	-1.26E-03	U	2.12E-03	5.96E-03	6.09E-03	6.09E-01

Table 6.34 - Plutonium-239/240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-13-SUB	Pu-239/240	6.67E-04	U	1.60E-03	4.19E-03	6.09E-03	6.09E-01
RP-17-SUB	Pu-239/240	1.10E-03	U	1.69E-03	3.73E-03	6.09E-03	6.09E-01
RP-18-SUB	Pu-239/240	1.10E-03	U	1.31E-03	2.78E-03	6.09E-03	6.09E-01
RP-19-SUB	Pu-239/240	1.34E-03	U	1.89E-03	3.99E-03	6.09E-03	6.09E-01
RP-20-SUB	Pu-239/240	1.02E-03	U	2.24E-03	5.26E-03	6.09E-03	6.09E-01
RP-28-SUB	Pu-239/240	-4.76E-04	U	2.03E-03	5.28E-03	6.09E-03	6.09E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Pu-239/240	1.20E-03	U	3.24E-03	7.33E-03	6.09E-03	6.09E-01
BP-2-SUR	Pu-239/240	7.25E-03		3.75E-03	5.25E-03	6.09E-03	6.09E-01
BP-3-SUR	Pu-239/240	2.53E-03	U	2.77E-03	5.52E-03	6.09E-03	6.09E-01
BP-4-SUR	Pu-239/240	4.38E-03		2.38E-03	3.42E-03	6.09E-03	6.09E-01
BP-5-SUR	Pu-239/240	3.30E-03		2.82E-03	5.05E-03	6.09E-03	6.09E-01
BP-6-SUR	Pu-239/240	2.99E-03		2.54E-03	4.58E-03	6.09E-03	6.09E-01
BP-7-SUR	Pu-239/240	4.28E-03		2.41E-03	3.47E-03	6.09E-03	6.09E-01
BP-8-SUR	Pu-239/240	-3.33E-04	U	4.18E-03	9.09E-03	6.09E-03	6.09E-01
BP-9-SUR	Pu-239/240	6.08E-03		2.43E-03	2.39E-03	6.09E-03	6.09E-01
BP-10-SUR	Pu-239/240	3.44E-03		3.12E-03	5.67E-03	6.09E-03	6.09E-01
BP-11-SUR	Pu-239/240	3.21E-03	U	3.26E-03	6.16E-03	6.09E-03	6.09E-01
BP-12-SUR	Pu-239/240	4.71E-03		3.18E-03	5.15E-03	6.09E-03	6.09E-01
BP-13-SUR	Pu-239/240	4.06E-03		2.98E-03	5.05E-03	6.09E-03	6.09E-01
BP-14-SUR	Pu-239/240	3.82E-03		2.85E-03	4.88E-03	6.09E-03	6.09E-01
BP-15-SUR	Pu-239/240	2.97E-03		2.10E-03	3.39E-03	6.09E-03	6.09E-01
BP-16-SUR	Pu-239/240	4.05E-03		2.52E-03	3.88E-03	6.09E-03	6.09E-01
BP-17-SUR	Pu-239/240	2.82E-03		2.23E-03	3.92E-03	6.09E-03	6.09E-01
BP-18-SUR	Pu-239/240	6.68E-03		3.34E-03	4.27E-03	6.09E-03	6.09E-01
BP-19-SUR	Pu-239/240	3.44E-03	U	3.63E-03	7.06E-03	6.09E-03	6.09E-01
BP-20-SUR	Pu-239/240	6.43E-03		3.27E-03	4.04E-03	6.09E-03	6.09E-01
BP-21-SUR	Pu-239/240	4.72E-03		3.21E-03	5.10E-03	6.09E-03	6.09E-01
BP-22-SUR	Pu-239/240	5.01E-03		2.52E-03	3.37E-03	6.09E-03	6.09E-01
BP-23-SUR	Pu-239/240	3.17E-03	U	3.92E-03	8.10E-03	6.09E-03	6.09E-01
BP-24-SUR	Pu-239/240	5.12E-03		2.90E-03	3.81E-03	6.09E-03	6.09E-01
BP-25-SUR	Pu-239/240	4.89E-03		2.59E-03	3.57E-03	6.09E-03	6.09E-01
BP-26-SUR	Pu-239/240	2.65E-03	U	2.60E-03	5.05E-03	6.09E-03	6.09E-01
BP-27-SUR	Pu-239/240	5.76E-03		3.57E-03	5.18E-03	6.09E-03	6.09E-01
BP-28-SUR	Pu-239/240	5.05E-03		3.26E-03	4.88E-03	6.09E-03	6.09E-01
BP-29-SUR	Pu-239/240	6.36E-03		3.57E-03	4.97E-03	6.09E-03	6.09E-01
BP-30-SUR	Pu-239/240	4.43E-03		3.40E-03	5.88E-03	6.09E-03	6.09E-01
BP-31-SUR	Pu-239/240	1.59E-03	U	2.08E-03	4.41E-03	6.09E-03	6.09E-01
BP-32-SUR	Pu-239/240	3.62E-03		2.28E-03	3.48E-03	6.09E-03	6.09E-01
BP-33-SUR	Pu-239/240	3.73E-03		2.66E-03	4.36E-03	6.09E-03	6.09E-01
BP-34-SUR	Pu-239/240	1.20E-03	U	1.55E-03	3.14E-03	6.09E-03	6.09E-01
BP-35-SUR	Pu-239/240	6.47E-03		2.87E-03	3.13E-03	6.09E-03	6.09E-01
BP-36-SUR	Pu-239/240	4.34E-03		2.61E-03	3.86E-03	6.09E-03	6.09E-01
BP-37-SUR	Pu-239/240	4.72E-03		2.26E-03	1.49E-03	6.09E-03	6.09E-01
BP-38-SUR	Pu-239/240	2.53E-03		1.72E-03	2.58E-03	6.09E-03	6.09E-01
BP-39-SUR	Pu-239/240	3.26E-03		2.06E-03	2.89E-03	6.09E-03	6.09E-01
BP-40-SUR	Pu-239/240	4.38E-03		2.28E-03	1.66E-03	6.09E-03	6.09E-01
BP-41-SUR	Pu-239/240	3.56E-03		2.30E-03	3.57E-03	6.09E-03	6.09E-01
BP-42-SUR	Pu-239/240	2.37E-03		1.56E-03	2.16E-03	6.09E-03	6.09E-01
BP-43-SUR	Pu-239/240	2.81E-03		2.33E-03	4.15E-03	6.09E-03	6.09E-01
BP-44-SUR	Pu-239/240	5.43E-03		2.62E-03	3.03E-03	6.09E-03	6.09E-01
BP-45-SUR	Pu-239/240	5.55E-03		2.61E-03	3.04E-03	6.09E-03	6.09E-01
BP-46-SUR	Pu-239/240	4.72E-03		2.70E-03	3.71E-03	6.09E-03	6.09E-01
BP-47-SUR	Pu-239/240	3.44E-03		2.32E-03	3.60E-03	6.09E-03	6.09E-01
BP-48-SUR	Pu-239/240	6.90E-03		2.82E-03	2.53E-03	6.09E-03	6.09E-01
BP-49-SUR	Pu-239/240	4.24E-03		2.34E-03	3.14E-03	6.09E-03	6.09E-01
BP-50-SUR	Pu-239/240	8.65E-04	U	1.75E-03	4.19E-03	6.09E-03	6.09E-01
BP-51-SUR	Pu-239/240	2.44E-03		1.64E-03	1.62E-03	6.09E-03	6.09E-01
BP-52-SUR	Pu-239/240	9.68E-03		3.56E-03	2.79E-03	6.09E-03	6.09E-01
BP-53-SUR	Pu-239/240	4.53E-03		2.26E-03	2.54E-03	6.09E-03	6.09E-01
BP-54-SUR	Pu-239/240	2.98E-03		1.83E-03	1.63E-03	6.09E-03	6.09E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Pu-239/240	2.53E-03	U	2.59E-03	5.08E-03	6.09E-03	6.09E-01
BP-4-SUB	Pu-239/240	-4.01E-04	U	1.88E-03	5.58E-03	6.09E-03	6.09E-01
BP-5-SUB	Pu-239/240	6.08E-04	U	1.78E-03	4.51E-03	6.09E-03	6.09E-01
BP-9-SUB	Pu-239/240	1.68E-03	U	1.96E-03	3.94E-03	6.09E-03	6.09E-01
BP-12-SUB	Pu-239/240	0.00E+00	U	2.27E-03	5.67E-03	6.09E-03	6.09E-01
BP-13-SUB	Pu-239/240	1.97E-03	U	2.25E-03	4.61E-03	6.09E-03	6.09E-01
BP-14-SUB	Pu-239/240	-1.21E-03	U	2.38E-03	7.02E-03	6.09E-03	6.09E-01
BP-16-SUB	Pu-239/240	4.21E-04	U	2.55E-03	6.64E-03	6.09E-03	6.09E-01
BP-20-SUB	Pu-239/240	1.21E-03	U	2.30E-03	5.32E-03	6.09E-03	6.09E-01
BP-23-SUB	Pu-239/240	-6.23E-04	U	1.23E-03	3.61E-03	6.09E-03	6.09E-01
BP-29-SUB	Pu-239/240	8.88E-04	U	2.13E-03	5.09E-03	6.09E-03	6.09E-01
BP-34-SUB	Pu-239/240	1.25E-03	U	1.57E-03	3.46E-03	6.09E-03	6.09E-01

Table 6.34 - Plutonium-239/240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-35-SUB	Pu-239/240	1.60E-03	U	1.65E-03	3.23E-03	6.09E-03	6.09E-01
BP-38-SUB	Pu-239/240	9.08E-04	U	1.27E-03	2.86E-03	6.09E-03	6.09E-01
BP-43-SUB	Pu-239/240	-1.21E-03	U	2.19E-03	6.14E-03	6.09E-03	6.09E-01
BP-45-SUB	Pu-239/240	-4.84E-04	U	1.54E-03	3.89E-03	6.09E-03	6.09E-01
BP-46-SUB	Pu-239/240	8.55E-04	U	2.66E-03	6.55E-03	6.09E-03	6.09E-01
BP-48-SUB	Pu-239/240	-5.35E-04	U	2.28E-03	5.93E-03	6.09E-03	6.09E-01
BP-50-SUB	Pu-239/240	-4.41E-04	U	1.75E-03	4.82E-03	6.09E-03	6.09E-01
BP-51-SUB	Pu-239/240	5.20E-04	U	1.44E-03	3.66E-03	6.09E-03	6.09E-01
Distance Test Locations							
NW-2-SUR (SP-10)	Pu-239/240	4.74E-03		2.80E-03	4.35E-03	6.09E-03	6.09E-01
NW-3-SUR (SP-13)	Pu-239/240	6.54E-03		3.90E-03	5.99E-03	6.09E-03	6.09E-01
NW-4-SUR (LP-14)	Pu-239/240	1.11E-02		3.88E-03	3.44E-03	6.09E-03	6.09E-01
NW-5-SUR (LP-7)	Pu-239/240	4.98E-03		2.78E-03	3.89E-03	6.09E-03	6.09E-01
NW-6-SUR (LP-8)	Pu-239/240	6.21E-03		3.03E-03	3.80E-03	6.09E-03	6.09E-01
SW-1-SUR (Z-10)	Pu-239/240	7.11E-04	U	1.97E-03	5.00E-03	6.09E-03	6.09E-01
SW-3-SUR (Z-4)	Pu-239/240	1.50E-02		4.65E-03	3.70E-03	6.09E-03	6.09E-01
SW-5-SUR (Z-14)	Pu-239/240	-1.14E-03	U	3.88E-03	1.05E-02	6.09E-03	6.09E-01
SW-6-SUR (Z-13)	Pu-239/240	0.00E+00	U	1.21E-03	3.35E-03	6.09E-03	6.09E-01
SW-7-SUR (Z-3)	Pu-239/240	0.00E+00	U	1.28E-03	3.76E-03	6.09E-03	6.09E-01
SE-1-SUR (SR-2)	Pu-239/240	3.93E-04	U	2.04E-03	5.53E-03	6.09E-03	6.09E-01
SE-2-SUR (SR-3)	Pu-239/240	2.69E-04	U	2.04E-03	4.93E-03	6.09E-03	6.09E-01
SE-3-SUR (TP-11)	Pu-239/240	1.52E-03	U	1.83E-03	3.81E-03	6.09E-03	6.09E-01
SE-4-SUR (TP-14)	Pu-239/240	0.00E+00	U	2.49E-03	6.38E-03	6.09E-03	6.09E-01
SE-6-SUR (TP-16)	Pu-239/240	1.06E-03	U	2.95E-03	7.47E-03	6.09E-03	6.09E-01
NE-1-SUR (RC-7)	Pu-239/240	4.23E-03		3.32E-03	5.79E-03	6.09E-03	6.09E-01
NE-3-SUR (SCT-5	Pu-239/240	6.60E-03		3.34E-03	4.03E-03	6.09E-03	6.09E-01
NE-4-SUR (SCT-9)	Pu-239/240	9.38E-03		3.80E-03	4.09E-03	6.09E-03	6.09E-01
NE-5-SUR (SCT-10)	Pu-239/240	5.70E-03		2.89E-03	3.70E-03	6.09E-03	6.09E-01
NE-6-SUR (SCT-11)	Pu-239/240	5.09E-03		2.45E-03	2.91E-03	6.09E-03	6.09E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.35 - Plutonium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Plutonium-241	1.39E-01	U	3.10E-01	5.51E-01	1.05E+00	1.05E+02
LR-2-SUR	Plutonium-241	-1.81E-01	U	3.03E-01	5.64E-01	1.05E+00	1.05E+02
LR-3-SUR	Plutonium-241	1.32E-02	U	3.17E-01	5.75E-01	1.05E+00	1.05E+02
LR-4-SUR	Plutonium-241	1.43E-01	U	2.52E-01	4.44E-01	1.05E+00	1.05E+02
LR-5-SUR	Plutonium-241	2.68E-01	U	3.36E-01	5.84E-01	1.05E+00	1.05E+02
LR-6-SUR	Plutonium-241	1.45E-01	U	3.06E-01	5.43E-01	1.05E+00	1.05E+02
LR-7-SUR	Plutonium-241	2.27E-01	U	3.20E-01	5.60E-01	1.05E+00	1.05E+02
LR-8-SUR	Plutonium-241	8.54E-02	U	3.12E-01	5.59E-01	1.05E+00	1.05E+02
LR-9-SUR	Plutonium-241	5.76E-02	U	3.22E-01	5.80E-01	1.05E+00	1.05E+02
LR-10-SUR	Plutonium-241	3.15E-02	U	3.26E-01	5.90E-01	1.05E+00	1.05E+02
LR-11-SUR	Plutonium-241	-2.23E-01	U	2.94E-01	5.50E-01	1.05E+00	1.05E+02
LR-12-SUR	Plutonium-241	1.14E-01	U	2.63E-01	4.67E-01	1.05E+00	1.05E+02
LR-13-SUR	Plutonium-241	-1.25E-02	U	3.00E-01	5.47E-01	1.05E+00	1.05E+02
LR-14-SUR	Plutonium-241	1.13E-02	U	2.72E-01	4.94E-01	1.05E+00	1.05E+02
LR-15-SUR	Plutonium-241	-4.56E-02	UJ	3.26E-01	5.96E-01	1.05E+00	1.05E+02
LR-16-SUR	Plutonium-241	8.58E-02	U	2.85E-01	5.10E-01	1.05E+00	1.05E+02
LR-17-SUR	Plutonium-241	-1.46E-01	U	3.12E-01	5.77E-01	1.05E+00	1.05E+02
LR-18-SUR	Plutonium-241	1.21E-01	U	3.54E-01	6.33E-01	1.05E+00	1.05E+02
LR-19-SUR	Plutonium-241	1.69E-01	UJ	3.14E-01	5.81E-01	1.05E+00	1.05E+02
LR-20-SUR	Plutonium-241	-1.63E-02	UJ	3.74E-01	7.29E-01	1.05E+00	1.05E+02
LR-21-SUR	Plutonium-241	-1.02E-01	U	3.27E-01	6.50E-01	1.05E+00	1.05E+02
LR-22-SUR	Plutonium-241	8.16E-02	UJ	2.42E-01	4.55E-01	1.05E+00	1.05E+02
LR-23-SUR	Plutonium-241	1.17E-01	U	3.94E-01	7.45E-01	1.05E+00	1.05E+02
LR-24-SUR	Plutonium-241	-1.00E-01	UJ	3.77E-01	7.46E-01	1.05E+00	1.05E+02
LR-25-SUR	Plutonium-241	-7.72E-02	U	3.49E-01	6.90E-01	1.05E+00	1.05E+02
LR-26-SUR	Plutonium-241	0.00E+00	UJ	3.75E-01	7.28E-01	1.05E+00	1.05E+02
LR-27-SUR	Plutonium-241	-2.58E-01	U	3.73E-01	7.54E-01	1.05E+00	1.05E+02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Plutonium-241	3.46E-02	UJ	4.01E-01	7.72E-01	1.05E+00	1.05E+02
LR-4-SUB	Plutonium-241	5.85E-02	U	3.42E-01	6.53E-01	1.05E+00	1.05E+02
LR-9-SUB	Plutonium-241	1.74E-01	U	3.79E-01	7.05E-01	1.05E+00	1.05E+02
LR-13-SUB	Plutonium-241	-1.67E-02	UJ	3.83E-01	7.46E-01	1.05E+00	1.05E+02
LR-15-SUB	Plutonium-241	3.14E-01	UJ	4.30E-01	7.78E-01	1.05E+00	1.05E+02
LR-18-SUB	Plutonium-241	4.68E-02	UJ	3.63E-01	6.97E-01	1.05E+00	1.05E+02
LR-19-SUB	Plutonium-241	-6.44E-02	UJ	3.66E-01	7.19E-01	1.05E+00	1.05E+02
LR-23-SUB	Plutonium-241	1.87E-01	U	3.26E-01	5.93E-01	1.05E+00	1.05E+02
LR-24-SUB	Plutonium-241	-9.81E-03	U	2.60E-01	4.97E-01	1.05E+00	1.05E+02
LR-26-SUB	Plutonium-241	3.45E-01	U	5.30E-01	9.61E-01	1.05E+00	1.05E+02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Plutonium-241	3.03E-02	U	3.71E-01	7.09E-01	1.05E+00	1.05E+02
RP-2-SUR	Plutonium-241	-1.56E-01	U	3.06E-01	6.11E-01	1.05E+00	1.05E+02
RP-3-SUR	Plutonium-241	-8.40E-02	U	3.34E-01	6.56E-01	1.05E+00	1.05E+02
RP-4-SUR	Plutonium-241	1.32E-01	U	3.30E-01	6.10E-01	1.05E+00	1.05E+02
RP-5-SUR	Plutonium-241	2.38E-01	U	2.94E-01	5.24E-01	1.05E+00	1.05E+02
RP-6-SUR	Plutonium-241	-5.63E-02	U	2.95E-01	5.70E-01	1.05E+00	1.05E+02
RP-7-SUR	Plutonium-241	-1.16E-02	U	3.07E-01	5.87E-01	1.05E+00	1.05E+02
RP-8-SUR	Plutonium-241	0.00E+00	U	3.53E-01	6.49E-01	1.05E+00	1.05E+02
RP-9-SUR	Plutonium-241	-3.56E-02	U	3.28E-01	6.06E-01	1.05E+00	1.05E+02
RP-10-SUR	Plutonium-241	1.28E-01	U	3.51E-01	6.32E-01	1.05E+00	1.05E+02
RP-11-SUR	Plutonium-241	2.77E-01	U	3.78E-01	6.64E-01	1.05E+00	1.05E+02
RP-12-SUR	Plutonium-241	-2.34E-01	U	3.72E-01	7.03E-01	1.05E+00	1.05E+02
RP-13-SUR	Plutonium-241	1.93E-01	U	3.17E-01	5.75E-01	1.05E+00	1.05E+02
RP-14-SUR	Plutonium-241	-3.25E-02	U	3.85E-01	7.11E-01	1.05E+00	1.05E+02
RP-15-SUR	Plutonium-241	-2.02E-01	U	5.30E-01	1.05E+00	1.05E+00	1.05E+02
RP-16-SUR	Plutonium-241	2.92E-01	U	4.44E-01	7.86E-01	1.05E+00	1.05E+02
RP-17-SUR	Plutonium-241	2.99E-01	U	3.60E-01	6.28E-01	1.05E+00	1.05E+02
RP-18-SUR	Plutonium-241	-8.13E-02	U	3.23E-01	6.34E-01	1.05E+00	1.05E+02
RP-19-SUR	Plutonium-241	1.64E-01	U	3.60E-01	6.70E-01	1.05E+00	1.05E+02
RP-20-SUR	Plutonium-241	2.46E-01	U	3.57E-01	6.50E-01	1.05E+00	1.05E+02
RP-21-SUR	Plutonium-241	1.65E-01	U	3.98E-01	7.43E-01	1.05E+00	1.05E+02

Table 6.35 - Plutonium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Plutonium-241	3.18E-02	U	3.72E-01	7.15E-01	1.05E+00	1.05E+02
RP-23-SUR	Plutonium-241	-6.62E-02	U	3.02E-01	5.95E-01	1.05E+00	1.05E+02
RP-24-SUR	Plutonium-241	-8.59E-02	UJ	3.25E-01	6.43E-01	1.05E+00	1.05E+02
RP-25-SUR	Plutonium-241	-1.55E-01	UJ	3.87E-01	7.74E-01	1.05E+00	1.05E+02
RP-26-SUR	Plutonium-241	1.20E-01	UJ	3.59E-01	6.76E-01	1.05E+00	1.05E+02
RP-27-SUR	Plutonium-241	-5.19E-02	U	2.97E-01	5.83E-01	1.05E+00	1.05E+02
RP-28-SUR	Plutonium-241	1.49E-02	U	3.48E-01	6.72E-01	1.05E+00	1.05E+02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Plutonium-241	-1.93E-01	U	4.33E-01	8.68E-01	1.05E+00	1.05E+02
RP-5-SUB	Plutonium-241	-2.41E-01	U	4.47E-01	9.02E-01	1.05E+00	1.05E+02
RP-7-SUB	Plutonium-241	1.69E-01	U	4.06E-01	7.59E-01	1.05E+00	1.05E+02
RP-12-SUB	Plutonium-241	-9.86E-02	U	4.49E-01	8.86E-01	1.05E+00	1.05E+02
RP-13-SUB	Plutonium-241	3.85E-02	U	4.50E-01	8.65E-01	1.05E+00	1.05E+02
RP-17-SUB	Plutonium-241	-1.93E-01	U	4.21E-01	8.36E-01	1.05E+00	1.05E+02
RP-18-SUB	Plutonium-241	1.23E-01	U	3.90E-01	7.30E-01	1.05E+00	1.05E+02
RP-19-SUB	Plutonium-241	-1.18E-01	U	3.56E-01	7.00E-01	1.05E+00	1.05E+02
RP-20-SUB	Plutonium-241	-1.29E-01	U	4.46E-01	8.76E-01	1.05E+00	1.05E+02
RP-28-SUB	Plutonium-241	-6.99E-02	U	3.41E-01	6.66E-01	1.05E+00	1.05E+02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Plutonium-241	1.98E-01	UJ	4.70E-01	8.79E-01	1.05E+00	1.05E+02
BP-2-SUR	Plutonium-241	-3.64E-02	U	4.13E-01	8.07E-01	1.05E+00	1.05E+02
BP-3-SUR	Plutonium-241	2.01E-01	U	4.76E-01	8.90E-01	1.05E+00	1.05E+02
BP-4-SUR	Plutonium-241	1.25E-01	U	3.13E-01	5.83E-01	1.05E+00	1.05E+02
BP-5-SUR	Plutonium-241	-3.85E-02	U	2.92E-01	5.49E-01	1.05E+00	1.05E+02
BP-6-SUR	Plutonium-241	-1.74E-01	U	3.72E-01	7.41E-01	1.05E+00	1.05E+02
BP-7-SUR	Plutonium-241	-9.71E-02	U	3.62E-01	7.18E-01	1.05E+00	1.05E+02
BP-8-SUR	Plutonium-241	4.37E-01	J	4.26E-01	7.46E-01	1.05E+00	1.05E+02
BP-9-SUR	Plutonium-241	1.83E-01	U	3.14E-01	5.79E-01	1.05E+00	1.05E+02
BP-10-SUR	Plutonium-241	8.25E-02	U	3.22E-01	6.10E-01	1.05E+00	1.05E+02
BP-11-SUR	Plutonium-241	2.12E-01	UJ	3.92E-01	7.23E-01	1.05E+00	1.05E+02
BP-12-SUR	Plutonium-241	0.00E+00	U	4.28E-01	8.31E-01	1.05E+00	1.05E+02
BP-13-SUR	Plutonium-241	6.92E-02	UJ	3.22E-01	6.14E-01	1.05E+00	1.05E+02
BP-14-SUR	Plutonium-241	1.54E-01	U	3.07E-01	5.69E-01	1.05E+00	1.05E+02
BP-15-SUR	Plutonium-241	2.73E-02	U	3.14E-01	6.05E-01	1.05E+00	1.05E+02
BP-16-SUR	Plutonium-241	2.59E-02	U	2.98E-01	5.75E-01	1.05E+00	1.05E+02
BP-17-SUR	Plutonium-241	1.36E-01	U	3.22E-01	6.01E-01	1.05E+00	1.05E+02
BP-18-SUR	Plutonium-241	7.64E-02	U	3.56E-01	6.78E-01	1.05E+00	1.05E+02
BP-19-SUR	Plutonium-241	-1.68E-01	U	3.27E-01	6.03E-01	1.05E+00	1.05E+02
BP-20-SUR	Plutonium-241	-2.12E-01	U	3.25E-01	6.03E-01	1.05E+00	1.05E+02
BP-21-SUR	Plutonium-241	-2.88E-01	U	3.15E-01	5.88E-01	1.05E+00	1.05E+02
BP-22-SUR	Plutonium-241	4.25E-02	U	2.99E-01	5.60E-01	1.05E+00	1.05E+02
BP-23-SUR	Plutonium-241	-2.60E-01	U	3.08E-01	5.74E-01	1.05E+00	1.05E+02
BP-24-SUR	Plutonium-241	-2.07E-01	U	3.55E-01	6.57E-01	1.05E+00	1.05E+02
BP-25-SUR	Plutonium-241	-2.85E-01	U	3.08E-01	5.74E-01	1.05E+00	1.05E+02
BP-26-SUR	Plutonium-241	-9.30E-02	U	3.16E-01	5.78E-01	1.05E+00	1.05E+02
BP-27-SUR	Plutonium-241	-8.97E-03	U	3.65E-01	6.73E-01	1.05E+00	1.05E+02
BP-28-SUR	Plutonium-241	-2.28E-01	U	3.36E-01	6.23E-01	1.05E+00	1.05E+02
BP-29-SUR	Plutonium-241	1.05E-01	U	3.22E-01	5.75E-01	1.05E+00	1.05E+02
BP-30-SUR	Plutonium-241	-1.23E-01	U	4.19E-01	8.10E-01	1.05E+00	1.05E+02
BP-31-SUR	Plutonium-241	-1.73E-01	U	3.21E-01	5.92E-01	1.05E+00	1.05E+02
BP-32-SUR	Plutonium-241	-1.47E-01	U	3.46E-01	6.87E-01	1.05E+00	1.05E+02
BP-33-SUR	Plutonium-241	-2.93E-02	U	3.15E-01	5.72E-01	1.05E+00	1.05E+02
BP-34-SUR	Plutonium-241	-1.75E-01	U	3.26E-01	6.04E-01	1.05E+00	1.05E+02
BP-35-SUR	Plutonium-241	-2.46E-02	U	3.17E-01	6.10E-01	1.05E+00	1.05E+02
BP-36-SUR	Plutonium-241	-5.64E-02	U	3.62E-01	6.99E-01	1.05E+00	1.05E+02
BP-37-SUR	Plutonium-241	-3.77E-02	U	3.24E-01	6.23E-01	1.05E+00	1.05E+02
BP-38-SUR	Plutonium-241	-6.06E-02	U	3.11E-01	6.02E-01	1.05E+00	1.05E+02
BP-39-SUR	Plutonium-241	9.69E-02	U	3.67E-01	6.87E-01	1.05E+00	1.05E+02
BP-40-SUR	Plutonium-241	0.00E+00	U	3.40E-01	6.49E-01	1.05E+00	1.05E+02
BP-41-SUR	Plutonium-241	-6.75E-02	U	2.88E-01	5.59E-01	1.05E+00	1.05E+02
BP-42-SUR	Plutonium-241	-1.33E-01	U	3.37E-01	6.61E-01	1.05E+00	1.05E+02

Table 6.35 - Plutonium-241 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Plutonium-241	-8.78E-02	U	3.20E-01	6.23E-01	1.05E+00	1.05E+02
BP-44-SUR	Plutonium-241	-3.86E-02	U	3.32E-01	6.38E-01	1.05E+00	1.05E+02
BP-45-SUR	Plutonium-241	-1.66E-01	U	2.98E-01	5.90E-01	1.05E+00	1.05E+02
BP-46-SUR	Plutonium-241	-3.97E-02	U	3.41E-01	6.57E-01	1.05E+00	1.05E+02
BP-47-SUR	Plutonium-241	-8.48E-02	U	3.61E-01	7.01E-01	1.05E+00	1.05E+02
BP-48-SUR	Plutonium-241	-8.16E-02	U	2.97E-01	5.79E-01	1.05E+00	1.05E+02
BP-49-SUR	Plutonium-241	-1.48E-01	U	3.11E-01	6.14E-01	1.05E+00	1.05E+02
BP-50-SUR	Plutonium-241	0.00E+00	U	3.97E-01	7.58E-01	1.05E+00	1.05E+02
BP-51-SUR	Plutonium-241	5.47E-02	U	3.60E-01	6.79E-01	1.05E+00	1.05E+02
BP-52-SUR	Plutonium-241	-5.23E-02	U	3.36E-01	6.50E-01	1.05E+00	1.05E+02
BP-53-SUR	Plutonium-241	-7.30E-02	U	3.11E-01	6.04E-01	1.05E+00	1.05E+02
BP-54-SUR	Plutonium-241	5.09E-02	U	3.35E-01	6.32E-01	1.05E+00	1.05E+02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Plutonium-241	1.31E-02	U	3.30E-01	5.97E-01	1.05E+00	1.05E+02
BP-4-SUB	Plutonium-241	-1.15E-01	U	3.73E-01	6.84E-01	1.05E+00	1.05E+02
BP-5-SUB	Plutonium-241	-1.20E-01	UJ	3.18E-01	5.85E-01	1.05E+00	1.05E+02
BP-9-SUB	Plutonium-241	3.33E-01	U	3.32E-01	5.81E-01	1.05E+00	1.05E+02
BP-12-SUB	Plutonium-241	-1.39E-01	U	2.78E-01	5.12E-01	1.05E+00	1.05E+02
BP-13-SUB	Plutonium-241	-8.99E-03	U	3.39E-01	6.14E-01	1.05E+00	1.05E+02
BP-14-SUB	Plutonium-241	-2.87E-01	U	3.34E-01	6.22E-01	1.05E+00	1.05E+02
BP-16-SUB	Plutonium-241	2.12E-02	U	3.21E-01	5.80E-01	1.05E+00	1.05E+02
BP-20-SUB	Plutonium-241	-4.23E-02	UJ	3.18E-01	5.79E-01	1.05E+00	1.05E+02
BP-23-SUB	Plutonium-241	5.02E-02	U	2.71E-01	5.09E-01	1.05E+00	1.05E+02
BP-29-SUB	Plutonium-241	3.26E-01	U	4.03E-01	7.17E-01	1.05E+00	1.05E+02
BP-34-SUB	Plutonium-241	1.24E-01	U	3.39E-01	6.28E-01	1.05E+00	1.05E+02
BP-35-SUB	Plutonium-241	-1.21E-01	U	3.13E-01	6.12E-01	1.05E+00	1.05E+02
BP-38-SUB	Plutonium-241	3.49E-01	U	3.60E-01	6.31E-01	1.05E+00	1.05E+02
BP-43-SUB	Plutonium-241	-1.28E-02	U	3.14E-01	6.06E-01	1.05E+00	1.05E+02
BP-45-SUB	Plutonium-241	1.54E-01	U	3.57E-01	6.61E-01	1.05E+00	1.05E+02
BP-46-SUB	Plutonium-241	9.57E-02	U	4.79E-01	9.07E-01	1.05E+00	1.05E+02
BP-48-SUB	Plutonium-241	5.00E-02	U	3.12E-01	5.92E-01	1.05E+00	1.05E+02
BP-50-SUB	Plutonium-241	-5.37E-02	U	3.27E-01	6.36E-01	1.05E+00	1.05E+02
BP-51-SUB	Plutonium-241	2.35E-01	U	3.25E-01	5.86E-01	1.05E+00	1.05E+02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.36 - Plutonium-242 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Plutonium-242	7.49E-04	U	1.71E-03	3.99E-03	6.42E-03	6.42E-01
LR-2-SUR	Plutonium-242	-9.19E-04	U	4.20E-03	1.29E-02	6.42E-03	6.42E-01
LR-3-SUR	Plutonium-242	1.56E-03	U	4.35E-03	1.10E-02	6.42E-03	6.42E-01
LR-4-SUR	Plutonium-242	3.85E-03	U	4.69E-03	1.02E-02	6.42E-03	6.42E-01
LR-5-SUR	Plutonium-242	-3.39E-04	U	2.32E-03	6.39E-03	6.42E-03	6.42E-01
LR-6-SUR	Plutonium-242	1.77E-03		1.40E-03	2.35E-03	6.42E-03	6.42E-01
LR-7-SUR	Plutonium-242	6.84E-05	U	1.07E-03	2.95E-03	6.42E-03	6.42E-01
LR-8-SUR	Plutonium-242	7.76E-04	U	1.69E-03	3.96E-03	6.42E-03	6.42E-01
LR-9-SUR	Plutonium-242	2.70E-04	U	1.59E-03	4.13E-03	6.42E-03	6.42E-01
LR-10-SUR	Plutonium-242	6.28E-04	U	9.60E-04	2.23E-03	6.42E-03	6.42E-01
LR-11-SUR	Plutonium-242	4.21E-04	U	1.01E-03	2.65E-03	6.42E-03	6.42E-01
LR-12-SUR	Plutonium-242	1.21E-04	U	1.32E-03	3.53E-03	6.42E-03	6.42E-01
LR-13-SUR	Plutonium-242	-1.19E-03	U	1.56E-03	4.57E-03	6.42E-03	6.42E-01
LR-14-SUR	Plutonium-242	1.17E-03		1.08E-03	1.40E-03	6.42E-03	6.42E-01
LR-15-SUR	Plutonium-242	-9.02E-04	U	4.68E-03	1.38E-02	6.42E-03	6.42E-01
LR-16-SUR	Plutonium-242	-8.31E-04	U	3.80E-03	1.17E-02	6.42E-03	6.42E-01
LR-17-SUR	Plutonium-242	5.87E-03	U	6.77E-03	1.38E-02	6.42E-03	6.42E-01
LR-18-SUR	Plutonium-242	0.00E+00	U	6.50E-03	1.52E-02	6.42E-03	6.42E-01
LR-19-SUR	Plutonium-242	-8.86E-04	U	1.38E-03	4.06E-03	6.42E-03	6.42E-01
LR-20-SUR	Plutonium-242	-8.05E-04	U	1.40E-03	4.40E-03	6.42E-03	6.42E-01
LR-21-SUR	Plutonium-242	8.76E-04	U	1.10E-03	1.44E-03	6.42E-03	6.42E-01
LR-22-SUR	Plutonium-242	5.14E-04	U	7.85E-04	1.82E-03	6.42E-03	6.42E-01
LR-23-SUR	Plutonium-242	0.00E+00	U	1.26E-03	3.48E-03	6.42E-03	6.42E-01
LR-24-SUR	Plutonium-242	5.97E-04	U	1.37E-03	3.18E-03	6.42E-03	6.42E-01
LR-25-SUR	Plutonium-242	1.18E-03	U	2.47E-03	5.41E-03	6.42E-03	6.42E-01
LR-26-SUR	Plutonium-242	2.34E-04	U	1.07E-03	2.95E-03	6.42E-03	6.42E-01
LR-27-SUR	Plutonium-242	1.59E-03	U	1.96E-03	4.05E-03	6.42E-03	6.42E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Plutonium-242	-8.28E-05	U	1.15E-03	3.29E-03	6.42E-03	6.42E-01
LR-4-SUB	Plutonium-242	2.42E-04	U	1.42E-03	3.71E-03	6.42E-03	6.42E-01
LR-9-SUB	Plutonium-242	-1.47E-03	UL	1.36E-03	4.81E-03	6.42E-03	6.42E-01
LR-13-SUB	Plutonium-242	2.86E-04	U	1.31E-03	1.71E-03	6.42E-03	6.42E-01
LR-15-SUB	Plutonium-242	2.71E-04	U	1.41E-03	3.82E-03	6.42E-03	6.42E-01
LR-18-SUB	Plutonium-242	-2.72E-04	U	1.24E-03	3.42E-03	6.42E-03	6.42E-01
LR-19-SUB	Plutonium-242	-2.77E-04	U	1.26E-03	3.89E-03	6.42E-03	6.42E-01
LR-23-SUB	Plutonium-242	0.00E+00	U	2.16E-03	5.39E-03	6.42E-03	6.42E-01
LR-24-SUB	Plutonium-242	-2.36E-04	U	1.66E-03	4.31E-03	6.42E-03	6.42E-01
LR-26-SUB	Plutonium-242	2.22E-03	U	2.57E-03	3.33E-03	6.42E-03	6.42E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Plutonium-242	0.00E+00	U	1.23E-03	2.87E-03	6.42E-03	6.42E-01
RP-2-SUR	Plutonium-242	-7.88E-04	U	1.15E-03	3.87E-03	6.42E-03	6.42E-01
RP-3-SUR	Plutonium-242	1.99E-04	U	9.09E-04	2.12E-03	6.42E-03	6.42E-01
RP-4-SUR	Plutonium-242	1.01E-03	U	1.48E-03	3.27E-03	6.42E-03	6.42E-01
RP-5-SUR	Plutonium-242	4.49E-04	U	1.03E-03	1.35E-03	6.42E-03	6.42E-01
RP-6-SUR	Plutonium-242	5.81E-04	U	1.97E-03	4.76E-03	6.42E-03	6.42E-01
RP-7-SUR	Plutonium-242	0.00E+00	U	1.29E-03	3.02E-03	6.42E-03	6.42E-01
RP-8-SUR	Plutonium-242	-1.17E-04	U	1.33E-03	3.77E-03	6.42E-03	6.42E-01
RP-9-SUR	Plutonium-242	-2.02E-03	UL	1.44E-03	4.83E-03	6.42E-03	6.42E-01
RP-10-SUR	Plutonium-242	1.25E-03		1.06E-03	1.36E-03	6.42E-03	6.42E-01
RP-11-SUR	Plutonium-242	0.00E+00	U	1.28E-03	3.53E-03	6.42E-03	6.42E-01
RP-12-SUR	Plutonium-242	0.00E+00	U	1.13E-03	3.32E-03	6.42E-03	6.42E-01
RP-13-SUR	Plutonium-242	5.54E-04	U	1.27E-03	2.95E-03	6.42E-03	6.42E-01
RP-14-SUR	Plutonium-242	7.89E-05	U	2.44E-03	7.04E-03	6.42E-03	6.42E-01
RP-15-SUR	Plutonium-242	1.29E-03	U	1.80E-03	4.04E-03	6.42E-03	6.42E-01
RP-16-SUR	Plutonium-242	1.82E-03	U	2.10E-03	2.72E-03	6.42E-03	6.42E-01
RP-17-SUR	Plutonium-242	0.00E+00	U	1.12E-03	3.08E-03	6.42E-03	6.42E-01
RP-18-SUR	Plutonium-242	2.78E-04	U	1.11E-03	2.93E-03	6.42E-03	6.42E-01
RP-19-SUR	Plutonium-242	4.87E-04	U	1.65E-03	3.99E-03	6.42E-03	6.42E-01
RP-20-SUR	Plutonium-242	7.16E-04	U	1.10E-03	1.43E-03	6.42E-03	6.42E-01
RP-21-SUR	Plutonium-242	1.11E-03	U	1.34E-03	2.95E-03	6.42E-03	6.42E-01

Table 6.36 - Plutonium-242 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Plutonium-242	5.21E-04	U	1.25E-03	3.28E-03	6.42E-03	6.42E-01
RP-23-SUR	Plutonium-242	4.70E-04	U	1.08E-03	2.51E-03	6.42E-03	6.42E-01
RP-24-SUR	Plutonium-242	2.75E-04	U	2.09E-03	5.04E-03	6.42E-03	6.42E-01
RP-25-SUR	Plutonium-242	1.23E-03	U	1.46E-03	3.10E-03	6.42E-03	6.42E-01
RP-26-SUR	Plutonium-242	3.63E-04	U	1.08E-03	2.85E-03	6.42E-03	6.42E-01
RP-27-SUR	Plutonium-242	-4.29E-04	U	1.03E-03	3.28E-03	6.42E-03	6.42E-01
RP-28-SUR	Plutonium-242	-2.79E-04	U	1.64E-03	4.58E-03	6.42E-03	6.42E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Plutonium-242	1.31E-03	U	1.51E-03	1.97E-03	6.42E-03	6.42E-01
RP-5-SUB	Plutonium-242	-3.08E-04	U	1.41E-03	4.34E-03	6.42E-03	6.42E-01
RP-7-SUB	Plutonium-242	2.94E-04	U	1.34E-03	3.69E-03	6.42E-03	6.42E-01
RP-12-SUB	Plutonium-242	1.24E-03	U	2.12E-03	4.75E-03	6.42E-03	6.42E-01
RP-13-SUB	Plutonium-242	2.01E-04	U	1.52E-03	2.00E-03	6.42E-03	6.42E-01
RP-17-SUB	Plutonium-242	5.02E-04	U	1.15E-03	2.67E-03	6.42E-03	6.42E-01
RP-18-SUB	Plutonium-242	0.00E+00	U	1.01E-03	2.78E-03	6.42E-03	6.42E-01
RP-19-SUB	Plutonium-242	4.87E-04	U	1.51E-03	3.73E-03	6.42E-03	6.42E-01
RP-20-SUB	Plutonium-242	6.88E-04	U	2.13E-03	5.26E-03	6.42E-03	6.42E-01
RP-28-SUB	Plutonium-242	-2.72E-04	U	1.28E-03	2.95E-03	6.42E-03	6.42E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Plutonium-242	1.20E-03	U	2.09E-03	5.03E-03	6.42E-03	6.42E-01
BP-2-SUR	Plutonium-242	3.02E-04	U	1.57E-03	4.25E-03	6.42E-03	6.42E-01
BP-3-SUR	Plutonium-242	3.61E-04	U	1.65E-03	3.84E-03	6.42E-03	6.42E-01
BP-4-SUR	Plutonium-242	4.17E-04	U	1.30E-03	3.19E-03	6.42E-03	6.42E-01
BP-5-SUR	Plutonium-242	1.67E-03	U	2.99E-03	6.75E-03	6.42E-03	6.42E-01
BP-6-SUR	Plutonium-242	-2.99E-04	U	1.55E-03	4.58E-03	6.42E-03	6.42E-01
BP-7-SUR	Plutonium-242	8.00E-04	U	1.07E-03	2.48E-03	6.42E-03	6.42E-01
BP-8-SUR	Plutonium-242	-3.33E-04	U	1.52E-03	4.18E-03	6.42E-03	6.42E-01
BP-9-SUR	Plutonium-242	1.90E-04	U	8.68E-04	2.39E-03	6.42E-03	6.42E-01
BP-10-SUR	Plutonium-242	1.32E-03	U	2.39E-03	5.07E-03	6.42E-03	6.42E-01
BP-11-SUR	Plutonium-242	9.64E-04	U	1.48E-03	3.42E-03	6.42E-03	6.42E-01
BP-12-SUR	Plutonium-242	-3.14E-04	U	1.63E-03	4.81E-03	6.42E-03	6.42E-01
BP-13-SUR	Plutonium-242	-2.90E-04	U	1.71E-03	4.76E-03	6.42E-03	6.42E-01
BP-14-SUR	Plutonium-242	2.55E-04	U	1.16E-03	3.20E-03	6.42E-03	6.42E-01
BP-15-SUR	Plutonium-242	2.70E-04	U	1.23E-03	2.87E-03	6.42E-03	6.42E-01
BP-16-SUR	Plutonium-242	1.27E-03	U	2.17E-03	4.64E-03	6.42E-03	6.42E-01
BP-17-SUR	Plutonium-242	-2.82E-04	U	1.32E-03	3.92E-03	6.42E-03	6.42E-01
BP-18-SUR	Plutonium-242	2.13E-03	U	2.88E-03	5.82E-03	6.42E-03	6.42E-01
BP-19-SUR	Plutonium-242	4.30E-04	U	2.53E-03	6.59E-03	6.42E-03	6.42E-01
BP-20-SUR	Plutonium-242	3.21E-04	U	1.47E-03	1.93E-03	6.42E-03	6.42E-01
BP-21-SUR	Plutonium-242	-1.45E-03	U	2.26E-03	6.64E-03	6.42E-03	6.42E-01
BP-22-SUR	Plutonium-242	1.32E-03		1.08E-03	1.32E-03	6.42E-03	6.42E-01
BP-23-SUR	Plutonium-242	-1.59E-03	U	2.43E-03	8.10E-03	6.42E-03	6.42E-01
BP-24-SUR	Plutonium-242	6.06E-04	U	2.06E-03	5.10E-03	6.42E-03	6.42E-01
BP-25-SUR	Plutonium-242	7.20E-04	U	1.10E-03	2.56E-03	6.42E-03	6.42E-01
BP-26-SUR	Plutonium-242	4.02E-04	U	1.83E-03	2.41E-03	6.42E-03	6.42E-01
BP-27-SUR	Plutonium-242	2.06E-03		1.91E-03	2.47E-03	6.42E-03	6.42E-01
BP-28-SUR	Plutonium-242	1.16E-03	U	3.32E-03	7.44E-03	6.42E-03	6.42E-01
BP-29-SUR	Plutonium-242	-1.06E-03	U	2.31E-03	6.47E-03	6.42E-03	6.42E-01
BP-30-SUR	Plutonium-242	9.98E-04	U	2.10E-03	4.91E-03	6.42E-03	6.42E-01
BP-31-SUR	Plutonium-242	5.93E-04	U	1.36E-03	3.16E-03	6.42E-03	6.42E-01
BP-32-SUR	Plutonium-242	2.48E-04	U	1.28E-03	3.48E-03	6.42E-03	6.42E-01
BP-33-SUR	Plutonium-242	-9.31E-04	U	2.02E-03	5.68E-03	6.42E-03	6.42E-01
BP-34-SUR	Plutonium-242	-3.24E-04	U	8.31E-04	2.62E-03	6.42E-03	6.42E-01
BP-35-SUR	Plutonium-242	-3.16E-04	U	1.74E-03	4.55E-03	6.42E-03	6.42E-01
BP-36-SUR	Plutonium-242	8.24E-04	U	1.95E-03	4.51E-03	6.42E-03	6.42E-01
BP-37-SUR	Plutonium-242	8.33E-04	U	1.14E-03	1.49E-03	6.42E-03	6.42E-01
BP-38-SUR	Plutonium-242	1.49E-03		1.38E-03	2.58E-03	6.42E-03	6.42E-01
BP-39-SUR	Plutonium-242	2.71E-04	U	1.24E-03	3.41E-03	6.42E-03	6.42E-01
BP-40-SUR	Plutonium-242	1.54E-03	U	1.52E-03	2.95E-03	6.42E-03	6.42E-01
BP-41-SUR	Plutonium-242	-5.08E-04	U	1.73E-03	4.66E-03	6.42E-03	6.42E-01
BP-42-SUR	Plutonium-242	1.14E-03	U	1.35E-03	2.86E-03	6.42E-03	6.42E-01

Table 6.36 - Plutonium-242 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Plutonium-242	7.23E-04	U	1.21E-03	2.84E-03	6.42E-03	6.42E-01
BP-44-SUR	Plutonium-242	0.00E+00	U	1.41E-03	3.89E-03	6.42E-03	6.42E-01
BP-45-SUR	Plutonium-242	-7.24E-04	U	1.57E-03	4.42E-03	6.42E-03	6.42E-01
BP-46-SUR	Plutonium-242	-2.95E-04	U	1.74E-03	4.84E-03	6.42E-03	6.42E-01
BP-47-SUR	Plutonium-242	5.73E-04	U	1.31E-03	1.72E-03	6.42E-03	6.42E-01
BP-48-SUR	Plutonium-242	0.00E+00	U	1.14E-03	3.35E-03	6.42E-03	6.42E-01
BP-49-SUR	Plutonium-242	-1.23E-03	U	1.49E-03	4.57E-03	6.42E-03	6.42E-01
BP-50-SUR	Plutonium-242	-2.98E-04	U	1.75E-03	4.89E-03	6.42E-03	6.42E-01
BP-51-SUR	Plutonium-242	8.42E-04	U	1.24E-03	1.62E-03	6.42E-03	6.42E-01
BP-52-SUR	Plutonium-242	7.85E-04	U	1.20E-03	2.79E-03	6.42E-03	6.42E-01
BP-53-SUR	Plutonium-242	4.77E-04	U	1.15E-03	3.00E-03	6.42E-03	6.42E-01
BP-54-SUR	Plutonium-242	9.67E-04	U	1.26E-03	2.89E-03	6.42E-03	6.42E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Plutonium-242	-3.61E-04	U	2.74E-03	6.92E-03	6.42E-03	6.42E-01
BP-4-SUB	Plutonium-242	3.28E-03		2.22E-03	2.19E-03	6.42E-03	6.42E-01
BP-5-SUB	Plutonium-242	1.17E-03	U	2.58E-03	6.04E-03	6.42E-03	6.42E-01
BP-9-SUB	Plutonium-242	4.80E-04	U	1.49E-03	3.67E-03	6.42E-03	6.42E-01
BP-12-SUB	Plutonium-242	-6.19E-04	U	1.49E-03	4.74E-03	6.42E-03	6.42E-01
BP-13-SUB	Plutonium-242	1.17E-03	U	2.00E-03	4.61E-03	6.42E-03	6.42E-01
BP-14-SUB	Plutonium-242	8.07E-04	U	2.24E-03	5.67E-03	6.42E-03	6.42E-01
BP-16-SUB	Plutonium-242	2.77E-03		2.51E-03	4.62E-03	6.42E-03	6.42E-01
BP-20-SUB	Plutonium-242	4.65E-03		2.83E-03	3.81E-03	6.42E-03	6.42E-01
BP-23-SUB	Plutonium-242	2.08E-04	U	1.08E-03	2.92E-03	6.42E-03	6.42E-01
BP-29-SUB	Plutonium-242	-6.65E-04	U	1.60E-03	5.09E-03	6.42E-03	6.42E-01
BP-34-SUB	Plutonium-242	2.52E-04	U	1.77E-03	4.63E-03	6.42E-03	6.42E-01
BP-35-SUB	Plutonium-242	5.58E-04	U	9.96E-04	2.32E-03	6.42E-03	6.42E-01
BP-38-SUB	Plutonium-242	2.27E-04	U	1.04E-03	2.86E-03	6.42E-03	6.42E-01
BP-43-SUB	Plutonium-242	3.55E-04	U	1.49E-03	4.04E-03	6.42E-03	6.42E-01
BP-45-SUB	Plutonium-242	-3.90E-04	U	1.76E-03	5.21E-03	6.42E-03	6.42E-01
BP-46-SUB	Plutonium-242	8.55E-04	U	1.96E-03	4.56E-03	6.42E-03	6.42E-01
BP-48-SUB	Plutonium-242	6.62E-04	U	1.51E-03	3.90E-03	6.42E-03	6.42E-01
BP-50-SUB	Plutonium-242	0.00E+00	U	1.33E-03	3.90E-03	6.42E-03	6.42E-01
BP-51-SUB	Plutonium-242	2.60E-04	U	1.35E-03	3.66E-03	6.42E-03	6.42E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.37 - Plutonium-244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Plutonium-244	1.12E-04	U	1.75E-03	5.11E-03	5.06E-03	5.06E-01
LR-2-SUR	Plutonium-244	9.19E-04	U	4.20E-03	5.51E-03	5.06E-03	5.06E-01
LR-3-SUR	Plutonium-244	0.00E+00	U	3.57E-03	9.84E-03	5.06E-03	5.06E-01
LR-4-SUR	Plutonium-244	-9.61E-04	U	4.39E-03	1.02E-02	5.06E-03	5.06E-01
LR-5-SUR	Plutonium-244	-2.20E-03	U	2.35E-03	7.96E-03	5.06E-03	5.06E-01
LR-6-SUR	Plutonium-244	-1.55E-04	U	1.01E-03	3.02E-03	5.06E-03	5.06E-01
LR-7-SUR	Plutonium-244	-8.56E-04	U	1.08E-03	3.68E-03	5.06E-03	5.06E-01
LR-8-SUR	Plutonium-244	7.72E-05	U	1.18E-03	2.76E-03	5.06E-03	5.06E-01
LR-9-SUR	Plutonium-244	-2.70E-04	U	1.23E-03	2.87E-03	5.06E-03	5.06E-01
LR-10-SUR	Plutonium-244	-3.25E-04	U	9.57E-04	2.86E-03	5.06E-03	5.06E-01
LR-11-SUR	Plutonium-244	-2.79E-04	U	1.12E-03	3.30E-03	5.06E-03	5.06E-01
LR-12-SUR	Plutonium-244	0.00E+00	U	1.05E-03	2.46E-03	5.06E-03	5.06E-01
LR-13-SUR	Plutonium-244	7.15E-04	U	1.09E-03	2.54E-03	5.06E-03	5.06E-01
LR-14-SUR	Plutonium-244	0.00E+00	U	1.12E-03	3.29E-03	5.06E-03	5.06E-01
LR-15-SUR	Plutonium-244	0.00E+00	U	4.12E-03	5.41E-03	5.06E-03	5.06E-01
LR-16-SUR	Plutonium-244	8.31E-04	U	3.80E-03	4.99E-03	5.06E-03	5.06E-01
LR-17-SUR	Plutonium-244	-9.79E-04	U	4.47E-03	1.23E-02	5.06E-03	5.06E-01
LR-18-SUR	Plutonium-244	-1.42E-03	U	6.51E-03	1.52E-02	5.06E-03	5.06E-01
LR-19-SUR	Plutonium-244	0.00E+00	U	1.01E-03	2.36E-03	5.06E-03	5.06E-01
LR-20-SUR	Plutonium-244	1.07E-04	U	1.22E-03	2.57E-03	5.06E-03	5.06E-01
LR-21-SUR	Plutonium-244	-2.40E-04	U	1.10E-03	2.56E-03	5.06E-03	5.06E-01
LR-22-SUR	Plutonium-244	-1.71E-04	U	7.82E-04	1.82E-03	5.06E-03	5.06E-01
LR-23-SUR	Plutonium-244	-2.77E-04	U	1.26E-03	2.95E-03	5.06E-03	5.06E-01
LR-24-SUR	Plutonium-244	-2.99E-04	U	1.36E-03	3.18E-03	5.06E-03	5.06E-01
LR-25-SUR	Plutonium-244	-2.96E-04	U	1.35E-03	3.72E-03	5.06E-03	5.06E-01
LR-26-SUR	Plutonium-244	7.02E-04	U	1.07E-03	2.49E-03	5.06E-03	5.06E-01
LR-27-SUR	Plutonium-244	0.00E+00	U	1.21E-03	1.59E-03	5.06E-03	5.06E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Plutonium-244	-2.51E-04	U	1.15E-03	3.16E-03	5.06E-03	5.06E-01
LR-4-SUB	Plutonium-244	-2.06E-04	U	1.11E-03	2.58E-03	5.06E-03	5.06E-01
LR-9-SUB	Plutonium-244	0.00E+00	U	1.34E-03	3.12E-03	5.06E-03	5.06E-01
LR-13-SUB	Plutonium-244	1.14E-03	U	1.60E-03	3.60E-03	5.06E-03	5.06E-01
LR-15-SUB	Plutonium-244	1.36E-03		1.26E-03	1.63E-03	5.06E-03	5.06E-01
LR-18-SUB	Plutonium-244	-2.72E-04	U	1.24E-03	2.90E-03	5.06E-03	5.06E-01
LR-19-SUB	Plutonium-244	2.77E-04	U	1.26E-03	2.95E-03	5.06E-03	5.06E-01
LR-23-SUB	Plutonium-244	0.00E+00	U	1.34E-03	1.77E-03	5.06E-03	5.06E-01
LR-24-SUB	Plutonium-244	-4.71E-04	U	1.08E-03	2.96E-03	5.06E-03	5.06E-01
LR-26-SUB	Plutonium-244	0.00E+00	U	2.53E-03	5.91E-03	5.06E-03	5.06E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Plutonium-244	-2.69E-04	U	1.23E-03	2.87E-03	5.06E-03	5.06E-01
RP-2-SUR	Plutonium-244	2.50E-04	U	1.14E-03	1.50E-03	5.06E-03	5.06E-01
RP-3-SUR	Plutonium-244	-3.39E-04	U	9.10E-04	2.72E-03	5.06E-03	5.06E-01
RP-4-SUR	Plutonium-244	-6.98E-04	U	1.21E-03	3.82E-03	5.06E-03	5.06E-01
RP-5-SUR	Plutonium-244	2.25E-04	U	1.03E-03	2.39E-03	5.06E-03	5.06E-01
RP-6-SUR	Plutonium-244	5.81E-04	U	1.33E-03	3.09E-03	5.06E-03	5.06E-01
RP-7-SUR	Plutonium-244	-2.83E-04	U	1.29E-03	3.56E-03	5.06E-03	5.06E-01
RP-8-SUR	Plutonium-244	1.08E-04	U	1.12E-03	2.63E-03	5.06E-03	5.06E-01
RP-9-SUR	Plutonium-244	1.06E-04	U	1.15E-03	2.69E-03	5.06E-03	5.06E-01
RP-10-SUR	Plutonium-244	-6.82E-04	U	1.04E-03	3.20E-03	5.06E-03	5.06E-01
RP-11-SUR	Plutonium-244	4.61E-04	U	1.06E-03	1.38E-03	5.06E-03	5.06E-01
RP-12-SUR	Plutonium-244	1.18E-03		1.09E-03	1.42E-03	5.06E-03	5.06E-01
RP-13-SUR	Plutonium-244	2.77E-04	U	1.26E-03	1.66E-03	5.06E-03	5.06E-01
RP-14-SUR	Plutonium-244	5.01E-04	U	2.29E-03	3.01E-03	5.06E-03	5.06E-01
RP-15-SUR	Plutonium-244	-4.26E-04	U	1.71E-03	5.04E-03	5.06E-03	5.06E-01
RP-16-SUR	Plutonium-244	3.22E-05	U	2.07E-03	4.84E-03	5.06E-03	5.06E-01
RP-17-SUR	Plutonium-244	4.90E-04	U	1.12E-03	1.47E-03	5.06E-03	5.06E-01
RP-18-SUR	Plutonium-244	-8.34E-04	U	1.01E-03	3.42E-03	5.06E-03	5.06E-01
RP-19-SUR	Plutonium-244	9.83E-05	U	1.11E-03	2.33E-03	5.06E-03	5.06E-01
RP-20-SUR	Plutonium-244	0.00E+00	U	1.09E-03	2.54E-03	5.06E-03	5.06E-01
RP-21-SUR	Plutonium-244	1.07E-03	U	1.33E-03	2.95E-03	5.06E-03	5.06E-01

Table 6.37 - Plutonium-244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Plutonium-244	2.60E-04	U	1.19E-03	2.77E-03	5.06E-03	5.06E-01
RP-23-SUR	Plutonium-244	0.00E+00	U	1.07E-03	2.51E-03	5.06E-03	5.06E-01
RP-24-SUR	Plutonium-244	-4.13E-05	U	1.26E-03	3.46E-03	5.06E-03	5.06E-01
RP-25-SUR	Plutonium-244	2.47E-04	U	1.13E-03	2.63E-03	5.06E-03	5.06E-01
RP-26-SUR	Plutonium-244	-4.36E-04	U	9.96E-04	2.74E-03	5.06E-03	5.06E-01
RP-27-SUR	Plutonium-244	0.00E+00	U	9.78E-04	2.28E-03	5.06E-03	5.06E-01
RP-28-SUR	Plutonium-244	0.00E+00	U	1.27E-03	2.97E-03	5.06E-03	5.06E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Plutonium-244	-3.28E-04	U	1.50E-03	4.12E-03	5.06E-03	5.06E-01
RP-5-SUB	Plutonium-244	3.08E-04	U	1.41E-03	1.85E-03	5.06E-03	5.06E-01
RP-7-SUB	Plutonium-244	0.00E+00	U	1.34E-03	3.13E-03	5.06E-03	5.06E-01
RP-12-SUB	Plutonium-244	-3.10E-04	U	1.42E-03	3.31E-03	5.06E-03	5.06E-01
RP-13-SUB	Plutonium-244	-3.33E-04	U	1.52E-03	3.55E-03	5.06E-03	5.06E-01
RP-17-SUB	Plutonium-244	-6.78E-04	U	1.15E-03	3.42E-03	5.06E-03	5.06E-01
RP-18-SUB	Plutonium-244	-7.34E-04	U	1.01E-03	3.46E-03	5.06E-03	5.06E-01
RP-19-SUB	Plutonium-244	0.00E+00	U	1.11E-03	2.59E-03	5.06E-03	5.06E-01
RP-20-SUB	Plutonium-244	0.00E+00	U	1.57E-03	3.66E-03	5.06E-03	5.06E-01
RP-28-SUB	Plutonium-244	-5.44E-04	U	1.28E-03	3.48E-03	5.06E-03	5.06E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Plutonium-244	8.00E-04	U	1.83E-03	2.40E-03	5.06E-03	5.06E-01
BP-2-SUR	Plutonium-244	-6.04E-04	U	1.38E-03	3.80E-03	5.06E-03	5.06E-01
BP-3-SUR	Plutonium-244	0.00E+00	U	1.65E-03	3.84E-03	5.06E-03	5.06E-01
BP-4-SUR	Plutonium-244	3.14E-05	U	9.52E-04	2.22E-03	5.06E-03	5.06E-01
BP-5-SUR	Plutonium-244	1.31E-03	U	2.00E-03	2.62E-03	5.06E-03	5.06E-01
BP-6-SUR	Plutonium-244	-2.82E-04	U	1.37E-03	3.19E-03	5.06E-03	5.06E-01
BP-7-SUR	Plutonium-244	-1.63E-04	U	1.06E-03	3.18E-03	5.06E-03	5.06E-01
BP-8-SUR	Plutonium-244	3.33E-04	U	1.52E-03	3.54E-03	5.06E-03	5.06E-01
BP-9-SUR	Plutonium-244	-6.27E-05	U	1.07E-03	2.98E-03	5.06E-03	5.06E-01
BP-10-SUR	Plutonium-244	-2.65E-04	U	1.21E-03	3.72E-03	5.06E-03	5.06E-01
BP-11-SUR	Plutonium-244	0.00E+00	U	1.54E-03	4.52E-03	5.06E-03	5.06E-01
BP-12-SUR	Plutonium-244	0.00E+00	U	1.43E-03	3.35E-03	5.06E-03	5.06E-01
BP-13-SUR	Plutonium-244	5.80E-04	U	1.33E-03	3.09E-03	5.06E-03	5.06E-01
BP-14-SUR	Plutonium-244	-5.09E-04	U	1.16E-03	3.58E-03	5.06E-03	5.06E-01
BP-15-SUR	Plutonium-244	1.35E-03		1.25E-03	1.62E-03	5.06E-03	5.06E-01
BP-16-SUR	Plutonium-244	7.60E-04	U	1.16E-03	1.52E-03	5.06E-03	5.06E-01
BP-17-SUR	Plutonium-244	2.56E-04	U	1.17E-03	2.73E-03	5.06E-03	5.06E-01
BP-18-SUR	Plutonium-244	2.43E-03		1.73E-03	1.82E-03	5.06E-03	5.06E-01
BP-19-SUR	Plutonium-244	0.00E+00	U	1.96E-03	4.58E-03	5.06E-03	5.06E-01
BP-20-SUR	Plutonium-244	-3.21E-04	U	1.47E-03	3.42E-03	5.06E-03	5.06E-01
BP-21-SUR	Plutonium-244	7.25E-04	U	1.66E-03	2.18E-03	5.06E-03	5.06E-01
BP-22-SUR	Plutonium-244	-4.40E-04	U	1.01E-03	3.09E-03	5.06E-03	5.06E-01
BP-23-SUR	Plutonium-244	-5.29E-04	U	2.42E-03	5.63E-03	5.06E-03	5.06E-01
BP-24-SUR	Plutonium-244	9.87E-04	U	1.51E-03	1.97E-03	5.06E-03	5.06E-01
BP-25-SUR	Plutonium-244	7.16E-05	U	1.12E-03	3.28E-03	5.06E-03	5.06E-01
BP-26-SUR	Plutonium-244	4.02E-04	U	1.83E-03	4.28E-03	5.06E-03	5.06E-01
BP-27-SUR	Plutonium-244	4.11E-04	U	1.88E-03	4.38E-03	5.06E-03	5.06E-01
BP-28-SUR	Plutonium-244	0.00E+00	U	1.77E-03	2.33E-03	5.06E-03	5.06E-01
BP-29-SUR	Plutonium-244	7.07E-04	U	1.62E-03	2.12E-03	5.06E-03	5.06E-01
BP-30-SUR	Plutonium-244	3.21E-04	U	1.47E-03	1.93E-03	5.06E-03	5.06E-01
BP-31-SUR	Plutonium-244	-2.08E-04	U	1.35E-03	4.05E-03	5.06E-03	5.06E-01
BP-32-SUR	Plutonium-244	7.43E-04	U	1.14E-03	1.49E-03	5.06E-03	5.06E-01
BP-33-SUR	Plutonium-244	6.21E-04	U	1.42E-03	1.86E-03	5.06E-03	5.06E-01
BP-34-SUR	Plutonium-244	1.71E-04	U	7.82E-04	1.03E-03	5.06E-03	5.06E-01
BP-35-SUR	Plutonium-244	2.49E-04	U	1.14E-03	2.65E-03	5.06E-03	5.06E-01
BP-36-SUR	Plutonium-244	4.97E-04	U	1.26E-03	2.63E-03	5.06E-03	5.06E-01
BP-37-SUR	Plutonium-244	-2.11E-04	U	1.13E-03	2.65E-03	5.06E-03	5.06E-01
BP-38-SUR	Plutonium-244	2.42E-04	U	1.11E-03	2.58E-03	5.06E-03	5.06E-01
BP-39-SUR	Plutonium-244	0.00E+00	U	1.24E-03	2.89E-03	5.06E-03	5.06E-01
BP-40-SUR	Plutonium-244	-2.11E-04	U	1.27E-03	2.95E-03	5.06E-03	5.06E-01
BP-41-SUR	Plutonium-244	0.00E+00	U	1.16E-03	3.20E-03	5.06E-03	5.06E-01
BP-42-SUR	Plutonium-244	6.81E-04	U	1.04E-03	2.42E-03	5.06E-03	5.06E-01

Table 6.37 - Plutonium-244 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Plutonium-244	-4.33E-04	U	9.90E-04	2.72E-03	5.06E-03	5.06E-01
BP-44-SUR	Plutonium-244	2.54E-04	U	1.16E-03	2.71E-03	5.06E-03	5.06E-01
BP-45-SUR	Plutonium-244	0.00E+00	U	1.10E-03	2.57E-03	5.06E-03	5.06E-01
BP-46-SUR	Plutonium-244	0.00E+00	U	1.35E-03	3.15E-03	5.06E-03	5.06E-01
BP-47-SUR	Plutonium-244	-2.95E-04	U	1.31E-03	3.60E-03	5.06E-03	5.06E-01
BP-48-SUR	Plutonium-244	-2.38E-04	U	1.09E-03	2.53E-03	5.06E-03	5.06E-01
BP-49-SUR	Plutonium-244	0.00E+00	U	1.14E-03	2.66E-03	5.06E-03	5.06E-01
BP-50-SUR	Plutonium-244	1.61E-03		1.52E-03	2.86E-03	5.06E-03	5.06E-01
BP-51-SUR	Plutonium-244	2.71E-04	U	1.24E-03	2.88E-03	5.06E-03	5.06E-01
BP-52-SUR	Plutonium-244	0.00E+00	U	1.19E-03	2.79E-03	5.06E-03	5.06E-01
BP-53-SUR	Plutonium-244	-2.38E-04	U	1.09E-03	2.54E-03	5.06E-03	5.06E-01
BP-54-SUR	Plutonium-244	-2.71E-04	U	1.24E-03	2.89E-03	5.06E-03	5.06E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Plutonium-244	-3.61E-04	U	1.65E-03	3.85E-03	5.06E-03	5.06E-01
BP-4-SUB	Plutonium-244	-7.29E-04	U	1.67E-03	5.13E-03	5.06E-03	5.06E-01
BP-5-SUB	Plutonium-244	1.17E-03	U	1.79E-03	2.34E-03	5.06E-03	5.06E-01
BP-9-SUB	Plutonium-244	4.80E-04	U	1.10E-03	2.56E-03	5.06E-03	5.06E-01
BP-12-SUB	Plutonium-244	3.10E-04	U	1.41E-03	1.86E-03	5.06E-03	5.06E-01
BP-13-SUB	Plutonium-244	6.55E-04	U	1.50E-03	1.97E-03	5.06E-03	5.06E-01
BP-14-SUB	Plutonium-244	-4.03E-04	U	1.84E-03	5.07E-03	5.06E-03	5.06E-01
BP-16-SUB	Plutonium-244	0.00E+00	U	1.98E-03	4.62E-03	5.06E-03	5.06E-01
BP-20-SUB	Plutonium-244	-1.97E-04	U	1.63E-03	4.89E-03	5.06E-03	5.06E-01
BP-23-SUB	Plutonium-244	2.08E-04	U	9.48E-04	2.61E-03	5.06E-03	5.06E-01
BP-29-SUB	Plutonium-244	-3.33E-04	U	1.52E-03	3.54E-03	5.06E-03	5.06E-01
BP-34-SUB	Plutonium-244	2.99E-04	U	1.37E-03	1.79E-03	5.06E-03	5.06E-01
BP-35-SUB	Plutonium-244	-4.03E-04	U	9.94E-04	2.97E-03	5.06E-03	5.06E-01
BP-38-SUB	Plutonium-244	-8.22E-04	U	1.04E-03	3.56E-03	5.06E-03	5.06E-01
BP-43-SUB	Plutonium-244	-9.48E-04	U	1.50E-03	4.51E-03	5.06E-03	5.06E-01
BP-45-SUB	Plutonium-244	3.87E-04	U	1.54E-03	2.02E-03	5.06E-03	5.06E-01
BP-46-SUB	Plutonium-244	-3.34E-04	U	1.95E-03	4.56E-03	5.06E-03	5.06E-01
BP-48-SUB	Plutonium-244	6.37E-04	U	1.44E-03	1.87E-03	5.06E-03	5.06E-01
BP-50-SUB	Plutonium-244	2.13E-04	U	1.27E-03	3.49E-03	5.06E-03	5.06E-01
BP-51-SUB	Plutonium-244	0.00E+00	U	1.19E-03	1.56E-03	5.06E-03	5.06E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.38 - Polonium-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Polonium-210	1.48E+00		3.39E-01	1.41E-01	1.94E+01	1.94E+03
LR-2-SUR	Polonium-210	1.04E+00		3.05E-01	1.72E-01	1.94E+01	1.94E+03
LR-3-SUR	Polonium-210	1.02E+00		2.43E-01	8.79E-02	1.94E+01	1.94E+03
LR-4-SUR	Polonium-210	1.15E+00		2.50E-01	9.45E-02	1.94E+01	1.94E+03
LR-5-SUR	Polonium-210	1.39E+00		3.72E-01	7.84E-02	1.94E+01	1.94E+03
LR-6-SUR	Polonium-210	1.12E+00		3.52E-01	2.27E-01	1.94E+01	1.94E+03
LR-7-SUR	Polonium-210	1.46E+00		3.64E-01	1.70E-01	1.94E+01	1.94E+03
LR-8-SUR	Polonium-210	1.04E+00		2.60E-01	1.52E-01	1.94E+01	1.94E+03
LR-9-SUR	Polonium-210	1.23E+00		3.98E-01	2.06E-01	1.94E+01	1.94E+03
LR-10-SUR	Polonium-210	1.45E+00		3.81E-01	1.78E-01	1.94E+01	1.94E+03
LR-11-SUR	Polonium-210	1.06E+00		3.07E-01	2.35E-01	1.94E+01	1.94E+03
LR-12-SUR	Polonium-210	1.16E+00		2.76E-01	1.09E-01	1.94E+01	1.94E+03
LR-13-SUR	Polonium-210	9.07E-01		2.50E-01	1.70E-01	1.94E+01	1.94E+03
LR-14-SUR	Polonium-210	1.07E+00		3.41E-01	1.55E-01	1.94E+01	1.94E+03
LR-15-SUR	Polonium-210	1.07E+00		3.72E-01	2.06E-01	1.94E+01	1.94E+03
LR-16-SUR	Polonium-210	1.14E+00		4.48E-01	3.56E-01	1.94E+01	1.94E+03
LR-17-SUR	Polonium-210	1.52E+00		4.94E-01	1.29E-01	1.94E+01	1.94E+03
LR-18-SUR	Polonium-210	1.60E+00		5.06E-01	2.84E-01	1.94E+01	1.94E+03
LR-19-SUR	Polonium-210	9.32E-01		3.20E-01	1.63E-01	1.94E+01	1.94E+03
LR-20-SUR	Polonium-210	1.06E+00		3.56E-01	2.13E-01	1.94E+01	1.94E+03
LR-21-SUR	Polonium-210	1.13E+00		3.10E-01	1.22E-01	1.94E+01	1.94E+03
LR-22-SUR	Polonium-210	1.15E+00		3.05E-01	1.14E-01	1.94E+01	1.94E+03
LR-23-SUR	Polonium-210	1.28E+00		3.71E-01	1.28E-01	1.94E+01	1.94E+03
LR-24-SUR	Polonium-210	1.20E+00		2.98E-01	9.30E-02	1.94E+01	1.94E+03
LR-25-SUR	Polonium-210	1.17E+00		3.00E-01	1.06E-01	1.94E+01	1.94E+03
LR-26-SUR	Polonium-210	1.15E+00		3.03E-01	8.97E-02	1.94E+01	1.94E+03
LR-27-SUR	Polonium-210	1.23E+00		3.80E-01	1.80E-01	1.94E+01	1.94E+03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Polonium-210	1.20E+00		3.01E-01	1.04E-01	1.94E+01	1.94E+03
LR-4-SUB	Polonium-210	1.29E+00		2.95E-01	7.53E-02	1.94E+01	1.94E+03
LR-9-SUB	Polonium-210	1.04E+00		3.92E-01	2.32E-01	1.94E+01	1.94E+03
LR-13-SUB	Polonium-210	1.16E+00		3.44E-01	1.68E-01	1.94E+01	1.94E+03
LR-15-SUB	Polonium-210	1.09E+00		3.41E-01	2.27E-01	1.94E+01	1.94E+03
LR-18-SUB	Polonium-210	1.10E+00		3.05E-01	1.22E-01	1.94E+01	1.94E+03
LR-19-SUB	Polonium-210	1.51E+00		3.45E-01	1.03E-01	1.94E+01	1.94E+03
LR-23-SUB	Polonium-210	1.15E+00		3.43E-01	1.87E-01	1.94E+01	1.94E+03
LR-24-SUB	Polonium-210	1.92E+00		4.33E-01	1.30E-01	1.94E+01	1.94E+03
LR-26-SUB	Polonium-210	1.54E+00		3.49E-01	1.02E-01	1.94E+01	1.94E+03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Polonium-210	7.28E-01		2.60E-01	1.71E-01	1.94E+01	1.94E+03
RP-2-SUR	Polonium-210	7.14E-01		2.76E-01	2.22E-01	1.94E+01	1.94E+03
RP-3-SUR	Polonium-210	1.26E+00		4.31E-01	3.11E-01	1.94E+01	1.94E+03
RP-4-SUR	Polonium-210	1.20E+00		2.94E-01	7.65E-02	1.94E+01	1.94E+03
RP-5-SUR	Polonium-210	1.69E+00		4.01E-01	1.42E-01	1.94E+01	1.94E+03
RP-6-SUR	Polonium-210	1.45E+00		4.12E-01	8.71E-02	1.94E+01	1.94E+03
RP-7-SUR	Polonium-210	1.09E+00		3.84E-01	3.07E-01	1.94E+01	1.94E+03
RP-8-SUR	Polonium-210	8.06E-01		2.66E-01	1.57E-01	1.94E+01	1.94E+03
RP-9-SUR	Polonium-210	7.67E-01		2.33E-01	5.69E-02	1.94E+01	1.94E+03
RP-10-SUR	Polonium-210	9.62E-01		2.68E-01	1.18E-01	1.94E+01	1.94E+03
RP-11-SUR	Polonium-210	7.50E-01		2.44E-01	1.31E-01	1.94E+01	1.94E+03
RP-12-SUR	Polonium-210	1.12E+00		3.42E-01	8.29E-02	1.94E+01	1.94E+03
RP-13-SUR	Polonium-210	1.39E+00		3.58E-01	1.01E-01	1.94E+01	1.94E+03
RP-14-SUR	Polonium-210	1.75E+00		4.63E-01	2.53E-01	1.94E+01	1.94E+03
RP-15-SUR	Polonium-210	1.60E+00		3.83E-01	1.72E-01	1.94E+01	1.94E+03
RP-16-SUR	Polonium-210	1.70E+00		4.29E-01	1.95E-01	1.94E+01	1.94E+03
RP-17-SUR	Polonium-210	7.14E-01		2.23E-01	1.35E-01	1.94E+01	1.94E+03
RP-18-SUR	Polonium-210	1.59E+00		3.80E-01	1.43E-01	1.94E+01	1.94E+03
RP-19-SUR	Polonium-210	1.61E+00		3.97E-01	1.29E-01	1.94E+01	1.94E+03
RP-20-SUR	Polonium-210	1.65E+00		4.16E-01	1.27E-01	1.94E+01	1.94E+03
RP-21-SUR	Polonium-210	9.29E-01		2.52E-01	1.06E-01	1.94E+01	1.94E+03

Table 6.38 - Polonium-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Polonium-210	1.43E+00		3.45E-01	1.08E-01	1.94E+01	1.94E+03
RP-23-SUR	Polonium-210	8.46E-01		2.29E-01	1.09E-01	1.94E+01	1.94E+03
RP-24-SUR	Polonium-210	9.77E-01		2.80E-01	9.59E-02	1.94E+01	1.94E+03
RP-25-SUR	Polonium-210	1.12E+00		2.94E-01	1.23E-01	1.94E+01	1.94E+03
RP-26-SUR	Polonium-210	1.05E+00		3.70E-01	2.55E-01	1.94E+01	1.94E+03
RP-27-SUR	Polonium-210	8.67E-01		2.79E-01	1.60E-01	1.94E+01	1.94E+03
RP-28-SUR	Polonium-210	1.46E+00		3.47E-01	1.12E-01	1.94E+01	1.94E+03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Polonium-210	1.36E+00		3.33E-01	1.33E-01	1.94E+01	1.94E+03
RP-5-SUB	Polonium-210	1.40E+00		3.62E-01	1.80E-01	1.94E+01	1.94E+03
RP-7-SUB	Polonium-210	1.59E+00		3.93E-01	1.43E-01	1.94E+01	1.94E+03
RP-12-SUB	Polonium-210	1.42E+00		3.37E-01	1.09E-01	1.94E+01	1.94E+03
RP-13-SUB	Polonium-210	9.09E-01		2.54E-01	1.06E-01	1.94E+01	1.94E+03
RP-17-SUB	Polonium-210	1.09E+00		3.42E-01	1.68E-01	1.94E+01	1.94E+03
RP-18-SUB	Polonium-210	9.17E-01		2.79E-01	1.20E-01	1.94E+01	1.94E+03
RP-19-SUB	Polonium-210	8.72E-01		3.23E-01	2.17E-01	1.94E+01	1.94E+03
RP-20-SUB	Polonium-210	1.00E+00		3.06E-01	1.53E-01	1.94E+01	1.94E+03
RP-28-SUB	Polonium-210	7.87E-01		2.75E-01	1.91E-01	1.94E+01	1.94E+03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Polonium-210	1.18E+00		3.13E-01	1.18E-01	1.94E+01	1.94E+03
BP-2-SUR	Polonium-210	1.22E+00		4.52E-01	2.49E-01	1.94E+01	1.94E+03
BP-3-SUR	Polonium-210	1.61E+00		3.92E-01	1.36E-01	1.94E+01	1.94E+03
BP-4-SUR	Polonium-210	1.28E+00		3.16E-01	1.10E-01	1.94E+01	1.94E+03
BP-5-SUR	Polonium-210	1.20E+00		4.23E-01	3.20E-01	1.94E+01	1.94E+03
BP-6-SUR	Polonium-210	1.25E+00		3.26E-01	1.64E-01	1.94E+01	1.94E+03
BP-7-SUR	Polonium-210	9.67E+00		1.67E+00	1.62E-01	1.94E+01	1.94E+03
BP-8-SUR	Polonium-210	1.52E+00		4.85E-01	2.84E-01	1.94E+01	1.94E+03
BP-9-SUR	Polonium-210	1.26E+00		3.59E-01	1.50E-01	1.94E+01	1.94E+03
BP-10-SUR	Polonium-210	1.60E+00		3.37E-01	7.02E-02	1.94E+01	1.94E+03
BP-11-SUR	Polonium-210	1.38E+00		3.08E-01	9.02E-02	1.94E+01	1.94E+03
BP-12-SUR	Polonium-210	1.98E+00		4.31E-01	1.11E-01	1.94E+01	1.94E+03
BP-13-SUR	Polonium-210	1.12E+00		3.38E-01	1.90E-01	1.94E+01	1.94E+03
BP-14-SUR	Polonium-210	8.84E-01		2.58E-01	1.57E-01	1.94E+01	1.94E+03
BP-15-SUR	Polonium-210	1.26E+00		3.06E-01	1.10E-01	1.94E+01	1.94E+03
BP-16-SUR	Polonium-210	1.32E+00		4.19E-01	2.44E-01	1.94E+01	1.94E+03
BP-17-SUR	Polonium-210	1.12E+00		3.31E-01	1.46E-01	1.94E+01	1.94E+03
BP-18-SUR	Polonium-210	1.18E+00		3.70E-01	2.01E-01	1.94E+01	1.94E+03
BP-19-SUR	Polonium-210	1.44E+00		4.45E-01	2.07E-01	1.94E+01	1.94E+03
BP-20-SUR	Polonium-210	1.24E+00		3.48E-01	1.06E-01	1.94E+01	1.94E+03
BP-21-SUR	Polonium-210	1.36E+00		3.89E-01	1.85E-01	1.94E+01	1.94E+03
BP-22-SUR	Polonium-210	1.04E+00		3.98E-01	2.63E-01	1.94E+01	1.94E+03
BP-23-SUR	Polonium-210	1.41E+00		4.09E-01	2.40E-01	1.94E+01	1.94E+03
BP-24-SUR	Polonium-210	1.07E+00		3.29E-01	1.38E-01	1.94E+01	1.94E+03
BP-25-SUR	Polonium-210	1.43E+00		4.18E-01	1.69E-01	1.94E+01	1.94E+03
BP-26-SUR	Polonium-210	1.40E+00		4.89E-01	2.68E-01	1.94E+01	1.94E+03
BP-27-SUR	Polonium-210	1.25E+00		3.49E-01	1.62E-01	1.94E+01	1.94E+03
BP-28-SUR	Polonium-210	1.05E+00		4.27E-01	3.02E-01	1.94E+01	1.94E+03
BP-29-SUR	Polonium-210	1.43E+00		5.54E-01	3.84E-01	1.94E+01	1.94E+03
BP-30-SUR	Polonium-210	1.44E+00		4.60E-01	2.10E-01	1.94E+01	1.94E+03
BP-31-SUR	Polonium-210	1.29E+00		4.29E-01	2.22E-01	1.94E+01	1.94E+03
BP-32-SUR	Polonium-210	1.07E+00		3.04E-01	9.56E-02	1.94E+01	1.94E+03
BP-33-SUR	Polonium-210	1.36E+00		3.54E-01	1.44E-01	1.94E+01	1.94E+03
BP-34-SUR	Polonium-210	1.20E+00		4.28E-01	2.57E-01	1.94E+01	1.94E+03
BP-35-SUR	Polonium-210	1.05E+00		3.99E-01	2.22E-01	1.94E+01	1.94E+03
BP-36-SUR	Polonium-210	1.32E+00		3.92E-01	1.83E-01	1.94E+01	1.94E+03
BP-37-SUR	Polonium-210	1.39E+00		3.84E-01	1.42E-01	1.94E+01	1.94E+03
BP-38-SUR	Polonium-210	1.75E+00		5.76E-01	2.18E-01	1.94E+01	1.94E+03
BP-39-SUR	Polonium-210	1.45E+00		4.73E-01	2.04E-01	1.94E+01	1.94E+03
BP-40-SUR	Polonium-210	1.26E+00		4.62E-01	2.09E-01	1.94E+01	1.94E+03
BP-41-SUR	Polonium-210	1.13E+00		3.25E-01	1.29E-01	1.94E+01	1.94E+03
BP-42-SUR	Polonium-210	1.19E+00		4.59E-01	3.07E-01	1.94E+01	1.94E+03

Table 6.38 - Polonium-210 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Polonium-210	1.80E+00		6.06E-01	3.33E-01	1.94E+01	1.94E+03
BP-44-SUR	Polonium-210	1.15E+00		3.18E-01	1.28E-01	1.94E+01	1.94E+03
BP-45-SUR	Polonium-210	1.09E+00		3.98E-01	2.04E-01	1.94E+01	1.94E+03
BP-46-SUR	Polonium-210	1.26E+00		3.65E-01	1.80E-01	1.94E+01	1.94E+03
BP-47-SUR	Polonium-210	1.26E+00		3.56E-01	1.24E-01	1.94E+01	1.94E+03
BP-48-SUR	Polonium-210	1.66E+00		4.65E-01	1.73E-01	1.94E+01	1.94E+03
BP-49-SUR	Polonium-210	9.99E-01		4.21E-01	2.57E-01	1.94E+01	1.94E+03
BP-50-SUR	Polonium-210	1.11E+00		3.15E-01	9.82E-02	1.94E+01	1.94E+03
BP-51-SUR	Polonium-210	1.30E+00		4.49E-01	2.58E-01	1.94E+01	1.94E+03
BP-52-SUR	Polonium-210	1.26E+00		4.51E-01	2.71E-01	1.94E+01	1.94E+03
BP-53-SUR	Polonium-210	1.22E+00		3.35E-01	1.23E-01	1.94E+01	1.94E+03
BP-54-SUR	Polonium-210	1.19E+00		3.61E-01	1.25E-01	1.94E+01	1.94E+03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Polonium-210	1.22E+00		3.07E-01	9.03E-02	1.94E+01	1.94E+03
BP-4-SUB	Polonium-210	1.17E+00		3.44E-01	1.67E-01	1.94E+01	1.94E+03
BP-5-SUB	Polonium-210	1.10E+00		4.55E-01	2.73E-01	1.94E+01	1.94E+03
BP-9-SUB	Polonium-210	1.36E+00		4.90E-01	2.14E-01	1.94E+01	1.94E+03
BP-12-SUB	Polonium-210	1.24E+00		3.43E-01	1.18E-01	1.94E+01	1.94E+03
BP-13-SUB	Polonium-210	1.43E+00		3.77E-01	1.60E-01	1.94E+01	1.94E+03
BP-14-SUB	Polonium-210	1.03E+00		3.10E-01	1.21E-01	1.94E+01	1.94E+03
BP-16-SUB	Polonium-210	1.13E+00		2.98E-01	1.03E-01	1.94E+01	1.94E+03
BP-20-SUB	Polonium-210	8.47E-01		3.34E-01	1.90E-01	1.94E+01	1.94E+03
BP-23-SUB	Polonium-210	9.25E-01		3.10E-01	1.26E-01	1.94E+01	1.94E+03
BP-29-SUB	Polonium-210	1.55E+00		5.05E-01	2.35E-01	1.94E+01	1.94E+03
BP-34-SUB	Polonium-210	1.65E+00		4.95E-01	2.55E-01	1.94E+01	1.94E+03
BP-35-SUB	Polonium-210	1.35E+00		3.84E-01	1.20E-01	1.94E+01	1.94E+03
BP-38-SUB	Polonium-210	1.07E+00		4.35E-01	2.56E-01	1.94E+01	1.94E+03
BP-43-SUB	Polonium-210	1.14E+00		3.21E-01	1.38E-01	1.94E+01	1.94E+03
BP-45-SUB	Polonium-210	1.44E+00		3.76E-01	1.19E-01	1.94E+01	1.94E+03
BP-46-SUB	Polonium-210	1.19E+00		3.52E-01	1.17E-01	1.94E+01	1.94E+03
BP-48-SUB	Polonium-210	1.03E+00		3.70E-01	1.87E-01	1.94E+01	1.94E+03
BP-50-SUB	Polonium-210	1.17E+00		4.76E-01	3.01E-01	1.94E+01	1.94E+03
BP-51-SUB	Polonium-210	1.86E+00		5.63E-01	2.12E-01	1.94E+01	1.94E+03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.39 - Potassium-40 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Potassium-40	2.49E+01		2.70E+00	8.06E-02	4.45E-02	4.45E+00
LR-2-SUR	Potassium-40	2.51E+01		2.72E+00	8.33E-02	4.45E-02	4.45E+00
LR-3-SUR	Potassium-40	2.60E+01		2.82E+00	8.46E-02	4.45E-02	4.45E+00
LR-4-SUR	Potassium-40	2.58E+01		2.80E+00	7.81E-02	4.45E-02	4.45E+00
LR-5-SUR	Potassium-40	2.59E+01		2.81E+00	8.25E-02	4.45E-02	4.45E+00
LR-6-SUR	Potassium-40	2.61E+01		2.84E+00	8.66E-02	4.45E-02	4.45E+00
LR-7-SUR	Potassium-40	2.51E+01		2.73E+00	8.26E-02	4.45E-02	4.45E+00
LR-8-SUR	Potassium-40	2.53E+01		2.74E+00	7.98E-02	4.45E-02	4.45E+00
LR-9-SUR	Potassium-40	2.57E+01		2.79E+00	7.87E-02	4.45E-02	4.45E+00
LR-10-SUR	Potassium-40	2.50E+01		2.72E+00	8.07E-02	4.45E-02	4.45E+00
LR-11-SUR	Potassium-40	2.49E+01		2.71E+00	8.44E-02	4.45E-02	4.45E+00
LR-12-SUR	Potassium-40	2.49E+01		2.71E+00	8.05E-02	4.45E-02	4.45E+00
LR-13-SUR	Potassium-40	2.42E+01		2.63E+00	7.83E-02	4.45E-02	4.45E+00
LR-14-SUR	Potassium-40	2.49E+01		2.71E+00	7.79E-02	4.45E-02	4.45E+00
LR-15-SUR	Potassium-40	2.69E+01		2.92E+00	8.79E-02	4.45E-02	4.45E+00
LR-16-SUR	Potassium-40	2.58E+01		2.80E+00	8.01E-02	4.45E-02	4.45E+00
LR-17-SUR	Potassium-40	2.31E+01		2.51E+00	7.74E-02	4.45E-02	4.45E+00
LR-18-SUR	Potassium-40	2.48E+01		2.70E+00	8.24E-02	4.45E-02	4.45E+00
LR-19-SUR	Potassium-40	2.64E+01		2.86E+00	9.11E-02	4.45E-02	4.45E+00
LR-20-SUR	Potassium-40	2.60E+01		2.82E+00	8.92E-02	4.45E-02	4.45E+00
LR-21-SUR	Potassium-40	2.54E+01		2.76E+00	8.66E-02	4.45E-02	4.45E+00
LR-22-SUR	Potassium-40	2.54E+01		2.76E+00	8.90E-02	4.45E-02	4.45E+00
LR-23-SUR	Potassium-40	2.45E+01		2.66E+00	8.46E-02	4.45E-02	4.45E+00
LR-24-SUR	Potassium-40	2.42E+01		2.63E+00	8.66E-02	4.45E-02	4.45E+00
LR-25-SUR	Potassium-40	2.60E+01		2.82E+00	9.19E-02	4.45E-02	4.45E+00
LR-26-SUR	Potassium-40	2.59E+01		2.81E+00	9.55E-02	4.45E-02	4.45E+00
LR-27-SUR	Potassium-40	2.57E+01		2.79E+00	8.43E-02	4.45E-02	4.45E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Potassium-40	2.50E+01		2.72E+00	8.13E-02	4.45E-02	4.45E+00
LR-4-SUB	Potassium-40	2.40E+01		2.60E+00	7.87E-02	4.45E-02	4.45E+00
LR-9-SUB	Potassium-40	2.13E+01		2.31E+00	7.97E-02	4.45E-02	4.45E+00
LR-13-SUB	Potassium-40	2.34E+01		2.55E+00	8.33E-02	4.45E-02	4.45E+00
LR-15-SUB	Potassium-40	3.05E+01		3.31E+00	9.68E-02	4.45E-02	4.45E+00
LR-18-SUB	Potassium-40	2.44E+01		2.66E+00	8.34E-02	4.45E-02	4.45E+00
LR-19-SUB	Potassium-40	2.49E+01		2.70E+00	7.95E-02	4.45E-02	4.45E+00
LR-23-SUB	Potassium-40	2.40E+01		2.61E+00	8.33E-02	4.45E-02	4.45E+00
LR-24-SUB	Potassium-40	2.15E+01		2.33E+00	7.51E-02	4.45E-02	4.45E+00
LR-26-SUB	Potassium-40	2.17E+01		2.36E+00	7.61E-02	4.45E-02	4.45E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Potassium-40	2.39E+01		2.59E+00	6.55E-02	4.45E-02	4.45E+00
RP-2-SUR	Potassium-40	2.40E+01		2.61E+00	7.57E-02	4.45E-02	4.45E+00
RP-3-SUR	Potassium-40	2.19E+01		2.38E+00	6.75E-02	4.45E-02	4.45E+00
RP-4-SUR	Potassium-40	2.40E+01		2.60E+00	7.29E-02	4.45E-02	4.45E+00
RP-5-SUR	Potassium-40	2.39E+01		2.60E+00	7.06E-02	4.45E-02	4.45E+00
RP-6-SUR	Potassium-40	2.38E+01		2.58E+00	7.42E-02	4.45E-02	4.45E+00
RP-7-SUR	Potassium-40	2.22E+01		2.41E+00	7.33E-02	4.45E-02	4.45E+00
RP-8-SUR	Potassium-40	2.27E+01		2.46E+00	7.14E-02	4.45E-02	4.45E+00
RP-9-SUR	Potassium-40	2.13E+01		2.15E+00	7.32E-02	4.45E-02	4.45E+00
RP-10-SUR	Potassium-40	2.27E+01		2.47E+00	7.35E-02	4.45E-02	4.45E+00
RP-11-SUR	Potassium-40	2.18E+01		2.37E+00	6.31E-02	4.45E-02	4.45E+00
RP-12-SUR	Potassium-40	2.30E+01		2.50E+00	6.99E-02	4.45E-02	4.45E+00
RP-13-SUR	Potassium-40	2.35E+01		2.55E+00	6.92E-02	4.45E-02	4.45E+00
RP-14-SUR	Potassium-40	2.27E+01		2.46E+00	6.85E-02	4.45E-02	4.45E+00
RP-15-SUR	Potassium-40	2.31E+01		2.51E+00	6.94E-02	4.45E-02	4.45E+00
RP-16-SUR	Potassium-40	2.24E+01		2.43E+00	6.47E-02	4.45E-02	4.45E+00
RP-17-SUR	Potassium-40	2.24E+01		2.43E+00	6.65E-02	4.45E-02	4.45E+00
RP-18-SUR	Potassium-40	2.23E+01		2.42E+00	6.56E-02	4.45E-02	4.45E+00
RP-19-SUR	Potassium-40	2.23E+01		2.42E+00	7.15E-02	4.45E-02	4.45E+00
RP-20-SUR	Potassium-40	2.22E+01		2.41E+00	7.28E-02	4.45E-02	4.45E+00
RP-21-SUR	Potassium-40	2.39E+01		2.60E+00	6.88E-02	4.45E-02	4.45E+00

Table 6.39 - Potassium-40 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Potassium-40	2.40E+01		2.60E+00	7.17E-02	4.45E-02	4.45E+00
RP-23-SUR	Potassium-40	2.39E+01		2.59E+00	6.76E-02	4.45E-02	4.45E+00
RP-24-SUR	Potassium-40	2.33E+01		2.53E+00	6.83E-02	4.45E-02	4.45E+00
RP-25-SUR	Potassium-40	2.35E+01		2.55E+00	7.06E-02	4.45E-02	4.45E+00
RP-26-SUR	Potassium-40	2.34E+01		2.54E+00	7.10E-02	4.45E-02	4.45E+00
RP-27-SUR	Potassium-40	2.31E+01		2.51E+00	7.01E-02	4.45E-02	4.45E+00
RP-28-SUR	Potassium-40	2.27E+01		2.47E+00	7.15E-02	4.45E-02	4.45E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Potassium-40	2.33E+01		2.53E+00	6.92E-02	4.45E-02	4.45E+00
RP-5-SUB	Potassium-40	2.31E+01		2.50E+00	7.15E-02	4.45E-02	4.45E+00
RP-7-SUB	Potassium-40	2.29E+01		2.49E+00	6.96E-02	4.45E-02	4.45E+00
RP-12-SUB	Potassium-40	2.20E+01		2.39E+00	6.72E-02	4.45E-02	4.45E+00
RP-13-SUB	Potassium-40	2.16E+01		2.34E+00	7.06E-02	4.45E-02	4.45E+00
RP-17-SUB	Potassium-40	2.29E+01		2.48E+00	7.12E-02	4.45E-02	4.45E+00
RP-18-SUB	Potassium-40	2.31E+01		2.50E+00	7.45E-02	4.45E-02	4.45E+00
RP-19-SUB	Potassium-40	2.27E+01		2.47E+00	7.23E-02	4.45E-02	4.45E+00
RP-20-SUB	Potassium-40	2.29E+01		2.49E+00	6.68E-02	4.45E-02	4.45E+00
RP-28-SUB	Potassium-40	2.31E+01		2.51E+00	7.14E-02	4.45E-02	4.45E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Potassium-40	2.08E+01		2.26E+00	8.17E-02	4.45E-02	4.45E+00
BP-2-SUR	Potassium-40	2.11E+01		2.29E+00	8.19E-02	4.45E-02	4.45E+00
BP-3-SUR	Potassium-40	2.06E+01		2.24E+00	7.86E-02	4.45E-02	4.45E+00
BP-4-SUR	Potassium-40	2.07E+01		2.25E+00	8.64E-02	4.45E-02	4.45E+00
BP-5-SUR	Potassium-40	2.05E+01		2.23E+00	7.74E-02	4.45E-02	4.45E+00
BP-6-SUR	Potassium-40	2.00E+01		2.18E+00	8.25E-02	4.45E-02	4.45E+00
BP-7-SUR	Potassium-40	2.02E+01		2.20E+00	7.99E-02	4.45E-02	4.45E+00
BP-8-SUR	Potassium-40	2.01E+01		2.19E+00	7.91E-02	4.45E-02	4.45E+00
BP-9-SUR	Potassium-40	2.04E+01		2.21E+00	7.93E-02	4.45E-02	4.45E+00
BP-10-SUR	Potassium-40	2.00E+01		2.17E+00	7.75E-02	4.45E-02	4.45E+00
BP-11-SUR	Potassium-40	1.99E+01		2.16E+00	7.98E-02	4.45E-02	4.45E+00
BP-12-SUR	Potassium-40	2.01E+01		2.19E+00	8.53E-02	4.45E-02	4.45E+00
BP-13-SUR	Potassium-40	2.02E+01		2.05E+00	1.11E-01	4.45E-02	4.45E+00
BP-14-SUR	Potassium-40	2.05E+01		2.23E+00	7.98E-02	4.45E-02	4.45E+00
BP-15-SUR	Potassium-40	2.04E+01		2.21E+00	8.20E-02	4.45E-02	4.45E+00
BP-16-SUR	Potassium-40	2.00E+01		2.17E+00	8.28E-02	4.45E-02	4.45E+00
BP-17-SUR	Potassium-40	2.02E+01		2.20E+00	7.81E-02	4.45E-02	4.45E+00
BP-18-SUR	Potassium-40	2.03E+01		2.20E+00	8.31E-02	4.45E-02	4.45E+00
BP-19-SUR	Potassium-40	2.01E+01		2.04E+00	9.85E-02	4.45E-02	4.45E+00
BP-20-SUR	Potassium-40	2.03E+01		2.21E+00	8.33E-02	4.45E-02	4.45E+00
BP-21-SUR	Potassium-40	2.01E+01		2.19E+00	8.42E-02	4.45E-02	4.45E+00
BP-22-SUR	Potassium-40	2.04E+01		2.07E+00	9.28E-02	4.45E-02	4.45E+00
BP-23-SUR	Potassium-40	2.02E+01		2.05E+00	9.89E-02	4.45E-02	4.45E+00
BP-24-SUR	Potassium-40	2.01E+01		2.04E+00	1.01E-01	4.45E-02	4.45E+00
BP-25-SUR	Potassium-40	1.99E+01		2.02E+00	1.04E-01	4.45E-02	4.45E+00
BP-26-SUR	Potassium-40	2.03E+01		2.06E+00	9.58E-02	4.45E-02	4.45E+00
BP-27-SUR	Potassium-40	2.02E+01		2.05E+00	9.78E-02	4.45E-02	4.45E+00
BP-28-SUR	Potassium-40	1.96E+01		1.99E+00	9.27E-02	4.45E-02	4.45E+00
BP-29-SUR	Potassium-40	1.88E+01		1.91E+00	9.14E-02	4.45E-02	4.45E+00
BP-30-SUR	Potassium-40	1.89E+01		2.06E+00	7.45E-02	4.45E-02	4.45E+00
BP-31-SUR	Potassium-40	1.87E+01		1.90E+00	9.67E-02	4.45E-02	4.45E+00
BP-32-SUR	Potassium-40	2.01E+01		2.04E+00	9.45E-02	4.45E-02	4.45E+00
BP-33-SUR	Potassium-40	2.05E+01		2.23E+00	7.76E-02	4.45E-02	4.45E+00
BP-34-SUR	Potassium-40	1.98E+01		2.01E+00	1.00E-01	4.45E-02	4.45E+00
BP-35-SUR	Potassium-40	2.02E+01		2.20E+00	7.66E-02	4.45E-02	4.45E+00
BP-36-SUR	Potassium-40	1.96E+01		2.13E+00	7.84E-02	4.45E-02	4.45E+00
BP-37-SUR	Potassium-40	1.91E+01		2.08E+00	7.75E-02	4.45E-02	4.45E+00
BP-38-SUR	Potassium-40	1.98E+01		2.16E+00	7.81E-02	4.45E-02	4.45E+00
BP-39-SUR	Potassium-40	1.91E+01		2.08E+00	8.24E-02	4.45E-02	4.45E+00
BP-40-SUR	Potassium-40	2.00E+01		2.18E+00	7.39E-02	4.45E-02	4.45E+00
BP-41-SUR	Potassium-40	1.97E+01		1.99E+00	9.10E-02	4.45E-02	4.45E+00
BP-42-SUR	Potassium-40	1.91E+01		2.07E+00	7.25E-02	4.45E-02	4.45E+00

Table 6.39 - Potassium-40 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Potassium-40	1.79E+01		1.82E+00	9.32E-02	4.45E-02	4.45E+00
BP-44-SUR	Potassium-40	1.84E+01		2.00E+00	7.34E-02	4.45E-02	4.45E+00
BP-45-SUR	Potassium-40	1.84E+01		1.87E+00	9.45E-02	4.45E-02	4.45E+00
BP-46-SUR	Potassium-40	1.88E+01		2.05E+00	6.92E-02	4.45E-02	4.45E+00
BP-47-SUR	Potassium-40	2.00E+01		2.03E+00	7.94E-02	4.45E-02	4.45E+00
BP-48-SUR	Potassium-40	1.99E+01		2.17E+00	8.04E-02	4.45E-02	4.45E+00
BP-49-SUR	Potassium-40	1.89E+01		1.91E+00	8.39E-02	4.45E-02	4.45E+00
BP-50-SUR	Potassium-40	1.90E+01		2.07E+00	7.90E-02	4.45E-02	4.45E+00
BP-51-SUR	Potassium-40	1.93E+01		1.95E+00	8.06E-02	4.45E-02	4.45E+00
BP-52-SUR	Potassium-40	1.97E+01		2.00E+00	7.78E-02	4.45E-02	4.45E+00
BP-53-SUR	Potassium-40	2.06E+01		2.25E+00	7.80E-02	4.45E-02	4.45E+00
BP-54-SUR	Potassium-40	1.92E+01		1.94E+00	7.32E-02	4.45E-02	4.45E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Potassium-40	1.82E+01		1.84E+00	7.66E-02	4.45E-02	4.45E+00
BP-4-SUB	Potassium-40	1.85E+01		2.01E+00	7.11E-02	4.45E-02	4.45E+00
BP-5-SUB	Potassium-40	1.84E+01		2.00E+00	7.43E-02	4.45E-02	4.45E+00
BP-9-SUB	Potassium-40	1.70E+01		1.72E+00	7.06E-02	4.45E-02	4.45E+00
BP-12-SUB	Potassium-40	1.80E+01		1.95E+00	7.40E-02	4.45E-02	4.45E+00
BP-13-SUB	Potassium-40	1.72E+01		1.75E+00	8.91E-02	4.45E-02	4.45E+00
BP-14-SUB	Potassium-40	2.02E+01		2.20E+00	7.87E-02	4.45E-02	4.45E+00
BP-16-SUB	Potassium-40	1.72E+01		1.75E+00	7.10E-02	4.45E-02	4.45E+00
BP-20-SUB	Potassium-40	1.83E+01		2.00E+00	7.30E-02	4.45E-02	4.45E+00
BP-23-SUB	Potassium-40	1.76E+01		1.78E+00	7.09E-02	4.45E-02	4.45E+00
BP-29-SUB	Potassium-40	1.64E+01		3.28E+00	2.16E+00	4.45E-02	4.45E+00
BP-34-SUB	Potassium-40	1.77E+01		1.93E+00	7.42E-02	4.45E-02	4.45E+00
BP-35-SUB	Potassium-40	1.75E+01		1.77E+00	7.53E-02	4.45E-02	4.45E+00
BP-38-SUB	Potassium-40	2.15E+01		2.34E+00	8.11E-02	4.45E-02	4.45E+00
BP-43-SUB	Potassium-40	1.83E+01		1.86E+00	1.05E-01	4.45E-02	4.45E+00
BP-45-SUB	Potassium-40	1.85E+01		2.01E+00	7.45E-02	4.45E-02	4.45E+00
BP-46-SUB	Potassium-40	1.88E+01		1.91E+00	1.06E-01	4.45E-02	4.45E+00
BP-48-SUB	Potassium-40	1.75E+01		1.90E+00	7.96E-02	4.45E-02	4.45E+00
BP-50-SUB	Potassium-40	1.75E+01		1.78E+00	8.72E-02	4.45E-02	4.45E+00
BP-51-SUB	Potassium-40	1.78E+01		1.94E+00	7.23E-02	4.45E-02	4.45E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.40 - Promethium-147 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Promethium-147	2.97E-01	U	3.10E+00	5.62E+00	6.69E+02	6.69E+04
LR-2-SUR	Promethium-147	-7.65E-01	U	3.41E+00	6.29E+00	6.69E+02	6.69E+04
LR-3-SUR	Promethium-147	-2.00E+00	U	2.90E+00	5.42E+00	6.69E+02	6.69E+04
LR-4-SUR	Promethium-147	-6.21E-01	U	3.11E+00	5.72E+00	6.69E+02	6.69E+04
LR-5-SUR	Promethium-147	-1.96E+00	U	3.05E+00	5.71E+00	6.69E+02	6.69E+04
LR-6-SUR	Promethium-147	-2.05E+00	U	2.81E+00	5.26E+00	6.69E+02	6.69E+04
LR-7-SUR	Promethium-147	-5.56E-01	U	3.42E+00	6.29E+00	6.69E+02	6.69E+04
LR-8-SUR	Promethium-147	-5.52E-01	U	2.78E+00	5.10E+00	6.69E+02	6.69E+04
LR-9-SUR	Promethium-147	4.77E-02	U	3.38E+00	6.17E+00	6.69E+02	6.69E+04
LR-10-SUR	Promethium-147	-3.65E+00	UL	3.07E+00	5.84E+00	6.69E+02	6.69E+04
LR-11-SUR	Promethium-147	-5.82E-01	U	3.15E+00	5.79E+00	6.69E+02	6.69E+04
LR-12-SUR	Promethium-147	7.28E-01	UJ	2.93E+00	5.27E+00	6.69E+02	6.69E+04
LR-13-SUR	Promethium-147	1.60E+00	UJ	3.27E+00	5.82E+00	6.69E+02	6.69E+04
LR-14-SUR	Promethium-147	-1.03E+00	U	2.95E+00	5.45E+00	6.69E+02	6.69E+04
LR-15-SUR	Promethium-147	-1.05E+00	U	3.45E+00	6.39E+00	6.69E+02	6.69E+04
LR-16-SUR	Promethium-147	6.93E-02	U	3.26E+00	5.93E+00	6.69E+02	6.69E+04
LR-17-SUR	Promethium-147	-5.85E-01	U	3.13E+00	5.74E+00	6.69E+02	6.69E+04
LR-18-SUR	Promethium-147	-2.18E+00	U	2.98E+00	5.58E+00	6.69E+02	6.69E+04
LR-19-SUR	Promethium-147	-1.36E-01	U	3.69E+00	6.79E+00	6.69E+02	6.69E+04
LR-20-SUR	Promethium-147	8.19E-01	U	3.51E+00	6.35E+00	6.69E+02	6.69E+04
LR-21-SUR	Promethium-147	3.40E-01	U	3.02E+00	5.48E+00	6.69E+02	6.69E+04
LR-22-SUR	Promethium-147	1.55E-01	U	3.09E+00	5.64E+00	6.69E+02	6.69E+04
LR-23-SUR	Promethium-147	9.60E-01	U	3.24E+00	5.85E+00	6.69E+02	6.69E+04
LR-24-SUR	Promethium-147	6.84E-01	U	3.56E+00	6.47E+00	6.69E+02	6.69E+04
LR-25-SUR	Promethium-147	-1.22E-01	U	3.24E+00	5.94E+00	6.69E+02	6.69E+04
LR-26-SUR	Promethium-147	1.38E+00	U	3.28E+00	5.87E+00	6.69E+02	6.69E+04
LR-27-SUR	Promethium-147	2.27E+00	U	2.99E+00	5.24E+00	6.69E+02	6.69E+04
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Promethium-147	-1.23E+00	U	3.76E+00	7.01E+00	6.69E+02	6.69E+04
LR-4-SUB	Promethium-147	2.28E+00	U	3.34E+00	5.89E+00	6.69E+02	6.69E+04
LR-9-SUB	Promethium-147	6.95E-01	U	3.62E+00	6.57E+00	6.69E+02	6.69E+04
LR-13-SUB	Promethium-147	-1.54E+00	U	3.45E+00	6.46E+00	6.69E+02	6.69E+04
LR-15-SUB	Promethium-147	-2.01E-01	U	3.34E+00	6.14E+00	6.69E+02	6.69E+04
LR-18-SUB	Promethium-147	-2.07E+00	UJ	3.04E+00	5.73E+00	6.69E+02	6.69E+04
LR-19-SUB	Promethium-147	-1.15E-02	U	3.41E+00	6.25E+00	6.69E+02	6.69E+04
LR-23-SUB	Promethium-147	4.00E-01	U	2.89E+00	5.25E+00	6.69E+02	6.69E+04
LR-24-SUB	Promethium-147	1.95E+00	U	2.92E+00	5.16E+00	6.69E+02	6.69E+04
LR-26-SUB	Promethium-147	-4.67E-01	U	2.87E+00	5.30E+00	6.69E+02	6.69E+04
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Promethium-147	-7.62E-01	U	2.66E+00	4.92E+00	6.69E+02	6.69E+04
RP-2-SUR	Promethium-147	-2.35E+00	U	2.75E+00	5.21E+00	6.69E+02	6.69E+04
RP-3-SUR	Promethium-147	-8.94E-01	U	2.40E+00	4.45E+00	6.69E+02	6.69E+04
RP-4-SUR	Promethium-147	2.32E+00	U	3.90E+00	6.93E+00	6.69E+02	6.69E+04
RP-5-SUR	Promethium-147	-1.53E+00	U	3.35E+00	6.26E+00	6.69E+02	6.69E+04
RP-6-SUR	Promethium-147	1.71E+00	U	3.41E+00	6.09E+00	6.69E+02	6.69E+04
RP-7-SUR	Promethium-147	-1.29E+00	U	2.98E+00	5.56E+00	6.69E+02	6.69E+04
RP-8-SUR	Promethium-147	-8.83E-01	U	2.74E+00	5.07E+00	6.69E+02	6.69E+04
RP-9-SUR	Promethium-147	1.05E+00	U	2.63E+00	4.70E+00	6.69E+02	6.69E+04
RP-10-SUR	Promethium-147	1.02E+00	U	2.82E+00	5.06E+00	6.69E+02	6.69E+04
RP-11-SUR	Promethium-147	5.84E-01	U	2.90E+00	5.25E+00	6.69E+02	6.69E+04
RP-12-SUR	Promethium-147	-2.06E-01	U	2.60E+00	4.77E+00	6.69E+02	6.69E+04
RP-13-SUR	Promethium-147	-1.04E-01	U	3.09E+00	5.66E+00	6.69E+02	6.69E+04
RP-14-SUR	Promethium-147	-1.58E+00	U	2.85E+00	5.34E+00	6.69E+02	6.69E+04
RP-15-SUR	Promethium-147	1.02E+00	U	2.82E+00	5.06E+00	6.69E+02	6.69E+04
RP-16-SUR	Promethium-147	-1.16E-01	U	2.83E+00	5.17E+00	6.69E+02	6.69E+04
RP-17-SUR	Promethium-147	5.72E-01	U	2.76E+00	4.99E+00	6.69E+02	6.69E+04
RP-18-SUR	Promethium-147	-8.18E-01	U	2.76E+00	5.11E+00	6.69E+02	6.69E+04
RP-19-SUR	Promethium-147	-1.05E-01	UJ	3.10E+00	5.65E+00	6.69E+02	6.69E+04
RP-20-SUR	Promethium-147	6.35E+00	J	4.10E+00	6.80E+00	6.69E+02	6.69E+04
RP-21-SUR	Promethium-147	2.85E+00	UJ	4.30E+00	7.59E+00	6.69E+02	6.69E+04

Table 6.40 - Promethium-147 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Promethium-147	4.49E+00	J	3.87E+00	6.61E+00	6.69E+02	6.69E+04
RP-23-SUR	Promethium-147	2.90E+00	UJ	3.67E+00	6.42E+00	6.69E+02	6.69E+04
RP-24-SUR	Promethium-147	2.79E+00	UJ	3.70E+00	6.48E+00	6.69E+02	6.69E+04
RP-25-SUR	Promethium-147	4.66E+00	J	2.86E+00	4.71E+00	6.69E+02	6.69E+04
RP-26-SUR	Promethium-147	4.15E+00	J	3.97E+00	6.82E+00	6.69E+02	6.69E+04
RP-27-SUR	Promethium-147	-4.07E-01	UJ	3.53E+00	6.49E+00	6.69E+02	6.69E+04
RP-28-SUR	Promethium-147	4.69E+00	J	4.08E+00	6.98E+00	6.69E+02	6.69E+04
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Promethium-147	1.78E+00	UJ	2.23E+00	3.87E+00	6.69E+02	6.69E+04
RP-5-SUB	Promethium-147	-1.74E+00	UJ	2.78E+00	5.18E+00	6.69E+02	6.69E+04
RP-7-SUB	Promethium-147	3.28E+00	UJ	4.68E+00	8.26E+00	6.69E+02	6.69E+04
RP-12-SUB	Promethium-147	2.15E+00	UJ	3.85E+00	6.83E+00	6.69E+02	6.69E+04
RP-13-SUB	Promethium-147	1.52E-01	UJ	3.91E+00	7.15E+00	6.69E+02	6.69E+04
RP-17-SUB	Promethium-147	3.33E-01	U	2.53E+00	4.59E+00	6.69E+02	6.69E+04
RP-18-SUB	Promethium-147	2.26E+00	U	2.75E+00	4.80E+00	6.69E+02	6.69E+04
RP-19-SUB	Promethium-147	4.25E-01	U	3.00E+00	5.45E+00	6.69E+02	6.69E+04
RP-20-SUB	Promethium-147	1.97E+00	U	2.72E+00	4.78E+00	6.69E+02	6.69E+04
RP-28-SUB	Promethium-147	2.09E+00	UJ	2.81E+00	4.93E+00	6.69E+02	6.69E+04
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Promethium-147	8.99E-01	UJ	3.95E+00	7.16E+00	6.69E+02	6.69E+04
BP-2-SUR	Promethium-147	4.92E+00	J	4.72E+00	8.14E+00	6.69E+02	6.69E+04
BP-3-SUR	Promethium-147	4.11E-01	UJ	4.19E+00	7.66E+00	6.69E+02	6.69E+04
BP-4-SUR	Promethium-147	2.42E+00	UJ	3.10E+00	5.42E+00	6.69E+02	6.69E+04
BP-5-SUR	Promethium-147	3.89E+00	J	3.36E+00	5.74E+00	6.69E+02	6.69E+04
BP-6-SUR	Promethium-147	2.74E+00	UJ	4.35E+00	7.71E+00	6.69E+02	6.69E+04
BP-7-SUR	Promethium-147	5.34E+00	J	4.43E+00	7.56E+00	6.69E+02	6.69E+04
BP-8-SUR	Promethium-147	2.99E+00	U	3.96E+00	6.96E+00	6.69E+02	6.69E+04
BP-9-SUR	Promethium-147	2.40E+00	UJ	3.95E+00	7.01E+00	6.69E+02	6.69E+04
BP-10-SUR	Promethium-147	2.50E+00	UJ	4.31E+00	7.66E+00	6.69E+02	6.69E+04
BP-11-SUR	Promethium-147	1.94E+00	UJ	4.23E+00	7.57E+00	6.69E+02	6.69E+04
BP-12-SUR	Promethium-147	9.91E-01	UJ	3.95E+00	7.15E+00	6.69E+02	6.69E+04
BP-13-SUR	Promethium-147	1.65E+00	UJ	3.95E+00	7.09E+00	6.69E+02	6.69E+04
BP-14-SUR	Promethium-147	4.17E+00	J	3.98E+00	6.86E+00	6.69E+02	6.69E+04
BP-15-SUR	Promethium-147	-1.31E-01	U	3.78E+00	6.95E+00	6.69E+02	6.69E+04
BP-16-SUR	Promethium-147	2.10E+00	UJ	3.85E+00	6.86E+00	6.69E+02	6.69E+04
BP-17-SUR	Promethium-147	2.10E+00	UJ	3.89E+00	6.92E+00	6.69E+02	6.69E+04
BP-18-SUR	Promethium-147	-1.18E+00	UJ	3.80E+00	7.08E+00	6.69E+02	6.69E+04
BP-19-SUR	Promethium-147	1.83E+00	U	2.77E+00	4.88E+00	6.69E+02	6.69E+04
BP-20-SUR	Promethium-147	1.70E+00	U	3.00E+00	5.34E+00	6.69E+02	6.69E+04
BP-21-SUR	Promethium-147	1.50E+00	U	3.17E+00	5.68E+00	6.69E+02	6.69E+04
BP-22-SUR	Promethium-147	1.27E+00	U	2.93E+00	5.25E+00	6.69E+02	6.69E+04
BP-23-SUR	Promethium-147	6.21E-01	U	2.64E+00	4.76E+00	6.69E+02	6.69E+04
BP-24-SUR	Promethium-147	1.99E+00	U	3.00E+00	5.31E+00	6.69E+02	6.69E+04
BP-25-SUR	Promethium-147	2.63E+00	U	3.31E+00	5.81E+00	6.69E+02	6.69E+04
BP-26-SUR	Promethium-147	2.03E+00	U	2.97E+00	5.24E+00	6.69E+02	6.69E+04
BP-27-SUR	Promethium-147	4.99E-01	U	3.13E+00	5.71E+00	6.69E+02	6.69E+04
BP-28-SUR	Promethium-147	1.10E+00	U	2.74E+00	4.91E+00	6.69E+02	6.69E+04
BP-29-SUR	Promethium-147	3.03E+00	UJ	3.42E+00	5.97E+00	6.69E+02	6.69E+04
BP-30-SUR	Promethium-147	-2.39E+00	UL	2.15E+00	4.08E+00	6.69E+02	6.69E+04
BP-31-SUR	Promethium-147	-1.19E+00	U	2.42E+00	4.52E+00	6.69E+02	6.69E+04
BP-32-SUR	Promethium-147	2.45E+00	UJ	3.45E+00	6.09E+00	6.69E+02	6.69E+04
BP-33-SUR	Promethium-147	3.00E+00	U	3.58E+00	6.27E+00	6.69E+02	6.69E+04
BP-34-SUR	Promethium-147	1.64E+00	U	3.20E+00	5.70E+00	6.69E+02	6.69E+04
BP-35-SUR	Promethium-147	-3.42E+00	UL	2.73E+00	5.16E+00	6.69E+02	6.69E+04
BP-36-SUR	Promethium-147	-2.57E+00	JUL	3.01E+00	5.65E+00	6.69E+02	6.69E+04
BP-37-SUR	Promethium-147	-1.65E+00	UL	2.74E+00	5.10E+00	6.69E+02	6.69E+04
BP-38-SUR	Promethium-147	-2.56E+00	UL	2.66E+00	5.00E+00	6.69E+02	6.69E+04
BP-39-SUR	Promethium-147	-2.02E+00	UL	2.47E+00	4.61E+00	6.69E+02	6.69E+04
BP-40-SUR	Promethium-147	-1.85E+00	UL	3.23E+00	6.03E+00	6.69E+02	6.69E+04
BP-41-SUR	Promethium-147	-1.99E+00	UL	3.12E+00	5.82E+00	6.69E+02	6.69E+04
BP-42-SUR	Promethium-147	-1.61E+00	UL	2.74E+00	5.09E+00	6.69E+02	6.69E+04

Table 6.40 - Promethium-147 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Promethium-147	-1.57E+00	UL	2.73E+00	5.08E+00	6.69E+02	6.69E+04
BP-44-SUR	Promethium-147	3.40E-01	UL	2.73E+00	4.94E+00	6.69E+02	6.69E+04
BP-45-SUR	Promethium-147	-7.12E-01	UL	2.94E+00	5.40E+00	6.69E+02	6.69E+04
BP-46-SUR	Promethium-147	-3.69E+00	UL	3.36E+00	6.38E+00	6.69E+02	6.69E+04
BP-47-SUR	Promethium-147	-6.25E-01	UL	3.25E+00	5.98E+00	6.69E+02	6.69E+04
BP-48-SUR	Promethium-147	-1.36E+00	UL	2.72E+00	5.04E+00	6.69E+02	6.69E+04
BP-49-SUR	Promethium-147	7.30E-01	UL	3.30E+00	5.95E+00	6.69E+02	6.69E+04
BP-50-SUR	Promethium-147	5.82E-02	UL	3.01E+00	5.48E+00	6.69E+02	6.69E+04
BP-51-SUR	Promethium-147	-2.40E+00	UL	3.01E+00	5.64E+00	6.69E+02	6.69E+04
BP-52-SUR	Promethium-147	-1.12E+00	UL	2.60E+00	4.80E+00	6.69E+02	6.69E+04
BP-53-SUR	Promethium-147	-1.72E-02	UL	3.38E+00	6.16E+00	6.69E+02	6.69E+04
BP-54-SUR	Promethium-147	-2.56E+00	UL	2.84E+00	5.34E+00	6.69E+02	6.69E+04
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Promethium-147	-1.53E+00	U	3.82E+00	7.11E+00	6.69E+02	6.69E+04
BP-4-SUB	Promethium-147	-1.08E+00	U	4.06E+00	7.52E+00	6.69E+02	6.69E+04
BP-5-SUB	Promethium-147	-4.06E+00	UL	3.40E+00	6.48E+00	6.69E+02	6.69E+04
BP-9-SUB	Promethium-147	-5.36E-01	U	3.88E+00	7.15E+00	6.69E+02	6.69E+04
BP-12-SUB	Promethium-147	-1.28E+00	U	3.78E+00	7.03E+00	6.69E+02	6.69E+04
BP-13-SUB	Promethium-147	-3.91E+00	U	3.85E+00	7.34E+00	6.69E+02	6.69E+04
BP-14-SUB	Promethium-147	-1.88E+00	U	3.38E+00	6.31E+00	6.69E+02	6.69E+04
BP-16-SUB	Promethium-147	5.88E-01	U	3.63E+00	6.57E+00	6.69E+02	6.69E+04
BP-20-SUB	Promethium-147	-3.25E+00	U	3.62E+00	6.86E+00	6.69E+02	6.69E+04
BP-23-SUB	Promethium-147	-6.93E-01	U	3.63E+00	6.69E+00	6.69E+02	6.69E+04
BP-29-SUB	Promethium-147	-1.91E+00	U	3.56E+00	6.65E+00	6.69E+02	6.69E+04
BP-34-SUB	Promethium-147	-2.33E+00	U	3.68E+00	6.91E+00	6.69E+02	6.69E+04
BP-35-SUB	Promethium-147	-2.96E+00	U	3.55E+00	6.70E+00	6.69E+02	6.69E+04
BP-38-SUB	Promethium-147	-4.21E+00	UL	3.65E+00	6.97E+00	6.69E+02	6.69E+04
BP-43-SUB	Promethium-147	-5.13E-01	U	2.31E+00	4.27E+00	6.69E+02	6.69E+04
BP-45-SUB	Promethium-147	-9.69E-01	U	2.81E+00	5.24E+00	6.69E+02	6.69E+04
BP-46-SUB	Promethium-147	2.95E+00	J	2.79E+00	4.80E+00	6.69E+02	6.69E+04
BP-48-SUB	Promethium-147	1.05E+00	U	2.71E+00	4.87E+00	6.69E+02	6.69E+04
BP-50-SUB	Promethium-147	1.61E-01	U	2.50E+00	4.56E+00	6.69E+02	6.69E+04
BP-51-SUB	Promethium-147	9.45E-01	U	2.61E+00	4.70E+00	6.69E+02	6.69E+04

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.41 - Protactinium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Protactinium-231	-1.27E-01	U	2.97E-01	4.90E-01	2.10E-01	2.10E+01
LR-2-SUR	Protactinium-231	-3.54E-02	U	2.93E-01	4.83E-01	2.10E-01	2.10E+01
LR-3-SUR	Protactinium-231	6.80E-02	U	2.96E-01	4.89E-01	2.10E-01	2.10E+01
LR-4-SUR	Protactinium-231	4.64E-03	U	2.90E-01	4.81E-01	2.10E-01	2.10E+01
LR-5-SUR	Protactinium-231	-1.22E-01	U	3.01E-01	4.96E-01	2.10E-01	2.10E+01
LR-6-SUR	Protactinium-231	-8.80E-02	U	3.05E-01	5.03E-01	2.10E-01	2.10E+01
LR-7-SUR	Protactinium-231	8.80E-03	U	2.65E-01	4.40E-01	2.10E-01	2.10E+01
LR-8-SUR	Protactinium-231	-5.18E-02	U	2.57E-01	4.25E-01	2.10E-01	2.10E+01
LR-9-SUR	Protactinium-231	-8.61E-02	U	3.00E-01	4.95E-01	2.10E-01	2.10E+01
LR-10-SUR	Protactinium-231	-1.31E-01	U	3.64E-01	4.91E-01	2.10E-01	2.10E+01
LR-11-SUR	Protactinium-231	-2.16E-01	U	3.35E-01	4.88E-01	2.10E-01	2.10E+01
LR-12-SUR	Protactinium-231	-1.18E-02	U	2.93E-01	4.85E-01	2.10E-01	2.10E+01
LR-13-SUR	Protactinium-231	9.49E-04	U	2.27E-01	3.77E-01	2.10E-01	2.10E+01
LR-14-SUR	Protactinium-231	-1.63E-01	U	2.69E-01	4.43E-01	2.10E-01	2.10E+01
LR-15-SUR	Protactinium-231	-1.57E-01	U	3.07E-01	5.07E-01	2.10E-01	2.10E+01
LR-16-SUR	Protactinium-231	-1.81E-01	U	2.85E-01	4.69E-01	2.10E-01	2.10E+01
LR-17-SUR	Protactinium-231	2.50E-01		2.21E-01	3.61E-01	2.10E-01	2.10E+01
LR-18-SUR	Protactinium-231	1.49E-01	U	2.87E-01	4.73E-01	2.10E-01	2.10E+01
LR-19-SUR	Protactinium-231	-4.52E-02	U	2.98E-01	4.93E-01	2.10E-01	2.10E+01
LR-20-SUR	Protactinium-231	-8.53E-04	U	2.97E-01	4.93E-01	2.10E-01	2.10E+01
LR-21-SUR	Protactinium-231	-1.13E-01	U	3.08E-01	5.09E-01	2.10E-01	2.10E+01
LR-22-SUR	Protactinium-231	-2.02E-03	U	3.08E-01	5.11E-01	2.10E-01	2.10E+01
LR-23-SUR	Protactinium-231	1.23E-01	U	1.58E-01	4.85E-01	2.10E-01	2.10E+01
LR-24-SUR	Protactinium-231	-3.94E-03	U	2.87E-01	4.76E-01	2.10E-01	2.10E+01
LR-25-SUR	Protactinium-231	-6.26E-02	U	3.00E-01	4.97E-01	2.10E-01	2.10E+01
LR-26-SUR	Protactinium-231	-5.68E-02	U	2.96E-01	4.89E-01	2.10E-01	2.10E+01
LR-27-SUR	Protactinium-231	-1.90E-01	U	3.44E-01	4.80E-01	2.10E-01	2.10E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Protactinium-231	-1.31E-03	U	2.35E-01	3.90E-01	2.10E-01	2.10E+01
LR-4-SUB	Protactinium-231	6.99E-03	U	2.77E-01	4.59E-01	2.10E-01	2.10E+01
LR-9-SUB	Protactinium-231	-1.50E-02	U	1.51E+01	4.28E-01	2.10E-01	2.10E+01
LR-13-SUB	Protactinium-231	2.55E-01		1.77E-01	3.67E-01	2.10E-01	2.10E+01
LR-15-SUB	Protactinium-231	8.03E-02	U	1.54E-01	5.33E-01	2.10E-01	2.10E+01
LR-18-SUB	Protactinium-231	-9.48E-03	U	1.73E+00	5.00E-01	2.10E-01	2.10E+01
LR-19-SUB	Protactinium-231	1.39E-01	U	2.25E-01	3.70E-01	2.10E-01	2.10E+01
LR-23-SUB	Protactinium-231	-1.19E-02	U	8.14E-01	4.35E-01	2.10E-01	2.10E+01
LR-24-SUB	Protactinium-231	-1.43E-01	U	3.26E-01	4.71E-01	2.10E-01	2.10E+01
LR-26-SUB	Protactinium-231	-1.72E-02	U	8.74E-01	4.11E-01	2.10E-01	2.10E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Protactinium-231	9.49E-03	U	2.39E-01	3.96E-01	2.10E-01	2.10E+01
RP-2-SUR	Protactinium-231	9.02E-02	U	2.50E-01	4.13E-01	2.10E-01	2.10E+01
RP-3-SUR	Protactinium-231	9.96E-02	U	1.70E-01	3.38E-01	2.10E-01	2.10E+01
RP-4-SUR	Protactinium-231	1.85E-02	U	1.77E-01	2.94E-01	2.10E-01	2.10E+01
RP-5-SUR	Protactinium-231	-1.44E-01	U	3.55E-01	3.93E-01	2.10E-01	2.10E+01
RP-6-SUR	Protactinium-231	9.67E-02	U	2.05E-01	2.77E-01	2.10E-01	2.10E+01
RP-7-SUR	Protactinium-231	-7.25E-02	U	3.01E-01	3.61E-01	2.10E-01	2.10E+01
RP-8-SUR	Protactinium-231	-1.19E-02	U	5.38E+01	4.16E-01	2.10E-01	2.10E+01
RP-9-SUR	Protactinium-231	-6.26E-02	U	1.98E-01	3.26E-01	2.10E-01	2.10E+01
RP-10-SUR	Protactinium-231	-1.10E-01	U	4.36E-01	4.21E-01	2.10E-01	2.10E+01
RP-11-SUR	Protactinium-231	-9.91E-02	U	3.02E-01	3.94E-01	2.10E-01	2.10E+01
RP-12-SUR	Protactinium-231	-3.54E-02	U	1.31E+00	3.08E-01	2.10E-01	2.10E+01
RP-13-SUR	Protactinium-231	1.64E-01	U	1.75E-01	2.42E-01	2.10E-01	2.10E+01
RP-14-SUR	Protactinium-231	1.39E-01	U	1.81E-01	2.98E-01	2.10E-01	2.10E+01
RP-15-SUR	Protactinium-231	-8.40E-02	U	3.83E-01	3.20E-01	2.10E-01	2.10E+01
RP-16-SUR	Protactinium-231	-1.04E-01	U	3.84E-01	3.77E-01	2.10E-01	2.10E+01
RP-17-SUR	Protactinium-231	-5.73E-02	U	6.79E-01	4.02E-01	2.10E-01	2.10E+01
RP-18-SUR	Protactinium-231	-2.28E-01	U	3.25E-01	4.17E-01	2.10E-01	2.10E+01
RP-19-SUR	Protactinium-231	8.51E-02	U	2.49E-01	4.11E-01	2.10E-01	2.10E+01
RP-20-SUR	Protactinium-231	1.98E-01		1.97E-01	3.21E-01	2.10E-01	2.10E+01
RP-21-SUR	Protactinium-231	-1.97E-02	U	3.88E-01	3.92E-01	2.10E-01	2.10E+01

Table 6.41 - Protactinium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Protactinium-231	-2.36E-02	U	2.63E-01	2.88E-01	2.10E-01	2.10E+01
RP-23-SUR	Protactinium-231	8.51E-01		1.53E-01	4.18E-01	2.10E-01	2.10E+01
RP-24-SUR	Protactinium-231	-1.45E-01	U	2.33E-01	3.65E-01	2.10E-01	2.10E+01
RP-25-SUR	Protactinium-231	-4.91E-03	U	2.64E+00	4.14E-01	2.10E-01	2.10E+01
RP-26-SUR	Protactinium-231	4.48E-02	U	2.51E-01	4.15E-01	2.10E-01	2.10E+01
RP-27-SUR	Protactinium-231	2.52E-02	U	4.20E-02	4.28E-01	2.10E-01	2.10E+01
RP-28-SUR	Protactinium-231	-3.25E-03	U	2.06E+00	3.72E-01	2.10E-01	2.10E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Protactinium-231	1.35E-02	U	2.38E-01	3.95E-01	2.10E-01	2.10E+01
RP-5-SUB	Protactinium-231	-9.97E-02	U	2.96E-01	4.31E-01	2.10E-01	2.10E+01
RP-7-SUB	Protactinium-231	9.50E-02	U	2.52E-01	4.16E-01	2.10E-01	2.10E+01
RP-12-SUB	Protactinium-231	-4.54E-04	U	2.38E-01	3.34E-01	2.10E-01	2.10E+01
RP-13-SUB	Protactinium-231	-1.64E-01	U	2.73E-01	4.18E-01	2.10E-01	2.10E+01
RP-17-SUB	Protactinium-231	2.64E-02	U	2.56E-01	4.24E-01	2.10E-01	2.10E+01
RP-18-SUB	Protactinium-231	-1.72E-01	U	2.77E-01	4.35E-01	2.10E-01	2.10E+01
RP-19-SUB	Protactinium-231	-9.02E-02	U	2.79E-01	4.24E-01	2.10E-01	2.10E+01
RP-20-SUB	Protactinium-231	-1.24E-01	U	2.53E-01	4.09E-01	2.10E-01	2.10E+01
RP-28-SUB	Protactinium-231	-1.09E-01	U	2.57E-01	4.14E-01	2.10E-01	2.10E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Protactinium-231	-4.05E-02	U	1.13E+00	4.83E-01	2.10E-01	2.10E+01
BP-2-SUR	Protactinium-231	-2.69E-02	U	8.48E+00	5.19E-01	2.10E-01	2.10E+01
BP-3-SUR	Protactinium-231	-3.93E-02	U	1.38E+00	5.06E-01	2.10E-01	2.10E+01
BP-4-SUR	Protactinium-231	-3.05E-01	U	3.50E-01	4.87E-01	2.10E-01	2.10E+01
BP-5-SUR	Protactinium-231	-6.02E-02	U	7.80E-01	5.43E-01	2.10E-01	2.10E+01
BP-6-SUR	Protactinium-231	-2.45E-02	U	4.73E+01	5.42E-01	2.10E-01	2.10E+01
BP-7-SUR	Protactinium-231	-1.35E-01	U	3.72E-01	5.59E-01	2.10E-01	2.10E+01
BP-8-SUR	Protactinium-231	5.10E-02	U	3.13E-01	5.18E-01	2.10E-01	2.10E+01
BP-9-SUR	Protactinium-231	-1.34E-02	U	7.95E-01	4.99E-01	2.10E-01	2.10E+01
BP-10-SUR	Protactinium-231	1.34E-01	U	3.25E-01	5.37E-01	2.10E-01	2.10E+01
BP-11-SUR	Protactinium-231	9.27E-02	U	2.97E-01	4.91E-01	2.10E-01	2.10E+01
BP-12-SUR	Protactinium-231	-1.97E-01	U	3.46E-01	5.36E-01	2.10E-01	2.10E+01
BP-13-SUR	Protactinium-231	-5.19E-03	U	6.87E-01	5.16E-01	2.10E-01	2.10E+01
BP-14-SUR	Protactinium-231	-2.16E-01	U	3.27E-01	5.08E-01	2.10E-01	2.10E+01
BP-15-SUR	Protactinium-231	-8.47E-02	U	3.64E-01	5.21E-01	2.10E-01	2.10E+01
BP-16-SUR	Protactinium-231	9.90E-02	U	3.10E-01	5.12E-01	2.10E-01	2.10E+01
BP-17-SUR	Protactinium-231	-1.13E-01	U	3.18E-01	5.26E-01	2.10E-01	2.10E+01
BP-18-SUR	Protactinium-231	1.50E-01	U	1.89E-01	3.11E-01	2.10E-01	2.10E+01
BP-19-SUR	Protactinium-231	-5.20E-03	U	7.13E-01	5.21E-01	2.10E-01	2.10E+01
BP-20-SUR	Protactinium-231	-2.77E-01	U	3.15E-01	5.17E-01	2.10E-01	2.10E+01
BP-21-SUR	Protactinium-231	-3.11E-01	U	3.20E-01	5.24E-01	2.10E-01	2.10E+01
BP-22-SUR	Protactinium-231	9.38E-02	U	3.25E-01	5.37E-01	2.10E-01	2.10E+01
BP-23-SUR	Protactinium-231	-1.55E-01	U	3.19E-01	5.26E-01	2.10E-01	2.10E+01
BP-24-SUR	Protactinium-231	-1.62E-01	U	3.23E-01	5.34E-01	2.10E-01	2.10E+01
BP-25-SUR	Protactinium-231	-5.51E-02	U	3.20E-01	5.30E-01	2.10E-01	2.10E+01
BP-26-SUR	Protactinium-231	-1.46E-01	U	3.13E-01	5.17E-01	2.10E-01	2.10E+01
BP-27-SUR	Protactinium-231	2.80E-02	U	3.14E-01	5.21E-01	2.10E-01	2.10E+01
BP-28-SUR	Protactinium-231	1.54E-02	U	3.08E-01	5.10E-01	2.10E-01	2.10E+01
BP-29-SUR	Protactinium-231	-1.36E-01	U	4.11E-01	4.40E-01	2.10E-01	2.10E+01
BP-30-SUR	Protactinium-231	-1.11E-01	U	3.88E-01	5.15E-01	2.10E-01	2.10E+01
BP-31-SUR	Protactinium-231	1.40E-02	U	3.06E-01	5.07E-01	2.10E-01	2.10E+01
BP-32-SUR	Protactinium-231	-1.31E-01	U	3.18E-01	5.25E-01	2.10E-01	2.10E+01
BP-33-SUR	Protactinium-231	-1.78E-01	U	5.98E-01	4.94E-01	2.10E-01	2.10E+01
BP-34-SUR	Protactinium-231	5.12E-02	U	3.21E-01	5.31E-01	2.10E-01	2.10E+01
BP-35-SUR	Protactinium-231	1.07E-01	U	2.36E-01	3.90E-01	2.10E-01	2.10E+01
BP-36-SUR	Protactinium-231	-1.17E-01	U	3.55E-01	4.99E-01	2.10E-01	2.10E+01
BP-37-SUR	Protactinium-231	-1.38E-01	U	3.75E-01	5.02E-01	2.10E-01	2.10E+01
BP-38-SUR	Protactinium-231	4.15E-03	U	2.95E-01	4.88E-01	2.10E-01	2.10E+01
BP-39-SUR	Protactinium-231	-3.45E-02	U	2.06E-01	3.41E-01	2.10E-01	2.10E+01
BP-40-SUR	Protactinium-231	-1.31E-01	U	2.82E-01	4.65E-01	2.10E-01	2.10E+01
BP-41-SUR	Protactinium-231	-2.43E-03	U	2.98E-01	4.93E-01	2.10E-01	2.10E+01
BP-42-SUR	Protactinium-231	-1.79E-01	U	2.91E-01	4.78E-01	2.10E-01	2.10E+01

Table 6.41 - Protactinium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Protactinium-231	1.50E-02	U	2.95E-01	4.89E-01	2.10E-01	2.10E+01
BP-44-SUR	Protactinium-231	3.19E-01		2.23E-01	3.56E-01	2.10E-01	2.10E+01
BP-45-SUR	Protactinium-231	1.13E-01	U	1.99E-01	4.66E-01	2.10E-01	2.10E+01
BP-46-SUR	Protactinium-231	-2.13E-01	U	3.46E-01	4.39E-01	2.10E-01	2.10E+01
BP-47-SUR	Protactinium-231	-1.31E-01	U	4.82E-01	4.29E-01	2.10E-01	2.10E+01
BP-48-SUR	Protactinium-231	-4.19E-02	U	2.21E+00	5.13E-01	2.10E-01	2.10E+01
BP-49-SUR	Protactinium-231	-1.11E-01	U	5.35E-01	4.23E-01	2.10E-01	2.10E+01
BP-50-SUR	Protactinium-231	1.27E-02	U	2.99E-01	4.95E-01	2.10E-01	2.10E+01
BP-51-SUR	Protactinium-231	-7.08E-02	U	8.46E-01	4.16E-01	2.10E-01	2.10E+01
BP-52-SUR	Protactinium-231	4.02E-02	U	2.41E-01	3.99E-01	2.10E-01	2.10E+01
BP-53-SUR	Protactinium-231	-1.13E-01	U	5.26E-01	4.91E-01	2.10E-01	2.10E+01
BP-54-SUR	Protactinium-231	4.54E-02	U	2.19E-01	3.62E-01	2.10E-01	2.10E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Protactinium-231	-1.13E-01	U	2.36E-01	3.89E-01	2.10E-01	2.10E+01
BP-4-SUB	Protactinium-231	-6.05E-02	U	2.78E-01	4.61E-01	2.10E-01	2.10E+01
BP-5-SUB	Protactinium-231	1.25E+00		2.07E-01	4.69E-01	2.10E-01	2.10E+01
BP-9-SUB	Protactinium-231	-8.82E-02	U	2.06E-01	3.40E-01	2.10E-01	2.10E+01
BP-12-SUB	Protactinium-231	-2.53E-01	U	3.51E-01	4.76E-01	2.10E-01	2.10E+01
BP-13-SUB	Protactinium-231	-1.67E-01	U	4.43E-01	4.87E-01	2.10E-01	2.10E+01
BP-14-SUB	Protactinium-231	2.07E-01	U	2.17E-01	3.55E-01	2.10E-01	2.10E+01
BP-16-SUB	Protactinium-231	-1.81E-01	U	2.42E-01	3.98E-01	2.10E-01	2.10E+01
BP-20-SUB	Protactinium-231	-4.69E-02	U	8.71E-01	4.63E-01	2.10E-01	2.10E+01
BP-23-SUB	Protactinium-231	8.70E-02	U	9.58E-02	3.83E-01	2.10E-01	2.10E+01
BP-29-SUB	Protactinium-231	-5.14E-01	U	4.40E+00	7.23E+00	2.10E-01	2.10E+01
BP-34-SUB	Protactinium-231	1.77E+00		2.63E-01	4.68E-01	2.10E-01	2.10E+01
BP-35-SUB	Protactinium-231	-1.40E-04	U	1.70E-04	4.02E-01	2.10E-01	2.10E+01
BP-38-SUB	Protactinium-231	5.22E-02	U	2.94E-01	4.87E-01	2.10E-01	2.10E+01
BP-43-SUB	Protactinium-231	-3.54E-02	U	2.30E-01	3.81E-01	2.10E-01	2.10E+01
BP-45-SUB	Protactinium-231	3.57E-02	U	2.13E-01	3.53E-01	2.10E-01	2.10E+01
BP-46-SUB	Protactinium-231	-1.65E-01	U	3.38E-01	5.58E-01	2.10E-01	2.10E+01
BP-48-SUB	Protactinium-231	-1.94E-01	U	2.89E-01	4.75E-01	2.10E-01	2.10E+01
BP-50-SUB	Protactinium-231	-6.70E-02	U	2.86E-01	4.73E-01	2.10E-01	2.10E+01
BP-51-SUB	Protactinium-231	-1.69E-01	U	3.13E-01	5.15E-01	2.10E-01	2.10E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.42 - Radium-226 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Radium-226	1.51E+00		1.71E-01	6.63E-02	6.32E-04	6.32E-02
LR-2-SUR	Radium-226	1.33E+00		1.52E-01	6.06E-02	6.32E-04	6.32E-02
LR-3-SUR	Radium-226	1.45E+00		1.62E-01	6.49E-02	6.32E-04	6.32E-02
LR-4-SUR	Radium-226	1.45E+00		1.67E-01	5.93E-02	6.32E-04	6.32E-02
LR-5-SUR	Radium-226	1.37E+00		1.56E-01	6.56E-02	6.32E-04	6.32E-02
LR-6-SUR	Radium-226	1.38E+00		1.58E-01	6.61E-02	6.32E-04	6.32E-02
LR-7-SUR	Radium-226	1.38E+00		1.50E-01	6.18E-02	6.32E-04	6.32E-02
LR-8-SUR	Radium-226	1.45E+00		1.63E-01	6.11E-02	6.32E-04	6.32E-02
LR-9-SUR	Radium-226	1.39E+00		1.67E-01	7.29E-02	6.32E-04	6.32E-02
LR-10-SUR	Radium-226	1.44E+00		1.63E-01	6.21E-02	6.32E-04	6.32E-02
LR-11-SUR	Radium-226	1.44E+00		1.66E-01	6.16E-02	6.32E-04	6.32E-02
LR-12-SUR	Radium-226	1.43E+00		1.63E-01	5.85E-02	6.32E-04	6.32E-02
LR-13-SUR	Radium-226	1.26E+00		1.50E-01	6.19E-02	6.32E-04	6.32E-02
LR-14-SUR	Radium-226	1.26E+00		1.46E-01	5.58E-02	6.32E-04	6.32E-02
LR-15-SUR	Radium-226	1.50E+00		1.62E-01	5.77E-02	6.32E-04	6.32E-02
LR-16-SUR	Radium-226	1.55E+00		1.75E-01	7.35E-02	6.32E-04	6.32E-02
LR-17-SUR	Radium-226	1.39E+00		1.60E-01	6.35E-02	6.32E-04	6.32E-02
LR-18-SUR	Radium-226	1.49E+00		1.73E-01	6.88E-02	6.32E-04	6.32E-02
LR-19-SUR	Radium-226	1.49E+00	J	1.70E-01	6.30E-02	6.32E-04	6.32E-02
LR-20-SUR	Radium-226	1.54E+00	J	1.74E-01	6.73E-02	6.32E-04	6.32E-02
LR-21-SUR	Radium-226	1.46E+00	J	1.65E-01	6.97E-02	6.32E-04	6.32E-02
LR-22-SUR	Radium-226	1.51E+00	J	1.71E-01	6.20E-02	6.32E-04	6.32E-02
LR-23-SUR	Radium-226	1.47E+00	J	1.65E-01	6.59E-02	6.32E-04	6.32E-02
LR-24-SUR	Radium-226	1.42E+00	J	1.55E-01	6.56E-02	6.32E-04	6.32E-02
LR-25-SUR	Radium-226	1.48E+00	J	1.73E-01	6.37E-02	6.32E-04	6.32E-02
LR-26-SUR	Radium-226	1.51E+00	J	1.69E-01	6.37E-02	6.32E-04	6.32E-02
LR-27-SUR	Radium-226	1.35E+00	J	1.56E-01	6.05E-02	6.32E-04	6.32E-02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Radium-226	1.51E+00	J	1.74E-01	6.58E-02	6.32E-04	6.32E-02
LR-4-SUB	Radium-226	1.35E+00		1.52E-01	6.32E-02	6.32E-04	6.32E-02
LR-9-SUB	Radium-226	1.26E+00		1.45E-01	5.61E-02	6.32E-04	6.32E-02
LR-13-SUB	Radium-226	1.47E+00		1.68E-01	6.35E-02	6.32E-04	6.32E-02
LR-15-SUB	Radium-226	1.56E+00		1.79E-01	6.49E-02	6.32E-04	6.32E-02
LR-18-SUB	Radium-226	1.35E+00		1.54E-01	5.89E-02	6.32E-04	6.32E-02
LR-19-SUB	Radium-226	1.53E+00		1.77E-01	6.75E-02	6.32E-04	6.32E-02
LR-23-SUB	Radium-226	1.48E+00		1.71E-01	6.94E-02	6.32E-04	6.32E-02
LR-24-SUB	Radium-226	1.42E+00		1.60E-01	5.59E-02	6.32E-04	6.32E-02
LR-26-SUB	Radium-226	1.13E+00		1.34E-01	6.06E-02	6.32E-04	6.32E-02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Radium-226	7.95E-01		9.43E-02	5.28E-02	6.32E-04	6.32E-02
RP-2-SUR	Radium-226	8.57E-01		1.04E-01	4.93E-02	6.32E-04	6.32E-02
RP-3-SUR	Radium-226	7.97E-01		0.00E+00	5.30E-02	6.32E-04	6.32E-02
RP-4-SUR	Radium-226	8.03E-01		9.98E-02	5.34E-02	6.32E-04	6.32E-02
RP-5-SUR	Radium-226	9.02E-01		1.11E-01	5.40E-02	6.32E-04	6.32E-02
RP-6-SUR	Radium-226	9.23E-01		1.06E-01	5.24E-02	6.32E-04	6.32E-02
RP-7-SUR	Radium-226	9.19E-01		1.11E-01	5.23E-02	6.32E-04	6.32E-02
RP-8-SUR	Radium-226	9.58E-01		1.18E-01	5.86E-02	6.32E-04	6.32E-02
RP-9-SUR	Radium-226	1.01E+00		1.18E-01	5.45E-02	6.32E-04	6.32E-02
RP-10-SUR	Radium-226	1.01E+00		1.20E-01	5.38E-02	6.32E-04	6.32E-02
RP-11-SUR	Radium-226	9.10E-01		1.09E-01	5.40E-02	6.32E-04	6.32E-02
RP-12-SUR	Radium-226	8.38E-01		1.06E-01	5.47E-02	6.32E-04	6.32E-02
RP-13-SUR	Radium-226	8.08E-01		9.46E-02	5.11E-02	6.32E-04	6.32E-02
RP-14-SUR	Radium-226	9.04E-01		1.01E-01	5.04E-02	6.32E-04	6.32E-02
RP-15-SUR	Radium-226	9.45E-01		1.06E-01	5.38E-02	6.32E-04	6.32E-02
RP-16-SUR	Radium-226	9.21E-01		1.07E-01	5.35E-02	6.32E-04	6.32E-02
RP-17-SUR	Radium-226	9.52E-01		1.12E-01	5.26E-02	6.32E-04	6.32E-02
RP-18-SUR	Radium-226	9.76E-01		1.17E-01	5.78E-02	6.32E-04	6.32E-02
RP-19-SUR	Radium-226	1.03E+00		1.20E-01	5.58E-02	6.32E-04	6.32E-02
RP-20-SUR	Radium-226	9.22E-01		1.10E-01	5.22E-02	6.32E-04	6.32E-02
RP-21-SUR	Radium-226	8.11E-01		9.20E-02	5.60E-02	6.32E-04	6.32E-02

Table 6.42 - Radium-226 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Radium-226	8.28E-01		1.05E-01	5.95E-02	6.32E-04	6.32E-02
RP-23-SUR	Radium-226	8.35E-01		1.02E-01	5.39E-02	6.32E-04	6.32E-02
RP-24-SUR	Radium-226	8.93E-01		1.10E-01	5.55E-02	6.32E-04	6.32E-02
RP-25-SUR	Radium-226	8.90E-01		1.10E-01	6.22E-02	6.32E-04	6.32E-02
RP-26-SUR	Radium-226	9.56E-01		1.15E-01	6.03E-02	6.32E-04	6.32E-02
RP-27-SUR	Radium-226	9.74E-01		1.18E-01	5.38E-02	6.32E-04	6.32E-02
RP-28-SUR	Radium-226	9.54E-01		1.16E-01	5.81E-02	6.32E-04	6.32E-02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Radium-226	7.65E-01		9.65E-02	5.10E-02	6.32E-04	6.32E-02
RP-5-SUB	Radium-226	8.48E-01		1.10E-01	5.89E-02	6.32E-04	6.32E-02
RP-7-SUB	Radium-226	9.97E-01		1.12E-01	5.51E-02	6.32E-04	6.32E-02
RP-12-SUB	Radium-226	8.45E-01		1.06E-01	5.49E-02	6.32E-04	6.32E-02
RP-13-SUB	Radium-226	8.67E-01		1.06E-01	4.99E-02	6.32E-04	6.32E-02
RP-17-SUB	Radium-226	1.07E+00		1.28E-01	5.92E-02	6.32E-04	6.32E-02
RP-18-SUB	Radium-226	1.07E+00		1.25E-01	6.16E-02	6.32E-04	6.32E-02
RP-19-SUB	Radium-226	1.01E+00		1.19E-01	5.53E-02	6.32E-04	6.32E-02
RP-20-SUB	Radium-226	1.01E+00		1.21E-01	5.15E-02	6.32E-04	6.32E-02
RP-28-SUB	Radium-226	9.70E-01		1.15E-01	5.20E-02	6.32E-04	6.32E-02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Radium-226	1.68E+00		1.88E-01	7.03E-02	6.32E-04	6.32E-02
BP-2-SUR	Radium-226	1.62E+00		1.76E-01	6.24E-02	6.32E-04	6.32E-02
BP-3-SUR	Radium-226	1.65E+00		1.78E-01	6.97E-02	6.32E-04	6.32E-02
BP-4-SUR	Radium-226	1.78E+00		1.97E-01	7.39E-02	6.32E-04	6.32E-02
BP-5-SUR	Radium-226	1.77E+00		1.96E-01	6.71E-02	6.32E-04	6.32E-02
BP-6-SUR	Radium-226	1.73E+00		1.88E-01	6.07E-02	6.32E-04	6.32E-02
BP-7-SUR	Radium-226	1.71E+00		1.80E-01	6.19E-02	6.32E-04	6.32E-02
BP-8-SUR	Radium-226	1.73E+00		1.84E-01	7.14E-02	6.32E-04	6.32E-02
BP-9-SUR	Radium-226	1.83E+00		2.04E-01	6.06E-02	6.32E-04	6.32E-02
BP-10-SUR	Radium-226	1.88E+00		2.01E-01	6.86E-02	6.32E-04	6.32E-02
BP-11-SUR	Radium-226	1.70E+00		1.84E-01	6.51E-02	6.32E-04	6.32E-02
BP-12-SUR	Radium-226	1.71E+00		1.90E-01	5.86E-02	6.32E-04	6.32E-02
BP-13-SUR	Radium-226	1.78E+00		1.96E-01	6.25E-02	6.32E-04	6.32E-02
BP-14-SUR	Radium-226	1.56E+00		1.77E-01	6.24E-02	6.32E-04	6.32E-02
BP-15-SUR	Radium-226	1.65E+00		1.80E-01	6.28E-02	6.32E-04	6.32E-02
BP-16-SUR	Radium-226	1.57E+00		1.76E-01	6.72E-02	6.32E-04	6.32E-02
BP-17-SUR	Radium-226	1.68E+00		1.80E-01	6.64E-02	6.32E-04	6.32E-02
BP-18-SUR	Radium-226	1.69E+00		1.81E-01	6.14E-02	6.32E-04	6.32E-02
BP-19-SUR	Radium-226	1.82E+00		2.02E-01	5.76E-02	6.32E-04	6.32E-02
BP-20-SUR	Radium-226	1.86E+00		2.06E-01	6.53E-02	6.32E-04	6.32E-02
BP-21-SUR	Radium-226	1.82E+00		1.99E-01	6.85E-02	6.32E-04	6.32E-02
BP-22-SUR	Radium-226	1.80E+00		1.99E-01	5.37E-02	6.32E-04	6.32E-02
BP-23-SUR	Radium-226	1.83E+00		2.01E-01	6.38E-02	6.32E-04	6.32E-02
BP-24-SUR	Radium-226	1.81E+00		2.01E-01	6.10E-02	6.32E-04	6.32E-02
BP-25-SUR	Radium-226	1.66E+00		1.88E-01	6.23E-02	6.32E-04	6.32E-02
BP-26-SUR	Radium-226	1.67E+00		1.85E-01	5.03E-02	6.32E-04	6.32E-02
BP-27-SUR	Radium-226	1.67E+00		1.87E-01	5.96E-02	6.32E-04	6.32E-02
BP-28-SUR	Radium-226	1.62E+00		1.80E-01	6.33E-02	6.32E-04	6.32E-02
BP-29-SUR	Radium-226	1.65E+00		1.84E-01	6.84E-02	6.32E-04	6.32E-02
BP-30-SUR	Radium-226	1.73E+00		2.01E-01	5.44E-02	6.32E-04	6.32E-02
BP-31-SUR	Radium-226	1.66E+00		1.85E-01	6.27E-02	6.32E-04	6.32E-02
BP-32-SUR	Radium-226	1.75E+00		1.97E-01	6.23E-02	6.32E-04	6.32E-02
BP-33-SUR	Radium-226	1.45E+00		1.58E-01	6.70E-02	6.32E-04	6.32E-02
BP-34-SUR	Radium-226	1.69E+00		1.84E-01	6.94E-02	6.32E-04	6.32E-02
BP-35-SUR	Radium-226	1.47E+00		1.66E-01	7.15E-02	6.32E-04	6.32E-02
BP-36-SUR	Radium-226	1.38E+00		1.54E-01	6.46E-02	6.32E-04	6.32E-02
BP-37-SUR	Radium-226	1.32E+00		1.48E-01	7.07E-02	6.32E-04	6.32E-02
BP-38-SUR	Radium-226	1.49E+00		1.68E-01	6.85E-02	6.32E-04	6.32E-02
BP-39-SUR	Radium-226	1.26E+00		1.47E-01	6.54E-02	6.32E-04	6.32E-02
BP-40-SUR	Radium-226	1.59E+00		1.82E-01	7.28E-02	6.32E-04	6.32E-02
BP-41-SUR	Radium-226	1.28E+00		1.50E-01	6.00E-02	6.32E-04	6.32E-02
BP-42-SUR	Radium-226	1.66E+00		1.83E-01	6.07E-02	6.32E-04	6.32E-02

Table 6.42 - Radium-226 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Radium-226	1.54E+00		1.84E-01	7.68E-02	6.32E-04	6.32E-02
BP-44-SUR	Radium-226	1.68E+00		1.87E-01	6.93E-02	6.32E-04	6.32E-02
BP-45-SUR	Radium-226	1.60E+00		1.76E-01	7.30E-02	6.32E-04	6.32E-02
BP-46-SUR	Radium-226	1.68E+00		1.81E-01	6.46E-02	6.32E-04	6.32E-02
BP-47-SUR	Radium-226	1.77E+00		1.99E-01	7.75E-02	6.32E-04	6.32E-02
BP-48-SUR	Radium-226	1.70E+00		1.89E-01	6.38E-02	6.32E-04	6.32E-02
BP-49-SUR	Radium-226	1.44E+00		1.65E-01	5.70E-02	6.32E-04	6.32E-02
BP-50-SUR	Radium-226	1.38E+00		1.59E-01	6.88E-02	6.32E-04	6.32E-02
BP-51-SUR	Radium-226	1.56E+00		1.77E-01	5.89E-02	6.32E-04	6.32E-02
BP-52-SUR	Radium-226	1.12E+00		1.24E-01	5.71E-02	6.32E-04	6.32E-02
BP-53-SUR	Radium-226	1.28E+00		1.49E-01	6.03E-02	6.32E-04	6.32E-02
BP-54-SUR	Radium-226	1.33E+00		1.52E-01	5.93E-02	6.32E-04	6.32E-02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Radium-226	1.19E+00		1.45E-01	5.34E-02	6.32E-04	6.32E-02
BP-4-SUB	Radium-226	9.28E-01		1.20E-01	5.59E-02	6.32E-04	6.32E-02
BP-5-SUB	Radium-226	1.39E+00		1.57E-01	6.52E-02	6.32E-04	6.32E-02
BP-9-SUB	Radium-226	1.60E+00		1.71E-01	5.95E-02	6.32E-04	6.32E-02
BP-12-SUB	Radium-226	1.55E+00		1.69E-01	6.71E-02	6.32E-04	6.32E-02
BP-13-SUB	Radium-226	1.71E+00		1.86E-01	6.15E-02	6.32E-04	6.32E-02
BP-14-SUB	Radium-226	1.41E+00		1.62E-01	7.13E-02	6.32E-04	6.32E-02
BP-16-SUB	Radium-226	1.30E+00		1.42E-01	5.88E-02	6.32E-04	6.32E-02
BP-20-SUB	Radium-226	1.19E+00		1.47E-01	6.04E-02	6.32E-04	6.32E-02
BP-23-SUB	Radium-226	1.41E+00		1.62E-01	5.94E-02	6.32E-04	6.32E-02
BP-29-SUB	Radium-226	1.26E+00		1.44E-01	5.37E-02	6.32E-04	6.32E-02
BP-34-SUB	Radium-226	1.68E+00		1.87E-01	6.12E-02	6.32E-04	6.32E-02
BP-35-SUB	Radium-226	1.45E+00		1.72E-01	5.67E-02	6.32E-04	6.32E-02
BP-38-SUB	Radium-226	1.37E+00		1.58E-01	6.90E-02	6.32E-04	6.32E-02
BP-43-SUB	Radium-226	1.25E+00		1.54E-01	6.26E-02	6.32E-04	6.32E-02
BP-45-SUB	Radium-226	1.27E+00		1.56E-01	6.10E-02	6.32E-04	6.32E-02
BP-46-SUB	Radium-226	1.26E+00		1.56E-01	5.75E-02	6.32E-04	6.32E-02
BP-48-SUB	Radium-226	1.33E+00		1.49E-01	6.05E-02	6.32E-04	6.32E-02
BP-50-SUB	Radium-226	1.33E+00		1.53E-01	5.77E-02	6.32E-04	6.32E-02
BP-51-SUB	Radium-226	1.69E+00		1.96E-01	5.92E-02	6.32E-04	6.32E-02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.43 - Radium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Radium-228	1.33E+00		1.49E-01	3.88E-02	1.16E-03	1.16E-01
LR-2-SUR	Radium-228	1.33E+00		1.46E-01	3.88E-02	1.16E-03	1.16E-01
LR-3-SUR	Radium-228	1.40E+00		1.55E-01	3.87E-02	1.16E-03	1.16E-01
LR-4-SUR	Radium-228	1.35E+00		1.51E-01	3.92E-02	1.16E-03	1.16E-01
LR-5-SUR	Radium-228	1.37E+00		1.52E-01	3.91E-02	1.16E-03	1.16E-01
LR-6-SUR	Radium-228	1.36E+00		1.50E-01	4.02E-02	1.16E-03	1.16E-01
LR-7-SUR	Radium-228	1.30E+00		1.44E-01	3.76E-02	1.16E-03	1.16E-01
LR-8-SUR	Radium-228	1.32E+00		1.47E-01	3.69E-02	1.16E-03	1.16E-01
LR-9-SUR	Radium-228	1.37E+00		1.52E-01	3.93E-02	1.16E-03	1.16E-01
LR-10-SUR	Radium-228	1.38E+00		1.54E-01	4.54E-02	1.16E-03	1.16E-01
LR-11-SUR	Radium-228	1.36E+00		1.51E-01	4.48E-02	1.16E-03	1.16E-01
LR-12-SUR	Radium-228	1.30E+00		1.44E-01	4.03E-02	1.16E-03	1.16E-01
LR-13-SUR	Radium-228	1.25E+00		1.39E-01	3.69E-02	1.16E-03	1.16E-01
LR-14-SUR	Radium-228	1.18E+00		1.32E-01	3.88E-02	1.16E-03	1.16E-01
LR-15-SUR	Radium-228	1.52E+00		1.69E-01	4.26E-02	1.16E-03	1.16E-01
LR-16-SUR	Radium-228	1.47E+00		1.61E-01	3.72E-02	1.16E-03	1.16E-01
LR-17-SUR	Radium-228	1.36E+00		1.50E-01	3.29E-02	1.16E-03	1.16E-01
LR-18-SUR	Radium-228	1.47E+00		1.64E-01	3.83E-02	1.16E-03	1.16E-01
LR-19-SUR	Radium-228	1.50E+00		1.66E-01	4.08E-02	1.16E-03	1.16E-01
LR-20-SUR	Radium-228	1.52E+00		1.69E-01	3.98E-02	1.16E-03	1.16E-01
LR-21-SUR	Radium-228	1.47E+00		1.64E-01	3.98E-02	1.16E-03	1.16E-01
LR-22-SUR	Radium-228	1.47E+00		1.63E-01	3.95E-02	1.16E-03	1.16E-01
LR-23-SUR	Radium-228	1.47E+00		1.63E-01	3.69E-02	1.16E-03	1.16E-01
LR-24-SUR	Radium-228	1.40E+00		1.56E-01	3.70E-02	1.16E-03	1.16E-01
LR-25-SUR	Radium-228	1.41E+00		1.55E-01	3.97E-02	1.16E-03	1.16E-01
LR-26-SUR	Radium-228	1.36E+00		1.52E-01	4.03E-02	1.16E-03	1.16E-01
LR-27-SUR	Radium-228	1.27E+00		1.42E-01	3.74E-02	1.16E-03	1.16E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Radium-228	1.53E+00		1.69E-01	3.92E-02	1.16E-03	1.16E-01
LR-4-SUB	Radium-228	1.51E+00		1.67E-01	3.58E-02	1.16E-03	1.16E-01
LR-9-SUB	Radium-228	1.62E+00		1.79E-01	3.62E-02	1.16E-03	1.16E-01
LR-13-SUB	Radium-228	1.47E+00		1.62E-01	3.84E-02	1.16E-03	1.16E-01
LR-15-SUB	Radium-228	1.80E+00		1.99E-01	5.04E-02	1.16E-03	1.16E-01
LR-18-SUB	Radium-228	1.50E+00		1.67E-01	4.50E-02	1.16E-03	1.16E-01
LR-19-SUB	Radium-228	1.62E+00		1.79E-01	4.59E-02	1.16E-03	1.16E-01
LR-23-SUB	Radium-228	1.79E+00		1.97E-01	4.75E-02	1.16E-03	1.16E-01
LR-24-SUB	Radium-228	1.45E+00		1.60E-01	4.21E-02	1.16E-03	1.16E-01
LR-26-SUB	Radium-228	1.65E+00		1.83E-01	4.26E-02	1.16E-03	1.16E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Radium-228	1.05E+00		1.16E-01	3.15E-02	1.16E-03	1.16E-01
RP-2-SUR	Radium-228	1.04E+00		1.15E-01	3.38E-02	1.16E-03	1.16E-01
RP-3-SUR	Radium-228	1.07E+00		1.20E-01	3.49E-02	1.16E-03	1.16E-01
RP-4-SUR	Radium-228	9.66E-01		1.08E-01	3.31E-02	1.16E-03	1.16E-01
RP-5-SUR	Radium-228	9.97E-01		1.12E-01	3.30E-02	1.16E-03	1.16E-01
RP-6-SUR	Radium-228	1.01E+00		1.12E-01	3.35E-02	1.16E-03	1.16E-01
RP-7-SUR	Radium-228	1.06E+00		1.18E-01	3.74E-02	1.16E-03	1.16E-01
RP-8-SUR	Radium-228	1.10E+00		1.23E-01	3.86E-02	1.16E-03	1.16E-01
RP-9-SUR	Radium-228	1.01E+00		1.04E-01	3.06E-02	1.16E-03	1.16E-01
RP-10-SUR	Radium-228	9.08E-01		1.12E-01	4.51E-02	1.16E-03	1.16E-01
RP-11-SUR	Radium-228	1.13E+00		1.26E-01	3.79E-02	1.16E-03	1.16E-01
RP-12-SUR	Radium-228	1.01E+00		1.13E-01	3.20E-02	1.16E-03	1.16E-01
RP-13-SUR	Radium-228	9.69E-01		1.08E-01	3.12E-02	1.16E-03	1.16E-01
RP-14-SUR	Radium-228	1.01E+00		1.12E-01	3.18E-02	1.16E-03	1.16E-01
RP-15-SUR	Radium-228	9.92E-01		1.11E-01	3.35E-02	1.16E-03	1.16E-01
RP-16-SUR	Radium-228	9.70E-01		1.07E-01	3.22E-02	1.16E-03	1.16E-01
RP-17-SUR	Radium-228	1.01E+00		1.13E-01	3.30E-02	1.16E-03	1.16E-01
RP-18-SUR	Radium-228	1.06E+00		1.17E-01	3.28E-02	1.16E-03	1.16E-01
RP-19-SUR	Radium-228	1.08E+00		1.19E-01	3.51E-02	1.16E-03	1.16E-01
RP-20-SUR	Radium-228	1.21E+00		1.33E-01	3.85E-02	1.16E-03	1.16E-01
RP-21-SUR	Radium-228	1.01E+00		1.12E-01	3.22E-02	1.16E-03	1.16E-01

Table 6.43 - Radium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Radium-228	1.00E+00		1.12E-01	3.33E-02	1.16E-03	1.16E-01
RP-23-SUR	Radium-228	1.10E+00		1.24E-01	4.15E-02	1.16E-03	1.16E-01
RP-24-SUR	Radium-228	1.01E+00		1.13E-01	3.22E-02	1.16E-03	1.16E-01
RP-25-SUR	Radium-228	1.05E+00		1.17E-01	3.47E-02	1.16E-03	1.16E-01
RP-26-SUR	Radium-228	1.08E+00		1.20E-01	3.49E-02	1.16E-03	1.16E-01
RP-27-SUR	Radium-228	1.12E+00		1.24E-01	3.47E-02	1.16E-03	1.16E-01
RP-28-SUR	Radium-228	1.16E+00		1.30E-01	3.53E-02	1.16E-03	1.16E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Radium-228	9.97E-01		1.12E-01	3.28E-02	1.16E-03	1.16E-01
RP-5-SUB	Radium-228	1.13E+00		1.26E-01	3.58E-02	1.16E-03	1.16E-01
RP-7-SUB	Radium-228	1.15E+00		1.28E-01	3.46E-02	1.16E-03	1.16E-01
RP-12-SUB	Radium-228	9.72E-01		1.09E-01	3.08E-02	1.16E-03	1.16E-01
RP-13-SUB	Radium-228	1.15E+00		1.28E-01	3.48E-02	1.16E-03	1.16E-01
RP-17-SUB	Radium-228	1.21E+00		1.33E-01	3.46E-02	1.16E-03	1.16E-01
RP-18-SUB	Radium-228	1.25E+00		1.39E-01	3.55E-02	1.16E-03	1.16E-01
RP-19-SUB	Radium-228	1.22E+00		1.35E-01	3.36E-02	1.16E-03	1.16E-01
RP-20-SUB	Radium-228	1.20E+00		1.33E-01	3.36E-02	1.16E-03	1.16E-01
RP-28-SUB	Radium-228	1.16E+00		1.29E-01	3.39E-02	1.16E-03	1.16E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Radium-228	1.78E+00		1.96E-01	4.00E-02	1.16E-03	1.16E-01
BP-2-SUR	Radium-228	1.83E+00		2.02E-01	4.01E-02	1.16E-03	1.16E-01
BP-3-SUR	Radium-228	1.89E+00		2.08E-01	4.04E-02	1.16E-03	1.16E-01
BP-4-SUR	Radium-228	2.03E+00		2.24E-01	4.16E-02	1.16E-03	1.16E-01
BP-5-SUR	Radium-228	2.10E+00		2.31E-01	4.18E-02	1.16E-03	1.16E-01
BP-6-SUR	Radium-228	2.12E+00		2.33E-01	4.18E-02	1.16E-03	1.16E-01
BP-7-SUR	Radium-228	2.10E+00		2.30E-01	4.40E-02	1.16E-03	1.16E-01
BP-8-SUR	Radium-228	2.04E+00		2.25E-01	4.19E-02	1.16E-03	1.16E-01
BP-9-SUR	Radium-228	2.00E+00		2.20E-01	4.21E-02	1.16E-03	1.16E-01
BP-10-SUR	Radium-228	2.09E+00		2.30E-01	4.23E-02	1.16E-03	1.16E-01
BP-11-SUR	Radium-228	1.98E+00		2.17E-01	4.17E-02	1.16E-03	1.16E-01
BP-12-SUR	Radium-228	1.92E+00		2.12E-01	4.18E-02	1.16E-03	1.16E-01
BP-13-SUR	Radium-228	1.99E+00		2.05E-01	4.61E-02	1.16E-03	1.16E-01
BP-14-SUR	Radium-228	1.68E+00		1.85E-01	3.73E-02	1.16E-03	1.16E-01
BP-15-SUR	Radium-228	1.83E+00		2.01E-01	4.07E-02	1.16E-03	1.16E-01
BP-16-SUR	Radium-228	1.78E+00		1.96E-01	4.03E-02	1.16E-03	1.16E-01
BP-17-SUR	Radium-228	1.88E+00		2.06E-01	4.05E-02	1.16E-03	1.16E-01
BP-18-SUR	Radium-228	1.87E+00		2.05E-01	3.93E-02	1.16E-03	1.16E-01
BP-19-SUR	Radium-228	1.98E+00		2.03E-01	4.30E-02	1.16E-03	1.16E-01
BP-20-SUR	Radium-228	2.01E+00		2.20E-01	4.14E-02	1.16E-03	1.16E-01
BP-21-SUR	Radium-228	2.04E+00		2.24E-01	4.14E-02	1.16E-03	1.16E-01
BP-22-SUR	Radium-228	1.95E+00		2.00E-01	4.47E-02	1.16E-03	1.16E-01
BP-23-SUR	Radium-228	1.95E+00		2.01E-01	4.43E-02	1.16E-03	1.16E-01
BP-24-SUR	Radium-228	1.96E+00		2.01E-01	4.55E-02	1.16E-03	1.16E-01
BP-25-SUR	Radium-228	1.80E+00		1.85E-01	4.61E-02	1.16E-03	1.16E-01
BP-26-SUR	Radium-228	1.77E+00		1.81E-01	4.43E-02	1.16E-03	1.16E-01
BP-27-SUR	Radium-228	1.80E+00		1.86E-01	4.37E-02	1.16E-03	1.16E-01
BP-28-SUR	Radium-228	1.61E+00		1.65E-01	4.22E-02	1.16E-03	1.16E-01
BP-29-SUR	Radium-228	1.70E+00		1.74E-01	4.27E-02	1.16E-03	1.16E-01
BP-30-SUR	Radium-228	1.85E+00		2.05E-01	4.30E-02	1.16E-03	1.16E-01
BP-31-SUR	Radium-228	1.89E+00		1.95E-01	4.47E-02	1.16E-03	1.16E-01
BP-32-SUR	Radium-228	1.96E+00		2.00E-01	4.48E-02	1.16E-03	1.16E-01
BP-33-SUR	Radium-228	1.98E+00		2.19E-01	4.43E-02	1.16E-03	1.16E-01
BP-34-SUR	Radium-228	1.98E+00		2.03E-01	4.48E-02	1.16E-03	1.16E-01
BP-35-SUR	Radium-228	1.81E+00		2.00E-01	4.41E-02	1.16E-03	1.16E-01
BP-36-SUR	Radium-228	1.82E+00		2.01E-01	4.25E-02	1.16E-03	1.16E-01
BP-37-SUR	Radium-228	1.75E+00		1.94E-01	4.57E-02	1.16E-03	1.16E-01
BP-38-SUR	Radium-228	1.60E+00		1.77E-01	4.41E-02	1.16E-03	1.16E-01
BP-39-SUR	Radium-228	1.54E+00		1.71E-01	4.22E-02	1.16E-03	1.16E-01
BP-40-SUR	Radium-228	1.58E+00		1.75E-01	4.43E-02	1.16E-03	1.16E-01
BP-41-SUR	Radium-228	1.68E+00		1.71E-01	4.25E-02	1.16E-03	1.16E-01
BP-42-SUR	Radium-228	1.71E+00		1.90E-01	4.41E-02	1.16E-03	1.16E-01

Table 6.43 - Radium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Radium-228	1.77E+00		1.82E-01	4.39E-02	1.16E-03	1.16E-01
BP-44-SUR	Radium-228	1.72E+00		1.90E-01	4.29E-02	1.16E-03	1.16E-01
BP-45-SUR	Radium-228	1.75E+00		1.80E-01	4.34E-02	1.16E-03	1.16E-01
BP-46-SUR	Radium-228	1.75E+00		1.94E-01	4.34E-02	1.16E-03	1.16E-01
BP-47-SUR	Radium-228	1.91E+00		1.94E-01	3.76E-02	1.16E-03	1.16E-01
BP-48-SUR	Radium-228	1.93E+00		2.14E-01	4.88E-02	1.16E-03	1.16E-01
BP-49-SUR	Radium-228	1.87E+00		1.92E-01	3.76E-02	1.16E-03	1.16E-01
BP-50-SUR	Radium-228	1.84E+00		2.04E-01	4.53E-02	1.16E-03	1.16E-01
BP-51-SUR	Radium-228	1.67E+00		1.70E-01	3.56E-02	1.16E-03	1.16E-01
BP-52-SUR	Radium-228	1.52E+00		1.56E-01	3.48E-02	1.16E-03	1.16E-01
BP-53-SUR	Radium-228	1.50E+00		1.67E-01	4.52E-02	1.16E-03	1.16E-01
BP-54-SUR	Radium-228	1.37E+00		1.40E-01	3.27E-02	1.16E-03	1.16E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Radium-228	1.52E+00		1.55E-01	3.61E-02	1.16E-03	1.16E-01
BP-4-SUB	Radium-228	1.57E+00		1.74E-01	4.20E-02	1.16E-03	1.16E-01
BP-5-SUB	Radium-228	1.54E+00		1.71E-01	4.38E-02	1.16E-03	1.16E-01
BP-9-SUB	Radium-228	1.94E+00		1.97E-01	3.50E-02	1.16E-03	1.16E-01
BP-12-SUB	Radium-228	1.88E+00		2.08E-01	4.10E-02	1.16E-03	1.16E-01
BP-13-SUB	Radium-228	1.93E+00		1.97E-01	4.27E-02	1.16E-03	1.16E-01
BP-14-SUB	Radium-228	1.38E+00		1.53E-01	4.46E-02	1.16E-03	1.16E-01
BP-16-SUB	Radium-228	1.95E+00		1.98E-01	3.56E-02	1.16E-03	1.16E-01
BP-20-SUB	Radium-228	1.46E+00		1.62E-01	4.30E-02	1.16E-03	1.16E-01
BP-23-SUB	Radium-228	1.59E+00		1.62E-01	3.36E-02	1.16E-03	1.16E-01
BP-29-SUB	Radium-228	1.86E+00		4.25E-01	5.79E-01	1.16E-03	1.16E-01
BP-34-SUB	Radium-228	2.10E+00		2.31E-01	4.60E-02	1.16E-03	1.16E-01
BP-35-SUB	Radium-228	1.97E+00		2.00E-01	3.59E-02	1.16E-03	1.16E-01
BP-38-SUB	Radium-228	1.51E+00		1.68E-01	4.70E-02	1.16E-03	1.16E-01
BP-43-SUB	Radium-228	1.22E+00		1.31E-01	5.36E-02	1.16E-03	1.16E-01
BP-45-SUB	Radium-228	1.94E+00		2.15E-01	4.43E-02	1.16E-03	1.16E-01
BP-46-SUB	Radium-228	2.02E+00		2.08E-01	4.77E-02	1.16E-03	1.16E-01
BP-48-SUB	Radium-228	1.60E+00		1.78E-01	4.46E-02	1.16E-03	1.16E-01
BP-50-SUB	Radium-228	1.68E+00		1.71E-01	4.05E-02	1.16E-03	1.16E-01
BP-51-SUB	Radium-228	2.30E+00		2.53E-01	4.52E-02	1.16E-03	1.16E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.44 - Radon-220 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Radon-220	1.22E+00		2.16E-01	7.52E-02	7.74E+08	7.74E+10
LR-2-SUR	Radon-220	1.22E+00		2.14E-01	7.09E-02	7.74E+08	7.74E+10
LR-3-SUR	Radon-220	1.34E+00		2.37E-01	7.75E-02	7.74E+08	7.74E+10
LR-4-SUR	Radon-220	1.28E+00		2.26E-01	7.42E-02	7.74E+08	7.74E+10
LR-5-SUR	Radon-220	1.32E+00		2.32E-01	7.25E-02	7.74E+08	7.74E+10
LR-6-SUR	Radon-220	1.27E+00		2.24E-01	7.63E-02	7.74E+08	7.74E+10
LR-7-SUR	Radon-220	1.29E+00		2.26E-01	6.94E-02	7.74E+08	7.74E+10
LR-8-SUR	Radon-220	1.29E+00		2.24E-01	6.63E-02	7.74E+08	7.74E+10
LR-9-SUR	Radon-220	1.34E+00		2.33E-01	7.11E-02	7.74E+08	7.74E+10
LR-10-SUR	Radon-220	1.42E+00		2.64E-01	7.58E-02	7.74E+08	7.74E+10
LR-11-SUR	Radon-220	1.39E+00		2.63E-01	8.19E-02	7.74E+08	7.74E+10
LR-12-SUR	Radon-220	1.17E+00		2.04E-01	6.95E-02	7.74E+08	7.74E+10
LR-13-SUR	Radon-220	1.64E+00		2.96E-01	1.23E-01	7.74E+08	7.74E+10
LR-14-SUR	Radon-220	1.07E+00		1.86E-01	6.37E-02	7.74E+08	7.74E+10
LR-15-SUR	Radon-220	1.35E+00		2.45E-01	8.90E-02	7.74E+08	7.74E+10
LR-16-SUR	Radon-220	1.88E+00		3.42E-01	1.33E-01	7.74E+08	7.74E+10
LR-17-SUR	Radon-220	1.26E+00		2.18E-01	6.58E-02	7.74E+08	7.74E+10
LR-18-SUR	Radon-220	1.43E+00		2.51E-01	7.64E-02	7.74E+08	7.74E+10
LR-19-SUR	Radon-220	1.40E+00		2.42E-01	7.51E-02	7.74E+08	7.74E+10
LR-20-SUR	Radon-220	1.46E+00		2.54E-01	7.61E-02	7.74E+08	7.74E+10
LR-21-SUR	Radon-220	1.36E+00		2.34E-01	7.37E-02	7.74E+08	7.74E+10
LR-22-SUR	Radon-220	1.44E+00		2.46E-01	6.77E-02	7.74E+08	7.74E+10
LR-23-SUR	Radon-220	1.32E+00		2.34E-01	7.86E-02	7.74E+08	7.74E+10
LR-24-SUR	Radon-220	1.30E+00		2.19E-01	6.04E-02	7.74E+08	7.74E+10
LR-25-SUR	Radon-220	1.30E+00		2.29E-01	7.79E-02	7.74E+08	7.74E+10
LR-26-SUR	Radon-220	1.30E+00		2.30E-01	7.77E-02	7.74E+08	7.74E+10
LR-27-SUR	Radon-220	1.24E+00		2.16E-01	6.59E-02	7.74E+08	7.74E+10
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Radon-220	1.38E+00		2.38E-01	7.12E-02	7.74E+08	7.74E+10
LR-4-SUB	Radon-220	1.47E+00		2.52E-01	6.96E-02	7.74E+08	7.74E+10
LR-9-SUB	Radon-220	1.49E+00		2.55E-01	6.38E-02	7.74E+08	7.74E+10
LR-13-SUB	Radon-220	1.38E+00		2.45E-01	7.83E-02	7.74E+08	7.74E+10
LR-15-SUB	Radon-220	1.83E+00		3.34E-01	8.18E-02	7.74E+08	7.74E+10
LR-18-SUB	Radon-220	1.54E+00		2.89E-01	8.36E-02	7.74E+08	7.74E+10
LR-19-SUB	Radon-220	1.75E+00		3.26E-01	8.83E-02	7.74E+08	7.74E+10
LR-23-SUB	Radon-220	2.01E+00		3.70E-01	8.56E-02	7.74E+08	7.74E+10
LR-24-SUB	Radon-220	1.52E+00		2.80E-01	7.12E-02	7.74E+08	7.74E+10
LR-26-SUB	Radon-220	1.74E+00		3.21E-01	8.29E-02	7.74E+08	7.74E+10
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Radon-220	1.00E+00		1.78E-01	6.67E-02	7.74E+08	7.74E+10
RP-2-SUR	Radon-220	1.02E+00		1.80E-01	6.21E-02	7.74E+08	7.74E+10
RP-3-SUR	Radon-220	1.19E+00		2.18E-01	6.44E-02	7.74E+08	7.74E+10
RP-4-SUR	Radon-220	9.79E-01		1.77E-01	6.47E-02	7.74E+08	7.74E+10
RP-5-SUR	Radon-220	9.40E-01		1.64E-01	5.80E-02	7.74E+08	7.74E+10
RP-6-SUR	Radon-220	9.57E-01		1.77E-01	7.14E-02	7.74E+08	7.74E+10
RP-7-SUR	Radon-220	1.23E+00		2.33E-01	7.40E-02	7.74E+08	7.74E+10
RP-8-SUR	Radon-220	1.24E+00		2.35E-01	7.58E-02	7.74E+08	7.74E+10
RP-9-SUR	Radon-220	1.14E+00		1.87E-01	6.79E-02	7.74E+08	7.74E+10
RP-10-SUR	Radon-220	1.02E+00		1.80E-01	6.46E-02	7.74E+08	7.74E+10
RP-11-SUR	Radon-220	1.31E+00		2.50E-01	8.01E-02	7.74E+08	7.74E+10
RP-12-SUR	Radon-220	1.01E+00		1.77E-01	5.88E-02	7.74E+08	7.74E+10
RP-13-SUR	Radon-220	9.29E-01		1.69E-01	6.28E-02	7.74E+08	7.74E+10
RP-14-SUR	Radon-220	9.22E-01		1.69E-01	6.71E-02	7.74E+08	7.74E+10
RP-15-SUR	Radon-220	9.98E-01		1.71E-01	5.09E-02	7.74E+08	7.74E+10
RP-16-SUR	Radon-220	9.02E-01		1.60E-01	5.93E-02	7.74E+08	7.74E+10
RP-17-SUR	Radon-220	9.03E-01		1.61E-01	5.96E-02	7.74E+08	7.74E+10
RP-18-SUR	Radon-220	9.80E-01		1.73E-01	6.17E-02	7.74E+08	7.74E+10
RP-19-SUR	Radon-220	1.07E+00		1.87E-01	6.02E-02	7.74E+08	7.74E+10
RP-20-SUR	Radon-220	1.39E+00		2.65E-01	8.30E-02	7.74E+08	7.74E+10
RP-21-SUR	Radon-220	9.93E-01		1.74E-01	5.71E-02	7.74E+08	7.74E+10

Table 6.44 - Radon-220 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Radon-220	1.01E+00		1.80E-01	6.39E-02	7.74E+08	7.74E+10
RP-23-SUR	Radon-220	1.30E+00		2.45E-01	8.03E-02	7.74E+08	7.74E+10
RP-24-SUR	Radon-220	9.98E-01		1.79E-01	6.59E-02	7.74E+08	7.74E+10
RP-25-SUR	Radon-220	9.71E-01		1.73E-01	6.45E-02	7.74E+08	7.74E+10
RP-26-SUR	Radon-220	1.01E+00		1.76E-01	6.07E-02	7.74E+08	7.74E+10
RP-27-SUR	Radon-220	1.14E+00		2.00E-01	6.48E-02	7.74E+08	7.74E+10
RP-28-SUR	Radon-220	1.18E+00		2.06E-01	6.57E-02	7.74E+08	7.74E+10
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Radon-220	9.94E-01		1.82E-01	6.84E-02	7.74E+08	7.74E+10
RP-5-SUB	Radon-220	1.11E+00		1.94E-01	6.13E-02	7.74E+08	7.74E+10
RP-7-SUB	Radon-220	1.09E+00		1.86E-01	5.66E-02	7.74E+08	7.74E+10
RP-12-SUB	Radon-220	9.47E-01		1.74E-01	6.65E-02	7.74E+08	7.74E+10
RP-13-SUB	Radon-220	1.15E+00		2.02E-01	6.47E-02	7.74E+08	7.74E+10
RP-17-SUB	Radon-220	1.14E+00		2.03E-01	6.94E-02	7.74E+08	7.74E+10
RP-18-SUB	Radon-220	1.25E+00		2.19E-01	6.80E-02	7.74E+08	7.74E+10
RP-19-SUB	Radon-220	1.19E+00		2.06E-01	6.23E-02	7.74E+08	7.74E+10
RP-20-SUB	Radon-220	1.17E+00		2.04E-01	6.43E-02	7.74E+08	7.74E+10
RP-28-SUB	Radon-220	1.10E+00		1.98E-01	7.28E-02	7.74E+08	7.74E+10
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Radon-220	1.71E+00		2.93E-01	7.43E-02	7.74E+08	7.74E+10
BP-2-SUR	Radon-220	1.72E+00		2.94E-01	7.18E-02	7.74E+08	7.74E+10
BP-3-SUR	Radon-220	1.73E+00		3.00E-01	8.49E-02	7.74E+08	7.74E+10
BP-4-SUR	Radon-220	1.83E+00		3.14E-01	8.33E-02	7.74E+08	7.74E+10
BP-5-SUR	Radon-220	1.92E+00		3.24E-01	7.79E-02	7.74E+08	7.74E+10
BP-6-SUR	Radon-220	1.90E+00		3.15E-01	7.05E-02	7.74E+08	7.74E+10
BP-7-SUR	Radon-220	2.08E+00		3.55E-01	8.59E-02	7.74E+08	7.74E+10
BP-8-SUR	Radon-220	1.86E+00		3.22E-01	8.90E-02	7.74E+08	7.74E+10
BP-9-SUR	Radon-220	1.88E+00		3.20E-01	8.37E-02	7.74E+08	7.74E+10
BP-10-SUR	Radon-220	1.90E+00		3.22E-01	8.08E-02	7.74E+08	7.74E+10
BP-11-SUR	Radon-220	1.83E+00		3.09E-01	7.62E-02	7.74E+08	7.74E+10
BP-12-SUR	Radon-220	1.84E+00		3.15E-01	8.32E-02	7.74E+08	7.74E+10
BP-13-SUR	Radon-220	1.91E+00		2.99E-01	8.34E-02	7.74E+08	7.74E+10
BP-14-SUR	Radon-220	1.61E+00		2.75E-01	7.27E-02	7.74E+08	7.74E+10
BP-15-SUR	Radon-220	1.75E+00		3.03E-01	8.20E-02	7.74E+08	7.74E+10
BP-16-SUR	Radon-220	1.65E+00		2.81E-01	7.64E-02	7.74E+08	7.74E+10
BP-17-SUR	Radon-220	1.83E+00		3.10E-01	7.44E-02	7.74E+08	7.74E+10
BP-18-SUR	Radon-220	1.73E+00		2.98E-01	8.27E-02	7.74E+08	7.74E+10
BP-19-SUR	Radon-220	1.92E+00		3.04E-01	8.46E-02	7.74E+08	7.74E+10
BP-20-SUR	Radon-220	1.99E+00		3.38E-01	8.29E-02	7.74E+08	7.74E+10
BP-21-SUR	Radon-220	1.84E+00		3.19E-01	9.14E-02	7.74E+08	7.74E+10
BP-22-SUR	Radon-220	1.91E+00		3.01E-01	8.38E-02	7.74E+08	7.74E+10
BP-23-SUR	Radon-220	1.90E+00		3.03E-01	8.92E-02	7.74E+08	7.74E+10
BP-24-SUR	Radon-220	1.91E+00		3.02E-01	8.30E-02	7.74E+08	7.74E+10
BP-25-SUR	Radon-220	1.71E+00		2.70E-01	8.01E-02	7.74E+08	7.74E+10
BP-26-SUR	Radon-220	1.75E+00		2.83E-01	8.70E-02	7.74E+08	7.74E+10
BP-27-SUR	Radon-220	1.66E+00		2.65E-01	8.43E-02	7.74E+08	7.74E+10
BP-28-SUR	Radon-220	1.57E+00		2.58E-01	8.61E-02	7.74E+08	7.74E+10
BP-29-SUR	Radon-220	1.62E+00		2.60E-01	8.39E-02	7.74E+08	7.74E+10
BP-30-SUR	Radon-220	1.82E+00		3.34E-01	8.00E-02	7.74E+08	7.74E+10
BP-31-SUR	Radon-220	1.76E+00		2.82E-01	9.03E-02	7.74E+08	7.74E+10
BP-32-SUR	Radon-220	1.85E+00		2.90E-01	8.39E-02	7.74E+08	7.74E+10
BP-33-SUR	Radon-220	1.97E+00		3.65E-01	9.13E-02	7.74E+08	7.74E+10
BP-34-SUR	Radon-220	1.93E+00		3.12E-01	9.57E-02	7.74E+08	7.74E+10
BP-35-SUR	Radon-220	1.78E+00		3.23E-01	7.20E-02	7.74E+08	7.74E+10
BP-36-SUR	Radon-220	1.73E+00		3.15E-01	7.43E-02	7.74E+08	7.74E+10
BP-37-SUR	Radon-220	1.67E+00		3.10E-01	8.66E-02	7.74E+08	7.74E+10
BP-38-SUR	Radon-220	1.57E+00		2.93E-01	8.12E-02	7.74E+08	7.74E+10
BP-39-SUR	Radon-220	1.53E+00		2.81E-01	7.22E-02	7.74E+08	7.74E+10
BP-40-SUR	Radon-220	1.54E+00		2.87E-01	7.52E-02	7.74E+08	7.74E+10
BP-41-SUR	Radon-220	1.72E+00		2.73E-01	8.16E-02	7.74E+08	7.74E+10
BP-42-SUR	Radon-220	1.68E+00		3.14E-01	8.40E-02	7.74E+08	7.74E+10

Table 6.44 - Radon-220 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Radon-220	1.74E+00		2.77E-01	8.28E-02	7.74E+08	7.74E+10
BP-44-SUR	Radon-220	1.68E+00		3.14E-01	8.71E-02	7.74E+08	7.74E+10
BP-45-SUR	Radon-220	1.67E+00		2.63E-01	7.64E-02	7.74E+08	7.74E+10
BP-46-SUR	Radon-220	1.74E+00		3.16E-01	7.59E-02	7.74E+08	7.74E+10
BP-47-SUR	Radon-220	1.92E+00		2.99E-01	7.59E-02	7.74E+08	7.74E+10
BP-48-SUR	Radon-220	1.93E+00		3.55E-01	9.01E-02	7.74E+08	7.74E+10
BP-49-SUR	Radon-220	1.91E+00		3.01E-01	7.81E-02	7.74E+08	7.74E+10
BP-50-SUR	Radon-220	1.76E+00		3.24E-01	8.29E-02	7.74E+08	7.74E+10
BP-51-SUR	Radon-220	1.73E+00		2.69E-01	6.54E-02	7.74E+08	7.74E+10
BP-52-SUR	Radon-220	1.48E+00		2.40E-01	7.39E-02	7.74E+08	7.74E+10
BP-53-SUR	Radon-220	1.46E+00		2.71E-01	8.06E-02	7.74E+08	7.74E+10
BP-54-SUR	Radon-220	1.34E+00		2.10E-01	5.92E-02	7.74E+08	7.74E+10
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Radon-220	1.54E+00		2.44E-01	7.20E-02	7.74E+08	7.74E+10
BP-4-SUB	Radon-220	1.67E+00		3.15E-01	8.50E-02	7.74E+08	7.74E+10
BP-5-SUB	Radon-220	1.56E+00		2.91E-01	8.36E-02	7.74E+08	7.74E+10
BP-9-SUB	Radon-220	1.89E+00		2.91E-01	6.75E-02	7.74E+08	7.74E+10
BP-12-SUB	Radon-220	1.80E+00		3.28E-01	7.41E-02	7.74E+08	7.74E+10
BP-13-SUB	Radon-220	1.98E+00		3.13E-01	8.17E-02	7.74E+08	7.74E+10
BP-14-SUB	Radon-220	1.37E+00		2.59E-01	8.18E-02	7.74E+08	7.74E+10
BP-16-SUB	Radon-220	1.94E+00		2.98E-01	6.13E-02	7.74E+08	7.74E+10
BP-20-SUB	Radon-220	1.45E+00		2.73E-01	8.31E-02	7.74E+08	7.74E+10
BP-23-SUB	Radon-220	1.64E+00		2.58E-01	6.81E-02	7.74E+08	7.74E+10
BP-29-SUB	Radon-220	1.89E+00		9.25E-01	6.90E-01	7.74E+08	7.74E+10
BP-34-SUB	Radon-220	2.12E+00		3.86E-01	8.63E-02	7.74E+08	7.74E+10
BP-35-SUB	Radon-220	1.99E+00		3.07E-01	6.20E-02	7.74E+08	7.74E+10
BP-38-SUB	Radon-220	1.51E+00		2.81E-01	8.14E-02	7.74E+08	7.74E+10
BP-43-SUB	Radon-220	1.37E+00		2.28E-01	8.97E-02	7.74E+08	7.74E+10
BP-45-SUB	Radon-220	1.92E+00		3.53E-01	8.30E-02	7.74E+08	7.74E+10
BP-46-SUB	Radon-220	2.10E+00		3.30E-01	9.01E-02	7.74E+08	7.74E+10
BP-48-SUB	Radon-220	1.59E+00		2.94E-01	7.80E-02	7.74E+08	7.74E+10
BP-50-SUB	Radon-220	1.69E+00		2.72E-01	8.26E-02	7.74E+08	7.74E+10
BP-51-SUB	Radon-220	2.27E+00		4.09E-01	8.46E-02	7.74E+08	7.74E+10

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.45 - Radon-222 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Radon-222	1.19E+00		1.89E-01	2.35E-02	1.27E+05	1.27E+07
LR-2-SUR	Radon-222	1.19E+00		1.88E-01	2.41E-02	1.27E+05	1.27E+07
LR-3-SUR	Radon-222	1.23E+00		1.95E-01	2.59E-02	1.27E+05	1.27E+07
LR-4-SUR	Radon-222	1.12E+00		1.78E-01	2.55E-02	1.27E+05	1.27E+07
LR-5-SUR	Radon-222	1.25E+00		1.97E-01	2.45E-02	1.27E+05	1.27E+07
LR-6-SUR	Radon-222	1.25E+00		1.99E-01	2.60E-02	1.27E+05	1.27E+07
LR-7-SUR	Radon-222	1.09E+00		1.74E-01	2.48E-02	1.27E+05	1.27E+07
LR-8-SUR	Radon-222	1.13E+00		1.80E-01	2.49E-02	1.27E+05	1.27E+07
LR-9-SUR	Radon-222	1.16E+00		1.85E-01	2.71E-02	1.27E+05	1.27E+07
LR-10-SUR	Radon-222	1.04E+00		1.74E-01	2.43E-02	1.27E+05	1.27E+07
LR-11-SUR	Radon-222	1.08E+00		1.81E-01	2.57E-02	1.27E+05	1.27E+07
LR-12-SUR	Radon-222	1.09E+00		1.74E-01	2.55E-02	1.27E+05	1.27E+07
LR-13-SUR	Radon-222	1.02E+00		1.63E-01	2.27E-02	1.27E+05	1.27E+07
LR-14-SUR	Radon-222	9.88E-01		1.58E-01	2.51E-02	1.27E+05	1.27E+07
LR-15-SUR	Radon-222	1.11E+00		1.77E-01	2.68E-02	1.27E+05	1.27E+07
LR-16-SUR	Radon-222	1.04E+00		1.65E-01	2.44E-02	1.27E+05	1.27E+07
LR-17-SUR	Radon-222	9.92E-01		1.58E-01	2.33E-02	1.27E+05	1.27E+07
LR-18-SUR	Radon-222	1.14E+00		1.81E-01	2.31E-02	1.27E+05	1.27E+07
LR-19-SUR	Radon-222	1.24E+00		1.97E-01	2.60E-02	1.27E+05	1.27E+07
LR-20-SUR	Radon-222	1.21E+00		1.92E-01	2.72E-02	1.27E+05	1.27E+07
LR-21-SUR	Radon-222	1.18E+00		1.88E-01	2.69E-02	1.27E+05	1.27E+07
LR-22-SUR	Radon-222	1.17E+00		1.87E-01	2.70E-02	1.27E+05	1.27E+07
LR-23-SUR	Radon-222	1.14E+00		1.82E-01	2.53E-02	1.27E+05	1.27E+07
LR-24-SUR	Radon-222	1.14E+00		1.82E-01	2.51E-02	1.27E+05	1.27E+07
LR-25-SUR	Radon-222	1.21E+00		1.93E-01	2.68E-02	1.27E+05	1.27E+07
LR-26-SUR	Radon-222	1.19E+00		1.89E-01	2.61E-02	1.27E+05	1.27E+07
LR-27-SUR	Radon-222	1.13E+00		1.80E-01	2.39E-02	1.27E+05	1.27E+07
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Radon-222	1.20E+00		1.90E-01	2.50E-02	1.27E+05	1.27E+07
LR-4-SUB	Radon-222	1.07E+00		1.70E-01	2.27E-02	1.27E+05	1.27E+07
LR-9-SUB	Radon-222	9.71E-01		1.55E-01	2.47E-02	1.27E+05	1.27E+07
LR-13-SUB	Radon-222	1.14E+00		1.82E-01	2.47E-02	1.27E+05	1.27E+07
LR-15-SUB	Radon-222	1.15E+00		1.93E-01	2.71E-02	1.27E+05	1.27E+07
LR-18-SUB	Radon-222	1.07E+00		1.80E-01	2.62E-02	1.27E+05	1.27E+07
LR-19-SUB	Radon-222	1.17E+00		1.96E-01	2.47E-02	1.27E+05	1.27E+07
LR-23-SUB	Radon-222	1.24E+00		2.07E-01	2.35E-02	1.27E+05	1.27E+07
LR-24-SUB	Radon-222	1.10E+00		1.85E-01	2.37E-02	1.27E+05	1.27E+07
LR-26-SUB	Radon-222	9.77E-01		1.64E-01	2.50E-02	1.27E+05	1.27E+07
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Radon-222	7.03E-01		1.13E-01	1.96E-02	1.27E+05	1.27E+07
RP-2-SUR	Radon-222	7.28E-01		1.17E-01	2.25E-02	1.27E+05	1.27E+07
RP-3-SUR	Radon-222	6.47E-01		1.09E-01	1.95E-02	1.27E+05	1.27E+07
RP-4-SUR	Radon-222	7.16E-01		1.15E-01	2.08E-02	1.27E+05	1.27E+07
RP-5-SUR	Radon-222	7.61E-01		1.22E-01	2.13E-02	1.27E+05	1.27E+07
RP-6-SUR	Radon-222	7.81E-01		1.25E-01	2.12E-02	1.27E+05	1.27E+07
RP-7-SUR	Radon-222	7.21E-01		1.22E-01	2.02E-02	1.27E+05	1.27E+07
RP-8-SUR	Radon-222	7.66E-01		1.29E-01	2.01E-02	1.27E+05	1.27E+07
RP-9-SUR	Radon-222	7.46E-01		1.10E-01	1.68E-02	1.27E+05	1.27E+07
RP-10-SUR	Radon-222	8.60E-01		1.36E-01	1.80E-02	1.27E+05	1.27E+07
RP-11-SUR	Radon-222	7.60E-01		1.28E-01	2.09E-02	1.27E+05	1.27E+07
RP-12-SUR	Radon-222	6.98E-01		1.12E-01	1.99E-02	1.27E+05	1.27E+07
RP-13-SUR	Radon-222	7.00E-01		1.12E-01	1.96E-02	1.27E+05	1.27E+07
RP-14-SUR	Radon-222	7.70E-01		1.23E-01	2.06E-02	1.27E+05	1.27E+07
RP-15-SUR	Radon-222	7.75E-01		1.24E-01	1.92E-02	1.27E+05	1.27E+07
RP-16-SUR	Radon-222	7.64E-01		1.22E-01	2.03E-02	1.27E+05	1.27E+07
RP-17-SUR	Radon-222	7.92E-01		1.26E-01	1.96E-02	1.27E+05	1.27E+07
RP-18-SUR	Radon-222	8.51E-01		1.36E-01	2.06E-02	1.27E+05	1.27E+07
RP-19-SUR	Radon-222	8.56E-01		1.36E-01	2.01E-02	1.27E+05	1.27E+07
RP-20-SUR	Radon-222	7.61E-01		1.28E-01	2.17E-02	1.27E+05	1.27E+07
RP-21-SUR	Radon-222	6.92E-01		1.11E-01	1.93E-02	1.27E+05	1.27E+07

Table 6.45 - Radon-222 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Radon-222	7.11E-01		1.14E-01	1.90E-02	1.27E+05	1.27E+07
RP-23-SUR	Radon-222	7.27E-01		1.23E-01	1.98E-02	1.27E+05	1.27E+07
RP-24-SUR	Radon-222	7.58E-01		1.21E-01	2.03E-02	1.27E+05	1.27E+07
RP-25-SUR	Radon-222	8.13E-01		1.30E-01	2.18E-02	1.27E+05	1.27E+07
RP-26-SUR	Radon-222	8.13E-01		1.31E-01	2.29E-02	1.27E+05	1.27E+07
RP-27-SUR	Radon-222	8.44E-01		1.35E-01	2.28E-02	1.27E+05	1.27E+07
RP-28-SUR	Radon-222	8.36E-01		1.34E-01	2.18E-02	1.27E+05	1.27E+07
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Radon-222	6.71E-01		1.08E-01	2.05E-02	1.27E+05	1.27E+07
RP-5-SUB	Radon-222	7.94E-01		1.28E-01	2.23E-02	1.27E+05	1.27E+07
RP-7-SUB	Radon-222	8.04E-01		1.29E-01	2.26E-02	1.27E+05	1.27E+07
RP-12-SUB	Radon-222	6.72E-01		1.08E-01	1.92E-02	1.27E+05	1.27E+07
RP-13-SUB	Radon-222	8.04E-01		1.28E-01	2.04E-02	1.27E+05	1.27E+07
RP-17-SUB	Radon-222	8.29E-01		1.33E-01	2.27E-02	1.27E+05	1.27E+07
RP-18-SUB	Radon-222	8.78E-01		1.41E-01	2.29E-02	1.27E+05	1.27E+07
RP-19-SUB	Radon-222	8.45E-01		1.35E-01	2.07E-02	1.27E+05	1.27E+07
RP-20-SUB	Radon-222	8.31E-01		1.33E-01	2.20E-02	1.27E+05	1.27E+07
RP-28-SUB	Radon-222	8.07E-01		1.29E-01	2.15E-02	1.27E+05	1.27E+07
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Radon-222	1.41E+00		2.23E-01	2.52E-02	1.27E+05	1.27E+07
BP-2-SUR	Radon-222	1.44E+00		2.29E-01	2.78E-02	1.27E+05	1.27E+07
BP-3-SUR	Radon-222	1.41E+00		2.23E-01	2.60E-02	1.27E+05	1.27E+07
BP-4-SUR	Radon-222	1.57E+00		2.48E-01	2.77E-02	1.27E+05	1.27E+07
BP-5-SUR	Radon-222	1.57E+00		2.48E-01	2.72E-02	1.27E+05	1.27E+07
BP-6-SUR	Radon-222	1.60E+00		2.53E-01	2.77E-02	1.27E+05	1.27E+07
BP-7-SUR	Radon-222	1.61E+00		2.54E-01	2.72E-02	1.27E+05	1.27E+07
BP-8-SUR	Radon-222	1.60E+00		2.52E-01	2.72E-02	1.27E+05	1.27E+07
BP-9-SUR	Radon-222	1.60E+00		2.54E-01	2.78E-02	1.27E+05	1.27E+07
BP-10-SUR	Radon-222	1.58E+00		2.51E-01	2.77E-02	1.27E+05	1.27E+07
BP-11-SUR	Radon-222	1.55E+00		2.45E-01	2.78E-02	1.27E+05	1.27E+07
BP-12-SUR	Radon-222	1.50E+00		2.38E-01	2.63E-02	1.27E+05	1.27E+07
BP-13-SUR	Radon-222	1.57E+00		2.31E-01	2.73E-02	1.27E+05	1.27E+07
BP-14-SUR	Radon-222	1.34E+00		2.12E-01	2.55E-02	1.27E+05	1.27E+07
BP-15-SUR	Radon-222	1.41E+00		2.23E-01	2.75E-02	1.27E+05	1.27E+07
BP-16-SUR	Radon-222	1.41E+00		2.24E-01	2.65E-02	1.27E+05	1.27E+07
BP-17-SUR	Radon-222	1.43E+00		2.27E-01	2.79E-02	1.27E+05	1.27E+07
BP-18-SUR	Radon-222	1.42E+00		2.24E-01	2.62E-02	1.27E+05	1.27E+07
BP-19-SUR	Radon-222	1.48E+00		2.17E-01	2.77E-02	1.27E+05	1.27E+07
BP-20-SUR	Radon-222	1.56E+00		2.47E-01	2.77E-02	1.27E+05	1.27E+07
BP-21-SUR	Radon-222	1.54E+00		2.43E-01	2.68E-02	1.27E+05	1.27E+07
BP-22-SUR	Radon-222	1.53E+00		2.25E-01	2.88E-02	1.27E+05	1.27E+07
BP-23-SUR	Radon-222	1.51E+00		2.22E-01	2.95E-02	1.27E+05	1.27E+07
BP-24-SUR	Radon-222	1.50E+00		2.21E-01	2.85E-02	1.27E+05	1.27E+07
BP-25-SUR	Radon-222	1.42E+00		2.09E-01	2.63E-02	1.27E+05	1.27E+07
BP-26-SUR	Radon-222	1.35E+00		1.99E-01	2.80E-02	1.27E+05	1.27E+07
BP-27-SUR	Radon-222	1.38E+00		2.03E-01	2.72E-02	1.27E+05	1.27E+07
BP-28-SUR	Radon-222	1.33E+00		1.96E-01	2.78E-02	1.27E+05	1.27E+07
BP-29-SUR	Radon-222	1.29E+00		1.89E-01	2.65E-02	1.27E+05	1.27E+07
BP-30-SUR	Radon-222	1.41E+00		2.36E-01	2.59E-02	1.27E+05	1.27E+07
BP-31-SUR	Radon-222	1.40E+00		2.06E-01	2.81E-02	1.27E+05	1.27E+07
BP-32-SUR	Radon-222	1.44E+00		2.11E-01	2.83E-02	1.27E+05	1.27E+07
BP-33-SUR	Radon-222	1.43E+00		2.38E-01	2.58E-02	1.27E+05	1.27E+07
BP-34-SUR	Radon-222	1.46E+00		2.14E-01	2.58E-02	1.27E+05	1.27E+07
BP-35-SUR	Radon-222	1.26E+00		2.10E-01	2.65E-02	1.27E+05	1.27E+07
BP-36-SUR	Radon-222	1.25E+00		2.09E-01	2.45E-02	1.27E+05	1.27E+07
BP-37-SUR	Radon-222	1.19E+00		2.00E-01	2.55E-02	1.27E+05	1.27E+07
BP-38-SUR	Radon-222	1.07E+00		1.79E-01	2.53E-02	1.27E+05	1.27E+07
BP-39-SUR	Radon-222	1.04E+00		1.75E-01	2.35E-02	1.27E+05	1.27E+07
BP-40-SUR	Radon-222	1.15E+00		1.92E-01	2.58E-02	1.27E+05	1.27E+07
BP-41-SUR	Radon-222	1.22E+00		1.80E-01	2.70E-02	1.27E+05	1.27E+07
BP-42-SUR	Radon-222	1.21E+00		2.02E-01	2.51E-02	1.27E+05	1.27E+07

Table 6.45 - Radon-222 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Radon-222	1.22E+00		1.80E-01	2.59E-02	1.27E+05	1.27E+07
BP-44-SUR	Radon-222	1.21E+00		2.02E-01	2.46E-02	1.27E+05	1.27E+07
BP-45-SUR	Radon-222	1.18E+00		1.74E-01	2.59E-02	1.27E+05	1.27E+07
BP-46-SUR	Radon-222	1.17E+00		1.96E-01	2.65E-02	1.27E+05	1.27E+07
BP-47-SUR	Radon-222	1.36E+00		1.99E-01	2.34E-02	1.27E+05	1.27E+07
BP-48-SUR	Radon-222	1.30E+00		2.18E-01	2.80E-02	1.27E+05	1.27E+07
BP-49-SUR	Radon-222	1.25E+00		1.83E-01	2.37E-02	1.27E+05	1.27E+07
BP-50-SUR	Radon-222	1.22E+00		2.04E-01	2.68E-02	1.27E+05	1.27E+07
BP-51-SUR	Radon-222	1.23E+00		1.80E-01	2.08E-02	1.27E+05	1.27E+07
BP-52-SUR	Radon-222	1.07E+00		1.57E-01	2.19E-02	1.27E+05	1.27E+07
BP-53-SUR	Radon-222	9.98E-01		1.68E-01	2.53E-02	1.27E+05	1.27E+07
BP-54-SUR	Radon-222	9.29E-01		1.37E-01	1.91E-02	1.27E+05	1.27E+07
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Radon-222	9.69E-01		1.43E-01	2.20E-02	1.27E+05	1.27E+07
BP-4-SUB	Radon-222	1.02E+00		1.71E-01	2.48E-02	1.27E+05	1.27E+07
BP-5-SUB	Radon-222	1.02E+00		1.71E-01	2.43E-02	1.27E+05	1.27E+07
BP-9-SUB	Radon-222	1.09E+00		1.60E-01	2.12E-02	1.27E+05	1.27E+07
BP-12-SUB	Radon-222	1.17E+00		1.95E-01	2.38E-02	1.27E+05	1.27E+07
BP-13-SUB	Radon-222	1.23E+00		1.81E-01	2.52E-02	1.27E+05	1.27E+07
BP-14-SUB	Radon-222	1.03E+00		1.73E-01	2.49E-02	1.27E+05	1.27E+07
BP-16-SUB	Radon-222	1.16E+00		1.70E-01	2.23E-02	1.27E+05	1.27E+07
BP-20-SUB	Radon-222	9.04E-01		1.52E-01	2.45E-02	1.27E+05	1.27E+07
BP-23-SUB	Radon-222	1.02E+00		1.49E-01	2.02E-02	1.27E+05	1.27E+07
BP-29-SUB	Radon-222	9.93E-01		3.82E-01	1.85E-01	1.27E+05	1.27E+07
BP-34-SUB	Radon-222	1.22E+00		2.04E-01	2.64E-02	1.27E+05	1.27E+07
BP-35-SUB	Radon-222	1.15E+00		1.69E-01	2.22E-02	1.27E+05	1.27E+07
BP-38-SUB	Radon-222	9.72E-01		1.64E-01	2.79E-02	1.27E+05	1.27E+07
BP-43-SUB	Radon-222	1.06E+00		1.57E-01	2.79E-02	1.27E+05	1.27E+07
BP-45-SUB	Radon-222	1.12E+00		1.87E-01	2.58E-02	1.27E+05	1.27E+07
BP-46-SUB	Radon-222	1.19E+00		1.76E-01	2.97E-02	1.27E+05	1.27E+07
BP-48-SUB	Radon-222	9.34E-01		1.57E-01	2.44E-02	1.27E+05	1.27E+07
BP-50-SUB	Radon-222	1.03E+00		1.52E-01	2.48E-02	1.27E+05	1.27E+07
BP-51-SUB	Radon-222	1.32E+00		2.20E-01	2.64E-02	1.27E+05	1.27E+07

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.46 - Sodium-22 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Sodium-22	5.70E-03		4.45E-03	7.21E-03	8.52E-02	8.52E+00
LR-2-SUR	Sodium-22	-1.10E-02	RU	6.40E-03	1.03E-02	8.52E-02	8.52E+00
LR-3-SUR	Sodium-22	9.13E-03		8.19E-03	7.98E-03	8.52E-02	8.52E+00
LR-4-SUR	Sodium-22	-8.71E-03	UL	6.22E-03	1.01E-02	8.52E-02	8.52E+00
LR-5-SUR	Sodium-22	-4.71E-04	U	7.84E-03	1.30E-02	8.52E-02	8.52E+00
LR-6-SUR	Sodium-22	-4.36E-03	U	6.53E-03	1.08E-02	8.52E-02	8.52E+00
LR-7-SUR	Sodium-22	5.60E-03		5.10E-03	8.31E-03	8.52E-02	8.52E+00
LR-8-SUR	Sodium-22	-5.72E-06	U	5.69E-03	9.48E-03	8.52E-02	8.52E+00
LR-9-SUR	Sodium-22	-5.22E-03	U	6.28E-03	1.03E-02	8.52E-02	8.52E+00
LR-10-SUR	Sodium-22	-3.43E-03	U	7.93E-03	1.19E-02	8.52E-02	8.52E+00
LR-11-SUR	Sodium-22	-3.13E-04	U	2.43E-02	1.19E-02	8.52E-02	8.52E+00
LR-12-SUR	Sodium-22	-2.11E-03	U	1.05E-02	9.11E-03	8.52E-02	8.52E+00
LR-13-SUR	Sodium-22	-6.52E-03	U	7.44E-03	1.00E-02	8.52E-02	8.52E+00
LR-14-SUR	Sodium-22	-6.01E-03	U	7.02E-03	9.34E-03	8.52E-02	8.52E+00
LR-15-SUR	Sodium-22	-5.93E-03	U	8.16E-03	1.07E-02	8.52E-02	8.52E+00
LR-16-SUR	Sodium-22	3.86E-02		4.75E-03	9.63E-03	8.52E-02	8.52E+00
LR-17-SUR	Sodium-22	-4.93E-04	U	1.01E-01	9.02E-03	8.52E-02	8.52E+00
LR-18-SUR	Sodium-22	-3.77E-03	U	8.66E-03	1.00E-02	8.52E-02	8.52E+00
LR-19-SUR	Sodium-22	-7.05E-03	UL	6.52E-03	1.06E-02	8.52E-02	8.52E+00
LR-20-SUR	Sodium-22	-8.40E-03	UL	7.71E-03	1.06E-02	8.52E-02	8.52E+00
LR-21-SUR	Sodium-22	-3.30E-03	U	6.35E-03	1.05E-02	8.52E-02	8.52E+00
LR-22-SUR	Sodium-22	9.54E-03		4.58E-03	7.16E-03	8.52E-02	8.52E+00
LR-23-SUR	Sodium-22	-5.51E-03	U	6.08E-03	9.96E-03	8.52E-02	8.52E+00
LR-24-SUR	Sodium-22	-5.07E-03	U	5.91E-03	9.69E-03	8.52E-02	8.52E+00
LR-25-SUR	Sodium-22	-9.47E-03	UL	6.42E-03	1.04E-02	8.52E-02	8.52E+00
LR-26-SUR	Sodium-22	-7.39E-03	UL	6.50E-03	1.06E-02	8.52E-02	8.52E+00
LR-27-SUR	Sodium-22	-4.24E-03	U	6.42E-03	1.06E-02	8.52E-02	8.52E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Sodium-22	-8.28E-03	UL	6.35E-03	1.03E-02	8.52E-02	8.52E+00
LR-4-SUB	Sodium-22	2.17E-03	U	4.05E-03	6.69E-03	8.52E-02	8.52E+00
LR-9-SUB	Sodium-22	5.55E-03		4.09E-03	6.60E-03	8.52E-02	8.52E+00
LR-13-SUB	Sodium-22	-1.22E-04	U	7.86E-03	1.31E-02	8.52E-02	8.52E+00
LR-15-SUB	Sodium-22	-1.55E-03	U	9.96E-03	1.31E-02	8.52E-02	8.52E+00
LR-18-SUB	Sodium-22	9.38E-06	U	5.78E-03	9.65E-03	8.52E-02	8.52E+00
LR-19-SUB	Sodium-22	-2.79E-03	U	8.06E-03	1.19E-02	8.52E-02	8.52E+00
LR-23-SUB	Sodium-22	-7.01E-03	U	7.29E-03	1.19E-02	8.52E-02	8.52E+00
LR-24-SUB	Sodium-22	-9.14E-03	UL	7.22E-03	1.07E-02	8.52E-02	8.52E+00
LR-26-SUB	Sodium-22	-4.10E-04	U	1.64E-02	1.34E-02	8.52E-02	8.52E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Sodium-22	9.73E-04	U	5.36E-03	8.91E-03	8.52E-02	8.52E+00
RP-2-SUR	Sodium-22	-3.03E-03	U	8.01E-03	9.33E-03	8.52E-02	8.52E+00
RP-3-SUR	Sodium-22	-2.71E-03	U	6.25E-03	1.03E-02	8.52E-02	8.52E+00
RP-4-SUR	Sodium-22	-1.05E-04	U	7.52E-03	8.25E-03	8.52E-02	8.52E+00
RP-5-SUR	Sodium-22	-5.89E-03	U	6.68E-03	9.21E-03	8.52E-02	8.52E+00
RP-6-SUR	Sodium-22	-5.49E-03	U	6.95E-03	9.42E-03	8.52E-02	8.52E+00
RP-7-SUR	Sodium-22	8.37E-03		6.86E-03	7.21E-03	8.52E-02	8.52E+00
RP-8-SUR	Sodium-22	-1.32E-04	U	7.89E-03	1.31E-02	8.52E-02	8.52E+00
RP-9-SUR	Sodium-22	-4.17E-04	U	5.36E-03	8.91E-03	8.52E-02	8.52E+00
RP-10-SUR	Sodium-22	-7.11E-03	UL	6.86E-03	9.69E-03	8.52E-02	8.52E+00
RP-11-SUR	Sodium-22	-5.86E-03	U	6.33E-03	1.04E-02	8.52E-02	8.52E+00
RP-12-SUR	Sodium-22	0.00E+00	U	5.13E-03	8.56E-03	8.52E-02	8.52E+00
RP-13-SUR	Sodium-22	-1.30E-03	U	1.04E-02	8.09E-03	8.52E-02	8.52E+00
RP-14-SUR	Sodium-22	-5.47E-03	U	6.13E-03	8.43E-03	8.52E-02	8.52E+00
RP-15-SUR	Sodium-22	-6.70E-03	UL	6.23E-03	8.77E-03	8.52E-02	8.52E+00
RP-16-SUR	Sodium-22	-1.86E-04	U	1.18E-02	8.66E-03	8.52E-02	8.52E+00
RP-17-SUR	Sodium-22	-4.30E-04	U	8.39E-02	8.89E-03	8.52E-02	8.52E+00
RP-18-SUR	Sodium-22	-6.21E-04	U	5.42E-02	8.79E-03	8.52E-02	8.52E+00
RP-19-SUR	Sodium-22	2.69E-03	U	3.96E-03	6.53E-03	8.52E-02	8.52E+00
RP-20-SUR	Sodium-22	-4.72E-03	U	9.06E-03	1.08E-02	8.52E-02	8.52E+00
RP-21-SUR	Sodium-22	-3.98E-04	U	1.96E-02	7.86E-03	8.52E-02	8.52E+00

Table 6.46 - Sodium-22 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Sodium-22	-3.35E-03	U	8.26E-03	9.22E-03	8.52E-02	8.52E+00
RP-23-SUR	Sodium-22	-5.33E-03	U	6.92E-03	1.14E-02	8.52E-02	8.52E+00
RP-24-SUR	Sodium-22	-5.03E-04	U	4.90E-03	8.16E-03	8.52E-02	8.52E+00
RP-25-SUR	Sodium-22	7.01E-03		4.29E-03	6.85E-03	8.52E-02	8.52E+00
RP-26-SUR	Sodium-22	2.54E-04	U	5.30E-03	8.82E-03	8.52E-02	8.52E+00
RP-27-SUR	Sodium-22	-4.63E-03	U	5.98E-03	9.82E-03	8.52E-02	8.52E+00
RP-28-SUR	Sodium-22	-4.39E-05	U	5.39E-03	8.98E-03	8.52E-02	8.52E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Sodium-22	-3.47E-03	U	5.25E-03	8.65E-03	8.52E-02	8.52E+00
RP-5-SUB	Sodium-22	4.83E-03		4.56E-03	7.45E-03	8.52E-02	8.52E+00
RP-7-SUB	Sodium-22	0.00E+00	U	5.67E-03	9.47E-03	8.52E-02	8.52E+00
RP-12-SUB	Sodium-22	-2.53E-03	U	7.71E-03	8.17E-03	8.52E-02	8.52E+00
RP-13-SUB	Sodium-22	-3.99E-04	U	3.10E-02	1.12E-02	8.52E-02	8.52E+00
RP-17-SUB	Sodium-22	-6.98E-03	UL	6.60E-03	9.25E-03	8.52E-02	8.52E+00
RP-18-SUB	Sodium-22	-5.46E-04	U	6.91E-03	1.15E-02	8.52E-02	8.52E+00
RP-19-SUB	Sodium-22	-1.06E-04	U	6.76E-03	1.12E-02	8.52E-02	8.52E+00
RP-20-SUB	Sodium-22	-6.14E-03	UL	5.51E-03	8.98E-03	8.52E-02	8.52E+00
RP-28-SUB	Sodium-22	-4.33E-03	U	5.67E-03	9.32E-03	8.52E-02	8.52E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Sodium-22	-2.87E-04	U	9.24E-02	9.82E-03	8.52E-02	8.52E+00
BP-2-SUR	Sodium-22	6.82E-04	U	5.69E-03	9.48E-03	8.52E-02	8.52E+00
BP-3-SUR	Sodium-22	-9.46E-03	UL	6.45E-03	9.84E-03	8.52E-02	8.52E+00
BP-4-SUR	Sodium-22	0.00E+00	U	6.02E-03	1.00E-02	8.52E-02	8.52E+00
BP-5-SUR	Sodium-22	-1.52E-04	U	2.28E-02	9.95E-03	8.52E-02	8.52E+00
BP-6-SUR	Sodium-22	-8.33E-03	UL	6.73E-03	1.03E-02	8.52E-02	8.52E+00
BP-7-SUR	Sodium-22	0.00E+00	U	4.86E-03	8.12E-03	8.52E-02	8.52E+00
BP-8-SUR	Sodium-22	-9.78E-03	RU	6.30E-03	1.01E-02	8.52E-02	8.52E+00
BP-9-SUR	Sodium-22	-9.86E-03	RU	6.06E-03	9.71E-03	8.52E-02	8.52E+00
BP-10-SUR	Sodium-22	-2.54E-04	U	6.47E-03	1.02E-02	8.52E-02	8.52E+00
BP-11-SUR	Sodium-22	-5.82E-03	U	6.04E-03	9.85E-03	8.52E-02	8.52E+00
BP-12-SUR	Sodium-22	-4.15E-03	U	6.35E-03	1.04E-02	8.52E-02	8.52E+00
BP-13-SUR	Sodium-22	2.59E-04	U	8.47E-03	1.41E-02	8.52E-02	8.52E+00
BP-14-SUR	Sodium-22	-4.41E-04	U	4.74E-03	7.65E-03	8.52E-02	8.52E+00
BP-15-SUR	Sodium-22	-1.15E-03	U	5.66E-03	9.28E-03	8.52E-02	8.52E+00
BP-16-SUR	Sodium-22	-9.30E-03	RU	6.09E-03	9.79E-03	8.52E-02	8.52E+00
BP-17-SUR	Sodium-22	3.30E-03	U	4.17E-03	6.85E-03	8.52E-02	8.52E+00
BP-18-SUR	Sodium-22	-1.99E-03	U	5.87E-03	9.29E-03	8.52E-02	8.52E+00
BP-19-SUR	Sodium-22	6.47E-03	U	1.12E-02	1.04E-02	8.52E-02	8.52E+00
BP-20-SUR	Sodium-22	2.02E-03	U	4.56E-03	7.55E-03	8.52E-02	8.52E+00
BP-21-SUR	Sodium-22	-1.01E-02	RU	6.55E-03	1.05E-02	8.52E-02	8.52E+00
BP-22-SUR	Sodium-22	-4.24E-04	U	4.60E-02	1.11E-02	8.52E-02	8.52E+00
BP-23-SUR	Sodium-22	-2.07E-03	U	6.56E-03	1.09E-02	8.52E-02	8.52E+00
BP-24-SUR	Sodium-22	-3.45E-03	U	6.59E-03	1.09E-02	8.52E-02	8.52E+00
BP-25-SUR	Sodium-22	-2.19E-03	U	6.50E-03	1.08E-02	8.52E-02	8.52E+00
BP-26-SUR	Sodium-22	8.46E-03		4.68E-03	7.44E-03	8.52E-02	8.52E+00
BP-27-SUR	Sodium-22	-7.55E-03	UL	6.63E-03	1.08E-02	8.52E-02	8.52E+00
BP-28-SUR	Sodium-22	1.08E-03	U	6.23E-03	1.04E-02	8.52E-02	8.52E+00
BP-29-SUR	Sodium-22	-4.07E-03	U	6.44E-03	1.06E-02	8.52E-02	8.52E+00
BP-30-SUR	Sodium-22	-9.02E-03	UL	6.42E-03	1.00E-02	8.52E-02	8.52E+00
BP-31-SUR	Sodium-22	8.44E-03		4.31E-03	6.80E-03	8.52E-02	8.52E+00
BP-32-SUR	Sodium-22	-3.15E-03	U	6.58E-03	1.09E-02	8.52E-02	8.52E+00
BP-33-SUR	Sodium-22	-8.97E-03	UL	6.62E-03	1.07E-02	8.52E-02	8.52E+00
BP-34-SUR	Sodium-22	3.04E-03	U	6.64E-03	1.10E-02	8.52E-02	8.52E+00
BP-35-SUR	Sodium-22	-7.16E-03	UL	5.97E-03	9.63E-03	8.52E-02	8.52E+00
BP-36-SUR	Sodium-22	-7.10E-03	UL	6.66E-03	9.76E-03	8.52E-02	8.52E+00
BP-37-SUR	Sodium-22	-6.67E-03	UL	6.09E-03	9.93E-03	8.52E-02	8.52E+00
BP-38-SUR	Sodium-22	0.00E+00	U	6.05E-03	1.01E-02	8.52E-02	8.52E+00
BP-39-SUR	Sodium-22	3.37E-03	U	4.86E-03	8.00E-03	8.52E-02	8.52E+00
BP-40-SUR	Sodium-22	-4.12E-06	U	1.65E-04	1.30E-02	8.52E-02	8.52E+00
BP-41-SUR	Sodium-22	-6.12E-03	U	7.09E-03	1.06E-02	8.52E-02	8.52E+00
BP-42-SUR	Sodium-22	-6.79E-03	UL	6.04E-03	9.83E-03	8.52E-02	8.52E+00

Table 6.46 - Sodium-22 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Sodium-22	-4.92E-03	U	6.78E-03	1.00E-02	8.52E-02	8.52E+00
BP-44-SUR	Sodium-22	-4.26E-04	U	6.38E-03	1.04E-02	8.52E-02	8.52E+00
BP-45-SUR	Sodium-22	4.76E-04	U	6.39E-03	1.06E-02	8.52E-02	8.52E+00
BP-46-SUR	Sodium-22	1.22E-03	U	5.97E-03	9.92E-03	8.52E-02	8.52E+00
BP-47-SUR	Sodium-22	-3.35E-03	U	5.77E-03	9.52E-03	8.52E-02	8.52E+00
BP-48-SUR	Sodium-22	-7.20E-03	U	7.58E-03	1.16E-02	8.52E-02	8.52E+00
BP-49-SUR	Sodium-22	8.27E-04	U	5.65E-03	9.39E-03	8.52E-02	8.52E+00
BP-50-SUR	Sodium-22	-5.96E-03	U	6.60E-03	1.01E-02	8.52E-02	8.52E+00
BP-51-SUR	Sodium-22	-5.02E-03	U	5.44E-03	8.92E-03	8.52E-02	8.52E+00
BP-52-SUR	Sodium-22	-3.76E-03	U	5.33E-03	8.77E-03	8.52E-02	8.52E+00
BP-53-SUR	Sodium-22	-6.29E-03	U	7.07E-03	1.07E-02	8.52E-02	8.52E+00
BP-54-SUR	Sodium-22	-2.42E-03	U	5.16E-03	8.52E-03	8.52E-02	8.52E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Sodium-22	-4.54E-03	U	5.52E-03	9.07E-03	8.52E-02	8.52E+00
BP-4-SUB	Sodium-22	-4.02E-04	U	7.53E-03	1.25E-02	8.52E-02	8.52E+00
BP-5-SUB	Sodium-22	-8.54E-03	UL	6.29E-03	9.64E-03	8.52E-02	8.52E+00
BP-9-SUB	Sodium-22	2.95E-04	U	5.06E-03	8.42E-03	8.52E-02	8.52E+00
BP-12-SUB	Sodium-22	-9.80E-04	U	8.07E-03	9.02E-03	8.52E-02	8.52E+00
BP-13-SUB	Sodium-22	-3.29E-03	U	6.18E-03	1.02E-02	8.52E-02	8.52E+00
BP-14-SUB	Sodium-22	-4.74E-03	U	6.58E-03	1.08E-02	8.52E-02	8.52E+00
BP-16-SUB	Sodium-22	-3.29E-03	U	7.73E-03	8.64E-03	8.52E-02	8.52E+00
BP-20-SUB	Sodium-22	0.00E+00	U	7.51E-03	1.25E-02	8.52E-02	8.52E+00
BP-23-SUB	Sodium-22	2.85E-03	U	4.06E-03	6.70E-03	8.52E-02	8.52E+00
BP-29-SUB	Sodium-22	0.00E+00	U	1.76E-01	3.22E-01	8.52E-02	8.52E+00
BP-34-SUB	Sodium-22	-7.65E-03	UL	6.49E-03	1.06E-02	8.52E-02	8.52E+00
BP-35-SUB	Sodium-22	-3.04E-03	U	8.15E-03	8.70E-03	8.52E-02	8.52E+00
BP-38-SUB	Sodium-22	-5.32E-03	U	6.97E-03	1.15E-02	8.52E-02	8.52E+00
BP-43-SUB	Sodium-22	-6.99E-03	UL	6.72E-03	1.02E-02	8.52E-02	8.52E+00
BP-45-SUB	Sodium-22	-8.78E-03	UL	6.10E-03	9.83E-03	8.52E-02	8.52E+00
BP-46-SUB	Sodium-22	-5.13E-03	U	8.15E-03	1.19E-02	8.52E-02	8.52E+00
BP-48-SUB	Sodium-22	-4.56E-03	U	6.39E-03	1.05E-02	8.52E-02	8.52E+00
BP-50-SUB	Sodium-22	-5.19E-03	U	6.86E-03	1.02E-02	8.52E-02	8.52E+00
BP-51-SUB	Sodium-22	2.34E-04	U	7.77E-03	1.29E-02	8.52E-02	8.52E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.47 - Strontium-90 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Strontium-90	2.38E-02		1.33E-02	1.85E-02	1.39E-03	1.39E-01
LR-2-SUR	Strontium-90	2.52E-02		1.19E-02	1.52E-02	1.39E-03	1.39E-01
LR-3-SUR	Strontium-90	1.69E-02		1.21E-02	1.83E-02	1.39E-03	1.39E-01
LR-4-SUR	Strontium-90	1.90E-02		1.04E-02	1.42E-02	1.39E-03	1.39E-01
LR-5-SUR	Strontium-90	3.11E-02		1.45E-02	1.84E-02	1.39E-03	1.39E-01
LR-6-SUR	Strontium-90	5.29E-02		1.70E-02	1.61E-02	1.39E-03	1.39E-01
LR-7-SUR	Strontium-90	3.48E-02		1.40E-02	1.59E-02	1.39E-03	1.39E-01
LR-8-SUR	Strontium-90	2.71E-02		1.31E-02	1.70E-02	1.39E-03	1.39E-01
LR-9-SUR	Strontium-90	5.07E-02		1.65E-02	1.61E-02	1.39E-03	1.39E-01
LR-10-SUR	Strontium-90	1.75E-02	L	1.06E-02	1.51E-02	1.39E-03	1.39E-01
LR-11-SUR	Strontium-90	2.71E-02	L	1.24E-02	1.57E-02	1.39E-03	1.39E-01
LR-12-SUR	Strontium-90	1.39E-02		1.03E-02	1.57E-02	1.39E-03	1.39E-01
LR-13-SUR	Strontium-90	5.28E-02		1.83E-02	1.87E-02	1.39E-03	1.39E-01
LR-14-SUR	Strontium-90	2.69E-02		1.30E-02	1.67E-02	1.39E-03	1.39E-01
LR-15-SUR	Strontium-90	1.65E-02		1.17E-02	1.77E-02	1.39E-03	1.39E-01
LR-16-SUR	Strontium-90	2.80E-02		1.32E-02	1.70E-02	1.39E-03	1.39E-01
LR-17-SUR	Strontium-90	2.50E-02		1.34E-02	1.83E-02	1.39E-03	1.39E-01
LR-18-SUR	Strontium-90	1.39E-02		1.06E-02	1.65E-02	1.39E-03	1.39E-01
LR-19-SUR	Strontium-90	3.13E-02		1.29E-02	1.52E-02	1.39E-03	1.39E-01
LR-20-SUR	Strontium-90	3.88E-02		1.38E-02	1.45E-02	1.39E-03	1.39E-01
LR-21-SUR	Strontium-90	3.60E-02		1.59E-02	1.95E-02	1.39E-03	1.39E-01
LR-22-SUR	Strontium-90	2.39E-02		1.23E-02	1.62E-02	1.39E-03	1.39E-01
LR-23-SUR	Strontium-90	3.23E-02		1.42E-02	1.76E-02	1.39E-03	1.39E-01
LR-24-SUR	Strontium-90	3.03E-02		1.34E-02	1.66E-02	1.39E-03	1.39E-01
LR-25-SUR	Strontium-90	2.62E-02		1.35E-02	1.81E-02	1.39E-03	1.39E-01
LR-26-SUR	Strontium-90	2.28E-02		1.17E-02	1.58E-02	1.39E-03	1.39E-01
LR-27-SUR	Strontium-90	3.92E-02		1.38E-02	1.45E-02	1.39E-03	1.39E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Strontium-90	-4.42E-03	U	6.75E-03	1.47E-02	1.39E-03	1.39E-01
LR-4-SUB	Strontium-90	4.10E-03	U	7.80E-03	1.39E-02	1.39E-03	1.39E-01
LR-9-SUB	Strontium-90	9.28E-03		8.25E-03	1.31E-02	1.39E-03	1.39E-01
LR-13-SUB	Strontium-90	-4.81E-03	UL	6.17E-03	1.35E-02	1.39E-03	1.39E-01
LR-15-SUB	Strontium-90	1.19E-02		9.70E-03	1.52E-02	1.39E-03	1.39E-01
LR-18-SUB	Strontium-90	1.08E-02		1.01E-02	1.64E-02	1.39E-03	1.39E-01
LR-19-SUB	Strontium-90	3.41E-03	U	8.66E-03	1.58E-02	1.39E-03	1.39E-01
LR-23-SUB	Strontium-90	5.75E-03	U	9.12E-03	1.60E-02	1.39E-03	1.39E-01
LR-24-SUB	Strontium-90	-3.71E-03	U	8.78E-03	1.79E-02	1.39E-03	1.39E-01
LR-26-SUB	Strontium-90	-1.25E-03	U	8.00E-03	1.59E-02	1.39E-03	1.39E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Strontium-90	2.45E-02		1.24E-02	1.65E-02	1.39E-03	1.39E-01
RP-2-SUR	Strontium-90	1.57E-02		1.04E-02	1.53E-02	1.39E-03	1.39E-01
RP-3-SUR	Strontium-90	4.93E-03	U	9.96E-03	1.78E-02	1.39E-03	1.39E-01
RP-4-SUR	Strontium-90	4.11E-02		1.48E-02	1.57E-02	1.39E-03	1.39E-01
RP-5-SUR	Strontium-90	8.00E-02		2.19E-02	1.68E-02	1.39E-03	1.39E-01
RP-6-SUR	Strontium-90	8.36E-02		2.26E-02	1.74E-02	1.39E-03	1.39E-01
RP-7-SUR	Strontium-90	4.63E-02		1.46E-02	1.32E-02	1.39E-03	1.39E-01
RP-8-SUR	Strontium-90	3.58E-02		1.42E-02	1.70E-02	1.39E-03	1.39E-01
RP-9-SUR	Strontium-90	5.25E-02		1.52E-02	1.26E-02	1.39E-03	1.39E-01
RP-10-SUR	Strontium-90	5.21E-02		1.53E-02	1.31E-02	1.39E-03	1.39E-01
RP-11-SUR	Strontium-90	2.45E-02		1.16E-02	1.50E-02	1.39E-03	1.39E-01
RP-12-SUR	Strontium-90	2.55E-02		1.22E-02	1.57E-02	1.39E-03	1.39E-01
RP-13-SUR	Strontium-90	1.22E-02		8.63E-03	1.30E-02	1.39E-03	1.39E-01
RP-14-SUR	Strontium-90	2.73E-02		1.12E-02	1.32E-02	1.39E-03	1.39E-01
RP-15-SUR	Strontium-90	4.78E-02		1.57E-02	1.56E-02	1.39E-03	1.39E-01
RP-16-SUR	Strontium-90	6.91E-02		1.90E-02	1.44E-02	1.39E-03	1.39E-01
RP-17-SUR	Strontium-90	2.93E-02		1.18E-02	1.38E-02	1.39E-03	1.39E-01
RP-18-SUR	Strontium-90	6.57E-02		1.86E-02	1.55E-02	1.39E-03	1.39E-01
RP-19-SUR	Strontium-90	4.92E-02		1.48E-02	1.30E-02	1.39E-03	1.39E-01
RP-20-SUR	Strontium-90	2.28E-02		1.03E-02	1.26E-02	1.39E-03	1.39E-01
RP-21-SUR	Strontium-90	1.83E-02		1.11E-02	1.58E-02	1.39E-03	1.39E-01
RP-22-SUR	Strontium-90	7.01E-02		1.82E-02	1.25E-02	1.39E-03	1.39E-01
RP-23-SUR	Strontium-90	2.35E-02		1.04E-02	1.27E-02	1.39E-03	1.39E-01
RP-24-SUR	Strontium-90	3.90E-02		1.29E-02	1.27E-02	1.39E-03	1.39E-01
RP-25-SUR	Strontium-90	-7.97E-03	U	9.07E-03	1.92E-02	1.39E-03	1.39E-01
RP-26-SUR	Strontium-90	3.30E-02		1.29E-02	1.43E-02	1.39E-03	1.39E-01
RP-27-SUR	Strontium-90	4.30E-02		1.64E-02	1.87E-02	1.39E-03	1.39E-01
RP-28-SUR	Strontium-90	3.26E-02		1.29E-02	1.47E-02	1.39E-03	1.39E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Strontium-90	6.08E-02	L	1.75E-02	1.50E-02	1.39E-03	1.39E-01
RP-5-SUB	Strontium-90	1.99E-03	U	8.12E-03	1.52E-02	1.39E-03	1.39E-01
RP-7-SUB	Strontium-90	8.26E-03	U	9.34E-03	1.56E-02	1.39E-03	1.39E-01
RP-12-SUB	Strontium-90	-6.04E-03	U	8.92E-03	1.92E-02	1.39E-03	1.39E-01

Table 6.47 - Strontium-90 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-13-SUB	Strontium-90	1.07E-02	U	1.09E-02	1.79E-02	1.39E-03	1.39E-01
RP-17-SUB	Strontium-90	-1.20E-02	RU	6.66E-03	1.61E-02	1.39E-03	1.39E-01
RP-18-SUB	Strontium-90	2.62E-03	U	7.30E-03	1.34E-02	1.39E-03	1.39E-01
RP-19-SUB	Strontium-90	2.21E-03	U	9.53E-03	1.77E-02	1.39E-03	1.39E-01
RP-20-SUB	Strontium-90	6.03E-03	U	9.37E-03	1.64E-02	1.39E-03	1.39E-01
RP-28-SUB	Strontium-90	8.41E-03	U	9.76E-03	1.64E-02	1.39E-03	1.39E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Strontium-90	2.06E-02		1.02E-02	1.34E-02	1.39E-03	1.39E-01
BP-2-SUR	Strontium-90	2.46E-02		1.09E-02	1.35E-02	1.39E-03	1.39E-01
BP-3-SUR	Strontium-90	9.84E-03	U	9.94E-03	1.63E-02	1.39E-03	1.39E-01
BP-4-SUR	Strontium-90	1.23E-02		9.69E-03	1.50E-02	1.39E-03	1.39E-01
BP-5-SUR	Strontium-90	2.60E-02		1.28E-02	1.73E-02	1.39E-03	1.39E-01
BP-6-SUR	Strontium-90	1.00E-02		9.14E-03	1.47E-02	1.39E-03	1.39E-01
BP-7-SUR	Strontium-90	2.45E-02		1.17E-02	1.50E-02	1.39E-03	1.39E-01
BP-8-SUR	Strontium-90	2.00E-02		1.05E-02	1.43E-02	1.39E-03	1.39E-01
BP-9-SUR	Strontium-90	2.10E-02		1.09E-02	1.48E-02	1.39E-03	1.39E-01
BP-10-SUR	Strontium-90	2.36E-02		1.03E-02	1.24E-02	1.39E-03	1.39E-01
BP-11-SUR	Strontium-90	3.46E-03	U	9.60E-03	1.74E-02	1.39E-03	1.39E-01
BP-12-SUR	Strontium-90	2.34E-02		1.02E-02	1.25E-02	1.39E-03	1.39E-01
BP-13-SUR	Strontium-90	2.45E-02		1.08E-02	1.33E-02	1.39E-03	1.39E-01
BP-14-SUR	Strontium-90	1.93E-02	L	9.07E-03	1.16E-02	1.39E-03	1.39E-01
BP-15-SUR	Strontium-90	2.95E-03	U	7.93E-03	1.45E-02	1.39E-03	1.39E-01
BP-16-SUR	Strontium-90	2.87E-02		1.16E-02	1.34E-02	1.39E-03	1.39E-01
BP-17-SUR	Strontium-90	1.70E-02		9.33E-03	1.28E-02	1.39E-03	1.39E-01
BP-18-SUR	Strontium-90	3.13E-02		1.25E-02	1.48E-02	1.39E-03	1.39E-01
BP-19-SUR	Strontium-90	2.63E-02	L	1.05E-02	1.19E-02	1.39E-03	1.39E-01
BP-20-SUR	Strontium-90	2.81E-02		1.25E-02	1.60E-02	1.39E-03	1.39E-01
BP-21-SUR	Strontium-90	2.05E-02		9.99E-03	1.30E-02	1.39E-03	1.39E-01
BP-22-SUR	Strontium-90	1.56E-02	L	9.14E-03	1.30E-02	1.39E-03	1.39E-01
BP-23-SUR	Strontium-90	2.46E-02		1.06E-02	1.28E-02	1.39E-03	1.39E-01
BP-24-SUR	Strontium-90	2.14E-02		1.03E-02	1.33E-02	1.39E-03	1.39E-01
BP-25-SUR	Strontium-90	2.79E-02		1.11E-02	1.29E-02	1.39E-03	1.39E-01
BP-26-SUR	Strontium-90	3.93E-02		1.31E-02	1.26E-02	1.39E-03	1.39E-01
BP-27-SUR	Strontium-90	3.25E-02	L	1.30E-02	1.56E-02	1.39E-03	1.39E-01
BP-28-SUR	Strontium-90	1.44E-02		8.96E-03	1.29E-02	1.39E-03	1.39E-01
BP-29-SUR	Strontium-90	2.78E-02		1.13E-02	1.33E-02	1.39E-03	1.39E-01
BP-30-SUR	Strontium-90	2.18E-02		1.01E-02	1.28E-02	1.39E-03	1.39E-01
BP-31-SUR	Strontium-90	1.41E-02		1.09E-02	1.69E-02	1.39E-03	1.39E-01
BP-32-SUR	Strontium-90	1.11E-02		1.03E-02	1.66E-02	1.39E-03	1.39E-01
BP-33-SUR	Strontium-90	1.29E-02		8.56E-03	1.26E-02	1.39E-03	1.39E-01
BP-34-SUR	Strontium-90	1.78E-02		9.70E-03	1.33E-02	1.39E-03	1.39E-01
BP-35-SUR	Strontium-90	2.02E-02	L	9.25E-03	1.15E-02	1.39E-03	1.39E-01
BP-36-SUR	Strontium-90	2.36E-02		1.17E-02	1.58E-02	1.39E-03	1.39E-01
BP-37-SUR	Strontium-90	1.55E-02		9.35E-03	1.33E-02	1.39E-03	1.39E-01
BP-38-SUR	Strontium-90	1.63E-02		9.13E-03	1.27E-02	1.39E-03	1.39E-01
BP-39-SUR	Strontium-90	1.60E-02		9.65E-03	1.39E-02	1.39E-03	1.39E-01
BP-40-SUR	Strontium-90	1.68E-02		9.09E-03	1.24E-02	1.39E-03	1.39E-01
BP-41-SUR	Strontium-90	1.85E-02		1.07E-02	1.50E-02	1.39E-03	1.39E-01
BP-42-SUR	Strontium-90	1.54E-02		1.00E-02	1.48E-02	1.39E-03	1.39E-01
BP-43-SUR	Strontium-90	2.24E-02		1.15E-02	1.56E-02	1.39E-03	1.39E-01
BP-44-SUR	Strontium-90	3.57E-02		1.33E-02	1.44E-02	1.39E-03	1.39E-01
BP-45-SUR	Strontium-90	1.22E-02		9.33E-03	1.43E-02	1.39E-03	1.39E-01
BP-46-SUR	Strontium-90	3.26E-02		1.26E-02	1.43E-02	1.39E-03	1.39E-01
BP-47-SUR	Strontium-90	1.04E-02		9.13E-03	1.45E-02	1.39E-03	1.39E-01
BP-48-SUR	Strontium-90	1.14E-02		1.09E-02	1.77E-02	1.39E-03	1.39E-01
BP-49-SUR	Strontium-90	9.35E-03	U	9.55E-03	1.57E-02	1.39E-03	1.39E-01
BP-50-SUR	Strontium-90	2.32E-02		1.31E-02	1.86E-02	1.39E-03	1.39E-01
BP-51-SUR	Strontium-90	2.22E-02		1.06E-02	1.37E-02	1.39E-03	1.39E-01
BP-52-SUR	Strontium-90	2.01E-02		1.01E-02	1.34E-02	1.39E-03	1.39E-01
BP-53-SUR	Strontium-90	1.74E-02		1.11E-02	1.62E-02	1.39E-03	1.39E-01
BP-54-SUR	Strontium-90	1.74E-02		9.84E-03	1.36E-02	1.39E-03	1.39E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Strontium-90	2.69E-04	U	8.50E-03	1.63E-02	1.39E-03	1.39E-01
BP-4-SUB	Strontium-90	1.55E-02		1.04E-02	1.54E-02	1.39E-03	1.39E-01
BP-5-SUB	Strontium-90	5.08E-04	U	6.83E-03	1.33E-02	1.39E-03	1.39E-01
BP-9-SUB	Strontium-90	-2.31E-03	U	7.99E-03	1.63E-02	1.39E-03	1.39E-01
BP-12-SUB	Strontium-90	9.79E-03	U	9.84E-03	1.61E-02	1.39E-03	1.39E-01
BP-13-SUB	Strontium-90	-1.27E-03	U	7.09E-03	1.41E-02	1.39E-03	1.39E-01
BP-14-SUB	Strontium-90	4.30E-03	U	9.97E-03	1.81E-02	1.39E-03	1.39E-01
BP-16-SUB	Strontium-90	2.51E-03	U	7.29E-03	1.34E-02	1.39E-03	1.39E-01
BP-20-SUB	Strontium-90	4.54E-03	U	7.35E-03	1.29E-02	1.39E-03	1.39E-01
BP-23-SUB	Strontium-90	-1.72E-03	U	7.97E-03	1.60E-02	1.39E-03	1.39E-01
BP-29-SUB	Strontium-90	5.97E-03	U	9.66E-03	1.69E-02	1.39E-03	1.39E-01
BP-34-SUB	Strontium-90	-4.50E-03	U	6.89E-03	1.47E-02	1.39E-03	1.39E-01

Table 6.47 - Strontium-90 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-35-SUB	Strontium-90	-1.31E-03	U	1.07E-02	2.10E-02	1.39E-03	1.39E-01
BP-38-SUB	Strontium-90	1.82E-03	U	8.32E-03	1.56E-02	1.39E-03	1.39E-01
BP-43-SUB	Strontium-90	2.70E-03	U	7.40E-03	1.36E-02	1.39E-03	1.39E-01
BP-45-SUB	Strontium-90	-3.02E-04	U	6.87E-03	1.34E-02	1.39E-03	1.39E-01
BP-46-SUB	Strontium-90	9.09E-04	U	6.93E-03	1.32E-02	1.39E-03	1.39E-01
BP-48-SUB	Strontium-90	3.61E-03	U	9.09E-03	1.67E-02	1.39E-03	1.39E-01
BP-50-SUB	Strontium-90	-2.75E-03	U	8.00E-03	1.64E-02	1.39E-03	1.39E-01
BP-51-SUB	Strontium-90	1.30E-02		9.68E-03	1.47E-02	1.39E-03	1.39E-01
Distance Test Locations							
NW-2-SUR (SP-10)	Strontium-90	2.45E-02		1.50E-02	2.17E-02	1.39E-03	1.39E-01
NW-3-SUR (SP-13)	Strontium-90	2.24E-02		1.42E-02	2.07E-02	1.39E-03	1.39E-01
NW-4-SUR (LP-14)	Strontium-90	2.77E-02		1.29E-02	1.64E-02	1.39E-03	1.39E-01
NW-5-SUR (LP-7)	Strontium-90	2.70E-02		1.51E-02	2.09E-02	1.39E-03	1.39E-01
NW-6-SUR (LP-8)	Strontium-90	4.51E-02		1.59E-02	1.63E-02	1.39E-03	1.39E-01
SW-1-SUR (Z-10)	Strontium-90	3.37E-03	U	9.77E-03	1.79E-02	1.39E-03	1.39E-01
SW-3-SUR (Z-4)	Strontium-90	1.29E-01		3.08E-02	1.83E-02	1.39E-03	1.39E-01
SW-5-SUR (Z-14)	Strontium-90	1.56E-03	U	1.10E-02	2.09E-02	1.39E-03	1.39E-01
SW-6-SUR (Z-13)	Strontium-90	3.49E-03	U	8.72E-03	1.59E-02	1.39E-03	1.39E-01
SW-7-SUR (Z-3)	Strontium-90	4.30E-03	U	1.20E-02	2.19E-02	1.39E-03	1.39E-01
SE-1-SUR (SR-2)	Strontium-90	-1.26E-02	UL	1.09E-02	2.51E-02	1.39E-03	1.39E-01
SE-2-SUR (SR-3)	Strontium-90	1.36E-02	U	1.81E-02	3.10E-02	1.39E-03	1.39E-01
SE-3-SUR (TP-11)	Strontium-90	3.58E-03	U	1.01E-02	1.85E-02	1.39E-03	1.39E-01
SE-4-SUR (TP-14)	Strontium-90	1.01E-03	U	7.73E-03	1.47E-02	1.39E-03	1.39E-01
SE-6-SUR (TP-16)	Strontium-90	1.12E-02		9.66E-03	1.53E-02	1.39E-03	1.39E-01
NE-1-SUR (RC-7)	Strontium-90	2.73E-02		1.20E-02	1.43E-02	1.39E-03	1.39E-01
NE-3-SUR (SCT-5	Strontium-90	3.53E-02		1.36E-02	1.53E-02	1.39E-03	1.39E-01
NE-4-SUR (SCT-9)	Strontium-90	3.34E-02		1.55E-02	1.98E-02	1.39E-03	1.39E-01
NE-5-SUR (SCT-10)	Strontium-90	3.22E-02		1.37E-02	1.67E-02	1.39E-03	1.39E-01
NE-6-SUR (SCT-11)	Strontium-90	2.91E-02		1.21E-02	1.42E-02	1.39E-03	1.39E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.48 - Technetium-99 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Technetium-99	1.56E-01	UJ	1.53E-01	2.64E-01	5.57E-03	5.57E-01
LR-2-SUR	Technetium-99	-1.83E-02	UJ	1.07E-01	1.97E-01	5.57E-03	5.57E-01
LR-3-SUR	Technetium-99	1.45E-01	UJ	1.28E-01	2.19E-01	5.57E-03	5.57E-01
LR-4-SUR	Technetium-99	2.67E-02	UJ	1.19E-01	2.15E-01	5.57E-03	5.57E-01
LR-5-SUR	Technetium-99	-3.47E-02	UJ	1.13E-01	2.09E-01	5.57E-03	5.57E-01
LR-6-SUR	Technetium-99	7.47E-03	UJ	1.32E-01	2.41E-01	5.57E-03	5.57E-01
LR-7-SUR	Technetium-99	-4.96E-02	UJ	1.52E-01	2.82E-01	5.57E-03	5.57E-01
LR-8-SUR	Technetium-99	2.12E-01	UJ	1.50E-01	2.52E-01	5.57E-03	5.57E-01
LR-9-SUR	Technetium-99	1.12E-01	UJ	1.44E-01	2.52E-01	5.57E-03	5.57E-01
LR-10-SUR	Technetium-99	1.23E-01	UJ	2.09E-01	3.71E-01	5.57E-03	5.57E-01
LR-11-SUR	Technetium-99	2.08E-01	UJ	1.41E-01	2.36E-01	5.57E-03	5.57E-01
LR-12-SUR	Technetium-99	-1.76E-02	UJ	1.32E-01	2.43E-01	5.57E-03	5.57E-01
LR-13-SUR	Technetium-99	1.45E-01		1.36E-01	2.34E-01	5.57E-03	5.57E-01
LR-14-SUR	Technetium-99	4.01E-02	UJ	1.65E-01	2.98E-01	5.57E-03	5.57E-01
LR-15-SUR	Technetium-99	6.34E-02	UJ	1.19E-01	2.11E-01	5.57E-03	5.57E-01
LR-16-SUR	Technetium-99	1.42E-01	UJ	1.91E-01	3.35E-01	5.57E-03	5.57E-01
LR-17-SUR	Technetium-99	2.56E-01	UJ	2.52E-01	4.35E-01	5.57E-03	5.57E-01
LR-18-SUR	Technetium-99	5.51E-02	U	3.32E-01	6.01E-01	5.57E-03	5.57E-01
LR-19-SUR	Technetium-99	2.21E-01	J	2.08E-01	3.59E-01	5.57E-03	5.57E-01
LR-20-SUR	Technetium-99	2.59E-02	UJ	9.00E-02	1.63E-01	5.57E-03	5.57E-01
LR-21-SUR	Technetium-99	1.67E-01	J	1.07E-01	1.79E-01	5.57E-03	5.57E-01
LR-22-SUR	Technetium-99	1.26E-01	U	1.57E-01	2.76E-01	5.57E-03	5.57E-01
LR-23-SUR	Technetium-99	2.23E-01	J	2.10E-01	3.62E-01	5.57E-03	5.57E-01
LR-24-SUR	Technetium-99	2.68E-01		1.74E-01	2.90E-01	5.57E-03	5.57E-01
LR-25-SUR	Technetium-99	3.13E-01	J	1.68E-01	2.73E-01	5.57E-03	5.57E-01
LR-26-SUR	Technetium-99	8.34E-02	UJ	8.86E-02	1.54E-01	5.57E-03	5.57E-01
LR-27-SUR	Technetium-99	1.09E-01	UJ	1.82E-01	3.24E-01	5.57E-03	5.57E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Technetium-99	7.12E-02	U	1.00E-01	1.76E-01	5.57E-03	5.57E-01
LR-4-SUB	Technetium-99	4.89E-02	U	9.23E-02	1.64E-01	5.57E-03	5.57E-01
LR-9-SUB	Technetium-99	9.60E-02	J	9.04E-02	1.56E-01	5.57E-03	5.57E-01
LR-13-SUB	Technetium-99	9.20E-02	UJ	9.95E-02	1.73E-01	5.57E-03	5.57E-01
LR-15-SUB	Technetium-99	1.32E-01	UJ	1.30E-01	2.25E-01	5.57E-03	5.57E-01
LR-18-SUB	Technetium-99	1.98E-01	UJ	2.32E-01	4.06E-01	5.57E-03	5.57E-01
LR-19-SUB	Technetium-99	1.32E-01	J	1.10E-01	1.88E-01	5.57E-03	5.57E-01
LR-23-SUB	Technetium-99	1.21E-01	UJ	2.16E-01	3.85E-01	5.57E-03	5.57E-01
LR-24-SUB	Technetium-99	-1.08E-01	UJ	2.30E-01	4.32E-01	5.57E-03	5.57E-01
LR-26-SUB	Technetium-99	1.30E-01	UJ	2.31E-01	4.12E-01	5.57E-03	5.57E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Technetium-99	1.27E-01	J	1.20E-01	2.08E-01	5.57E-03	5.57E-01
RP-2-SUR	Technetium-99	2.40E-01		1.95E-01	3.32E-01	5.57E-03	5.57E-01
RP-3-SUR	Technetium-99	3.11E-01		2.39E-01	4.06E-01	5.57E-03	5.57E-01
RP-4-SUR	Technetium-99	7.86E-02	U	1.54E-01	2.76E-01	5.57E-03	5.57E-01
RP-5-SUR	Technetium-99	3.39E-01	J	1.93E-01	3.16E-01	5.57E-03	5.57E-01
RP-6-SUR	Technetium-99	1.99E-02	UJ	1.42E-01	2.60E-01	5.57E-03	5.57E-01
RP-7-SUR	Technetium-99	2.24E-01	J	2.02E-01	3.47E-01	5.57E-03	5.57E-01
RP-8-SUR	Technetium-99	3.40E-01	J	1.81E-01	2.93E-01	5.57E-03	5.57E-01
RP-9-SUR	Technetium-99	2.23E-01		1.81E-01	3.08E-01	5.57E-03	5.57E-01
RP-10-SUR	Technetium-99	1.84E-01	UJ	2.05E-01	3.58E-01	5.57E-03	5.57E-01
RP-11-SUR	Technetium-99	1.12E-01	U	2.39E-01	4.28E-01	5.57E-03	5.57E-01
RP-12-SUR	Technetium-99	1.34E-01	U	2.16E-01	3.84E-01	5.57E-03	5.57E-01
RP-13-SUR	Technetium-99	1.64E-01		1.31E-01	2.24E-01	5.57E-03	5.57E-01
RP-14-SUR	Technetium-99	3.64E-01	J	1.91E-01	3.08E-01	5.57E-03	5.57E-01
RP-15-SUR	Technetium-99	3.09E-01		1.76E-01	2.88E-01	5.57E-03	5.57E-01
RP-16-SUR	Technetium-99	1.21E-01	UJ	1.83E-01	3.24E-01	5.57E-03	5.57E-01
RP-17-SUR	Technetium-99	1.98E-01	J	1.79E-01	3.07E-01	5.57E-03	5.57E-01
RP-18-SUR	Technetium-99	2.71E-01		1.73E-01	2.88E-01	5.57E-03	5.57E-01
RP-19-SUR	Technetium-99	6.19E-02	UJ	8.22E-02	1.45E-01	5.57E-03	5.57E-01
RP-20-SUR	Technetium-99	1.03E-01	UJ	1.81E-01	3.22E-01	5.57E-03	5.57E-01
RP-21-SUR	Technetium-99	-7.50E-03	UJ	7.60E-02	1.40E-01	5.57E-03	5.57E-01

Table 6.48 - Technetium-99 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Technetium-99	1.02E-01	J	8.49E-02	1.45E-01	5.57E-03	5.57E-01
RP-23-SUR	Technetium-99	8.72E-02	UJ	1.28E-01	2.26E-01	5.57E-03	5.57E-01
RP-24-SUR	Technetium-99	1.52E-01	J	1.08E-01	1.83E-01	5.57E-03	5.57E-01
RP-25-SUR	Technetium-99	1.42E-01	J	8.87E-02	1.47E-01	5.57E-03	5.57E-01
RP-26-SUR	Technetium-99	8.69E-02	UJ	9.00E-02	1.56E-01	5.57E-03	5.57E-01
RP-27-SUR	Technetium-99	1.22E-01	UJ	2.37E-01	4.23E-01	5.57E-03	5.57E-01
RP-28-SUR	Technetium-99	3.26E-02	UJ	8.92E-02	1.61E-01	5.57E-03	5.57E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Technetium-99	7.04E-02	UJ	1.53E-01	2.74E-01	5.57E-03	5.57E-01
RP-5-SUB	Technetium-99	1.88E-01	J	1.44E-01	2.43E-01	5.57E-03	5.57E-01
RP-7-SUB	Technetium-99	-4.34E-03	UJ	1.10E-01	2.03E-01	5.57E-03	5.57E-01
RP-12-SUB	Technetium-99	1.56E-01	J	1.13E-01	1.91E-01	5.57E-03	5.57E-01
RP-13-SUB	Technetium-99	1.34E-01		9.54E-02	1.60E-01	5.57E-03	5.57E-01
RP-17-SUB	Technetium-99	4.02E-02	UJ	1.70E-01	3.08E-01	5.57E-03	5.57E-01
RP-18-SUB	Technetium-99	1.88E-02	UJ	1.57E-01	2.88E-01	5.57E-03	5.57E-01
RP-19-SUB	Technetium-99	7.10E-02	U	1.73E-01	3.11E-01	5.57E-03	5.57E-01
RP-20-SUB	Technetium-99	-3.13E-02	U	1.94E-01	3.59E-01	5.57E-03	5.57E-01
RP-28-SUB	Technetium-99	3.68E-02	U	1.69E-01	3.07E-01	5.57E-03	5.57E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Technetium-99	3.45E-02	UJ	8.07E-02	1.44E-01	5.57E-03	5.57E-01
BP-2-SUR	Technetium-99	1.17E-02	UJ	8.08E-02	1.46E-01	5.57E-03	5.57E-01
BP-3-SUR	Technetium-99	-3.17E-02	UJ	8.56E-02	1.59E-01	5.57E-03	5.57E-01
BP-4-SUR	Technetium-99	6.65E-02	UJ	7.96E-02	1.39E-01	5.57E-03	5.57E-01
BP-5-SUR	Technetium-99	6.71E-03	UJ	9.25E-02	1.68E-01	5.57E-03	5.57E-01
BP-6-SUR	Technetium-99	2.11E-01	UJ	1.92E-01	3.30E-01	5.57E-03	5.57E-01
BP-7-SUR	Technetium-99	1.79E-02	U	9.91E-02	1.79E-01	5.57E-03	5.57E-01
BP-8-SUR	Technetium-99	1.91E-02	UJ	8.86E-02	1.60E-01	5.57E-03	5.57E-01
BP-9-SUR	Technetium-99	-8.08E-02	UJ	1.90E-01	3.52E-01	5.57E-03	5.57E-01
BP-10-SUR	Technetium-99	1.22E-01	U	1.35E-01	2.35E-01	5.57E-03	5.57E-01
BP-11-SUR	Technetium-99	1.66E-01	UJ	1.33E-01	2.25E-01	5.57E-03	5.57E-01
BP-12-SUR	Technetium-99	-2.09E-02	U	1.63E-01	3.00E-01	5.57E-03	5.57E-01
BP-13-SUR	Technetium-99	6.20E-03	UJ	1.71E-01	3.11E-01	5.57E-03	5.57E-01
BP-14-SUR	Technetium-99	1.38E-01	UJ	1.23E-01	2.10E-01	5.57E-03	5.57E-01
BP-15-SUR	Technetium-99	-2.96E-02	U	1.62E-01	2.97E-01	5.57E-03	5.57E-01
BP-16-SUR	Technetium-99	2.53E-02	UJ	8.81E-02	1.58E-01	5.57E-03	5.57E-01
BP-17-SUR	Technetium-99	8.47E-02	U	1.08E-01	1.89E-01	5.57E-03	5.57E-01
BP-18-SUR	Technetium-99	1.74E-01	UJ	1.48E-01	2.53E-01	5.57E-03	5.57E-01
BP-19-SUR	Technetium-99	2.20E-01	UJ	2.17E-01	3.75E-01	5.57E-03	5.57E-01
BP-20-SUR	Technetium-99	1.38E-01	UJ	2.08E-01	3.67E-01	5.57E-03	5.57E-01
BP-21-SUR	Technetium-99	2.59E-01	J	2.47E-01	4.26E-01	5.57E-03	5.57E-01
BP-22-SUR	Technetium-99	-4.98E-02	UJ	1.83E-01	3.40E-01	5.57E-03	5.57E-01
BP-23-SUR	Technetium-99	2.69E-01	J	2.21E-01	3.77E-01	5.57E-03	5.57E-01
BP-24-SUR	Technetium-99	2.46E-01	J	2.20E-01	3.79E-01	5.57E-03	5.57E-01
BP-25-SUR	Technetium-99	-6.07E-02	UJ	1.73E-01	3.22E-01	5.57E-03	5.57E-01
BP-26-SUR	Technetium-99	1.26E-01	U	2.25E-01	4.00E-01	5.57E-03	5.57E-01
BP-27-SUR	Technetium-99	4.93E-02	UJ	1.74E-01	3.14E-01	5.57E-03	5.57E-01
BP-28-SUR	Technetium-99	-8.22E-02	UJ	2.00E-01	3.73E-01	5.57E-03	5.57E-01
BP-29-SUR	Technetium-99	1.62E-01	UJ	1.93E-01	3.37E-01	5.57E-03	5.57E-01
BP-30-SUR	Technetium-99	2.46E-01	J	1.87E-01	3.17E-01	5.57E-03	5.57E-01
BP-31-SUR	Technetium-99	-5.08E-02	UJ	2.18E-01	4.04E-01	5.57E-03	5.57E-01
BP-32-SUR	Technetium-99	7.85E-02	UJ	1.82E-01	3.26E-01	5.57E-03	5.57E-01
BP-33-SUR	Technetium-99	1.71E-01	UJ	2.03E-01	3.54E-01	5.57E-03	5.57E-01
BP-34-SUR	Technetium-99	1.63E-02	UJ	2.13E-01	3.88E-01	5.57E-03	5.57E-01
BP-35-SUR	Technetium-99	1.21E-01	UJ	2.78E-01	4.97E-01	5.57E-03	5.57E-01
BP-36-SUR	Technetium-99	-9.79E-02	UJ	2.47E-01	4.60E-01	5.57E-03	5.57E-01
BP-37-SUR	Technetium-99	9.69E-02	UJ	2.06E-01	3.68E-01	5.57E-03	5.57E-01
BP-38-SUR	Technetium-99	8.88E-02	UJ	3.24E-01	5.85E-01	5.57E-03	5.57E-01
BP-39-SUR	Technetium-99	2.70E-01	J	2.58E-01	4.45E-01	5.57E-03	5.57E-01
BP-40-SUR	Technetium-99	3.01E-01	J	2.56E-01	4.37E-01	5.57E-03	5.57E-01
BP-41-SUR	Technetium-99	5.46E-02	UJ	2.13E-01	3.85E-01	5.57E-03	5.57E-01
BP-42-SUR	Technetium-99	2.39E-01	UJ	2.61E-01	4.54E-01	5.57E-03	5.57E-01

Table 6.48 - Technetium-99 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Technetium-99	6.97E-02	UJ	3.80E-01	6.88E-01	5.57E-03	5.57E-01
BP-44-SUR	Technetium-99	2.51E-01	J	2.25E-01	3.86E-01	5.57E-03	5.57E-01
BP-45-SUR	Technetium-99	2.92E-01	UJ	3.07E-01	5.33E-01	5.57E-03	5.57E-01
BP-46-SUR	Technetium-99	2.19E-01	UJ	2.23E-01	3.86E-01	5.57E-03	5.57E-01
BP-47-SUR	Technetium-99	-7.55E-02	U	1.42E-01	2.66E-01	5.57E-03	5.57E-01
BP-48-SUR	Technetium-99	1.76E-01	UJ	2.26E-01	3.96E-01	5.57E-03	5.57E-01
BP-49-SUR	Technetium-99	3.10E-01	J	2.87E-01	4.93E-01	5.57E-03	5.57E-01
BP-50-SUR	Technetium-99	0.00E+00	UJ	2.09E-01	3.82E-01	5.57E-03	5.57E-01
BP-51-SUR	Technetium-99	-1.10E-01	UJ	2.43E-01	4.53E-01	5.57E-03	5.57E-01
BP-52-SUR	Technetium-99	3.01E-01	J	2.70E-01	4.64E-01	5.57E-03	5.57E-01
BP-53-SUR	Technetium-99	-4.35E-03	UJ	2.35E-01	4.29E-01	5.57E-03	5.57E-01
BP-54-SUR	Technetium-99	1.31E-01	UJ	2.10E-01	3.71E-01	5.57E-03	5.57E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Technetium-99	-4.74E-02	UJ	1.37E-01	2.55E-01	5.57E-03	5.57E-01
BP-4-SUB	Technetium-99	1.63E-01	UJ	1.77E-01	3.08E-01	5.57E-03	5.57E-01
BP-5-SUB	Technetium-99	4.30E-02	UJ	1.64E-01	2.97E-01	5.57E-03	5.57E-01
BP-9-SUB	Technetium-99	1.00E-01	UJ	2.09E-01	3.73E-01	5.57E-03	5.57E-01
BP-12-SUB	Technetium-99	1.88E-01	UJ	1.91E-01	3.31E-01	5.57E-03	5.57E-01
BP-13-SUB	Technetium-99	3.05E-01	J	1.93E-01	3.21E-01	5.57E-03	5.57E-01
BP-14-SUB	Technetium-99	1.08E-02	UJ	1.91E-01	3.49E-01	5.57E-03	5.57E-01
BP-16-SUB	Technetium-99	6.21E-03	U	1.65E-01	3.01E-01	5.57E-03	5.57E-01
BP-20-SUB	Technetium-99	6.40E-02	UJ	2.29E-01	4.13E-01	5.57E-03	5.57E-01
BP-23-SUB	Technetium-99	-6.65E-03	UJ	1.76E-01	3.22E-01	5.57E-03	5.57E-01
BP-29-SUB	Technetium-99	2.56E-01	J	1.95E-01	3.31E-01	5.57E-03	5.57E-01
BP-34-SUB	Technetium-99	5.66E-02	UJ	1.53E-01	2.74E-01	5.57E-03	5.57E-01
BP-35-SUB	Technetium-99	2.34E-01	J	2.09E-01	3.59E-01	5.57E-03	5.57E-01
BP-38-SUB	Technetium-99	7.42E-02	UJ	2.00E-01	3.59E-01	5.57E-03	5.57E-01
BP-43-SUB	Technetium-99	1.49E-01	UJ	1.85E-01	3.24E-01	5.57E-03	5.57E-01
BP-45-SUB	Technetium-99	1.98E-02	UJ	1.73E-01	3.16E-01	5.57E-03	5.57E-01
BP-46-SUB	Technetium-99	-1.15E-02	U	1.50E-01	2.75E-01	5.57E-03	5.57E-01
BP-48-SUB	Technetium-99	1.97E-01	J	1.80E-01	3.10E-01	5.57E-03	5.57E-01
BP-50-SUB	Technetium-99	1.74E-01	UJ	1.78E-01	3.09E-01	5.57E-03	5.57E-01
BP-51-SUB	Technetium-99	2.77E-01	J	2.12E-01	3.59E-01	5.57E-03	5.57E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.49 - Tellurium-125m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Tellurium-125m	3.60E-02	KS	4.97E-03	6.07E-03	3.20E+01	3.20E+03
LR-2-SUR	Tellurium-125m	3.43E-02	KS	4.82E-03	6.07E-03	3.20E+01	3.20E+03
LR-3-SUR	Tellurium-125m	3.74E-02	KS	5.14E-03	6.18E-03	3.20E+01	3.20E+03
LR-4-SUR	Tellurium-125m	3.60E-02	KS	5.08E-03	5.59E-03	3.20E+01	3.20E+03
LR-5-SUR	Tellurium-125m	3.55E-02	KS	4.92E-03	6.18E-03	3.20E+01	3.20E+03
LR-6-SUR	Tellurium-125m	3.43E-02	KS	4.90E-03	6.30E-03	3.20E+01	3.20E+03
LR-7-SUR	Tellurium-125m	3.63E-02	KS	5.02E-03	6.01E-03	3.20E+01	3.20E+03
LR-8-SUR	Tellurium-125m	3.25E-02	KS	4.60E-03	5.78E-03	3.20E+01	3.20E+03
LR-9-SUR	Tellurium-125m	3.61E-02	KS	5.03E-03	5.09E-03	3.20E+01	3.20E+03
LR-10-SUR	Tellurium-125m	4.02E-02	KS	5.93E-03	5.30E-03	3.20E+01	3.20E+03
LR-11-SUR	Tellurium-125m	3.79E-02	KS	5.55E-03	5.74E-03	3.20E+01	3.20E+03
LR-12-SUR	Tellurium-125m	3.32E-02	KS	4.73E-03	5.96E-03	3.20E+01	3.20E+03
LR-13-SUR	Tellurium-125m	3.29E-02	KS	4.66E-03	5.99E-03	3.20E+01	3.20E+03
LR-14-SUR	Tellurium-125m	2.49E-02	KS	3.62E-03	5.78E-03	3.20E+01	3.20E+03
LR-15-SUR	Tellurium-125m	3.76E-02	KS	5.20E-03	6.16E-03	3.20E+01	3.20E+03
LR-16-SUR	Tellurium-125m	3.42E-02	KS	4.61E-03	5.85E-03	3.20E+01	3.20E+03
LR-17-SUR	Tellurium-125m	3.66E-02	KS	4.94E-03	5.30E-03	3.20E+01	3.20E+03
LR-18-SUR	Tellurium-125m	3.83E-02	KS	5.19E-03	4.84E-03	3.20E+01	3.20E+03
LR-19-SUR	Tellurium-125m	3.82E-02	KS	5.29E-03	6.26E-03	3.20E+01	3.20E+03
LR-20-SUR	Tellurium-125m	3.82E-02	KS	5.31E-03	6.45E-03	3.20E+01	3.20E+03
LR-21-SUR	Tellurium-125m	3.76E-02	KS	5.21E-03	6.32E-03	3.20E+01	3.20E+03
LR-22-SUR	Tellurium-125m	3.85E-02	KS	5.26E-03	5.68E-03	3.20E+01	3.20E+03
LR-23-SUR	Tellurium-125m	3.69E-02	KS	5.02E-03	5.92E-03	3.20E+01	3.20E+03
LR-24-SUR	Tellurium-125m	3.49E-02	KS	4.86E-03	6.01E-03	3.20E+01	3.20E+03
LR-25-SUR	Tellurium-125m	3.36E-02	KS	4.75E-03	5.75E-03	3.20E+01	3.20E+03
LR-26-SUR	Tellurium-125m	3.95E-02	KS	6.60E-03	6.18E-03	3.20E+01	3.20E+03
LR-27-SUR	Tellurium-125m	3.43E-02	KS	4.80E-03	5.84E-03	3.20E+01	3.20E+03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Tellurium-125m	3.85E-02	KS	5.22E-03	6.32E-03	3.20E+01	3.20E+03
LR-4-SUB	Tellurium-125m	3.90E-02	KS	5.17E-03	5.82E-03	3.20E+01	3.20E+03
LR-9-SUB	Tellurium-125m	4.13E-02	KS	5.43E-03	6.00E-03	3.20E+01	3.20E+03
LR-13-SUB	Tellurium-125m	4.10E-02	KS	5.51E-03	4.17E-03	3.20E+01	3.20E+03
LR-15-SUB	Tellurium-125m	4.70E-02	KS	6.61E-03	7.27E-03	3.20E+01	3.20E+03
LR-18-SUB	Tellurium-125m	4.32E-02	KS	6.08E-03	6.90E-03	3.20E+01	3.20E+03
LR-19-SUB	Tellurium-125m	4.55E-02	KS	6.36E-03	6.98E-03	3.20E+01	3.20E+03
LR-23-SUB	Tellurium-125m	5.39E-02	KS	7.37E-03	7.49E-03	3.20E+01	3.20E+03
LR-24-SUB	Tellurium-125m	4.00E-02	KS	5.69E-03	6.50E-03	3.20E+01	3.20E+03
LR-26-SUB	Tellurium-125m	4.31E-02	KS	5.96E-03	6.67E-03	3.20E+01	3.20E+03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Tellurium-125m	2.74E-02	KS	4.00E-03	4.60E-03	3.20E+01	3.20E+03
RP-2-SUR	Tellurium-125m	2.74E-02	KS	3.97E-03	4.90E-03	3.20E+01	3.20E+03
RP-3-SUR	Tellurium-125m	2.94E-02	KS	4.38E-03	4.23E-03	3.20E+01	3.20E+03
RP-4-SUR	Tellurium-125m	2.76E-02	KS	3.99E-03	5.08E-03	3.20E+01	3.20E+03
RP-5-SUR	Tellurium-125m	2.80E-02	KS	4.10E-03	5.22E-03	3.20E+01	3.20E+03
RP-6-SUR	Tellurium-125m	2.68E-02	KS	4.04E-03	5.28E-03	3.20E+01	3.20E+03
RP-7-SUR	Tellurium-125m	2.92E-02	KS	4.44E-03	5.34E-03	3.20E+01	3.20E+03
RP-8-SUR	Tellurium-125m	3.06E-02	KS	4.71E-03	6.18E-03	3.20E+01	3.20E+03
RP-9-SUR	Tellurium-125m	2.79E-02	KS	3.74E-03	4.88E-03	3.20E+01	3.20E+03
RP-10-SUR	Tellurium-125m	2.75E-02	KS	4.01E-03	5.38E-03	3.20E+01	3.20E+03
RP-11-SUR	Tellurium-125m	3.30E-02	KS	4.85E-03	6.01E-03	3.20E+01	3.20E+03
RP-12-SUR	Tellurium-125m	2.10E-02	KS	3.02E-03	5.00E-03	3.20E+01	3.20E+03
RP-13-SUR	Tellurium-125m	2.46E-02	KS	3.60E-03	4.82E-03	3.20E+01	3.20E+03
RP-14-SUR	Tellurium-125m	2.78E-02	KS	3.97E-03	5.01E-03	3.20E+01	3.20E+03
RP-15-SUR	Tellurium-125m	2.70E-02	KS	4.59E-03	5.15E-03	3.20E+01	3.20E+03
RP-16-SUR	Tellurium-125m	2.54E-02	KS	3.71E-03	4.80E-03	3.20E+01	3.20E+03
RP-17-SUR	Tellurium-125m	2.67E-02	KS	3.87E-03	5.11E-03	3.20E+01	3.20E+03
RP-18-SUR	Tellurium-125m	2.73E-02	KS	3.98E-03	4.83E-03	3.20E+01	3.20E+03
RP-19-SUR	Tellurium-125m	2.82E-02	KS	4.08E-03	5.08E-03	3.20E+01	3.20E+03
RP-20-SUR	Tellurium-125m	3.51E-02	KS	5.16E-03	6.17E-03	3.20E+01	3.20E+03
RP-21-SUR	Tellurium-125m	2.95E-02	KS	5.07E-03	4.59E-03	3.20E+01	3.20E+03

Table 6.49 - Tellurium-125m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Tellurium-125m	2.58E-02	KS	3.83E-03	5.10E-03	3.20E+01	3.20E+03
RP-23-SUR	Tellurium-125m	3.52E-03	BKS	3.04E-03	4.94E-03	3.20E+01	3.20E+03
RP-24-SUR	Tellurium-125m	2.49E-02	KS	3.72E-03	4.85E-03	3.20E+01	3.20E+03
RP-25-SUR	Tellurium-125m	2.80E-02	KS	4.12E-03	4.79E-03	3.20E+01	3.20E+03
RP-26-SUR	Tellurium-125m	2.76E-02	KS	4.02E-03	5.39E-03	3.20E+01	3.20E+03
RP-27-SUR	Tellurium-125m	3.49E-02	KS	5.18E-03	5.29E-03	3.20E+01	3.20E+03
RP-28-SUR	Tellurium-125m	3.00E-02	KS	4.31E-03	5.62E-03	3.20E+01	3.20E+03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Tellurium-125m	2.63E-02	KS	3.82E-03	4.73E-03	3.20E+01	3.20E+03
RP-5-SUB	Tellurium-125m	2.97E-02	KS	4.25E-03	5.57E-03	3.20E+01	3.20E+03
RP-7-SUB	Tellurium-125m	2.75E-02	KS	4.07E-03	5.48E-03	3.20E+01	3.20E+03
RP-12-SUB	Tellurium-125m	2.51E-02	KS	3.71E-03	4.90E-03	3.20E+01	3.20E+03
RP-13-SUB	Tellurium-125m	3.08E-02	KS	4.39E-03	5.32E-03	3.20E+01	3.20E+03
RP-17-SUB	Tellurium-125m	3.26E-02	KS	4.49E-03	5.29E-03	3.20E+01	3.20E+03
RP-18-SUB	Tellurium-125m	3.43E-02	KS	4.69E-03	4.50E-03	3.20E+01	3.20E+03
RP-19-SUB	Tellurium-125m	2.94E-02	KS	4.17E-03	5.33E-03	3.20E+01	3.20E+03
RP-20-SUB	Tellurium-125m	3.81E-03	BKS	3.15E-03	3.81E-03	3.20E+01	3.20E+03
RP-28-SUB	Tellurium-125m	2.83E-02	KS	4.06E-03	5.33E-03	3.20E+01	3.20E+03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Tellurium-125m	4.62E-02	KS	5.98E-03	6.28E-03	3.20E+01	3.20E+03
BP-2-SUR	Tellurium-125m	3.82E-02	KS	5.01E-03	6.28E-03	3.20E+01	3.20E+03
BP-3-SUR	Tellurium-125m	4.98E-02	KS	6.45E-03	6.48E-03	3.20E+01	3.20E+03
BP-4-SUR	Tellurium-125m	5.24E-02	KS	6.70E-03	6.52E-03	3.20E+01	3.20E+03
BP-5-SUR	Tellurium-125m	5.76E-02	KS	7.27E-03	6.25E-03	3.20E+01	3.20E+03
BP-6-SUR	Tellurium-125m	7.22E-03	BKS	5.63E-03	5.91E-03	3.20E+01	3.20E+03
BP-7-SUR	Tellurium-125m	5.30E-02	KS	6.80E-03	7.00E-03	3.20E+01	3.20E+03
BP-8-SUR	Tellurium-125m	5.29E-02	KS	6.79E-03	6.67E-03	3.20E+01	3.20E+03
BP-9-SUR	Tellurium-125m	5.16E-02	KS	6.61E-03	6.77E-03	3.20E+01	3.20E+03
BP-10-SUR	Tellurium-125m	5.44E-02	KS	6.90E-03	6.71E-03	3.20E+01	3.20E+03
BP-11-SUR	Tellurium-125m	5.13E-02	KS	6.55E-03	6.61E-03	3.20E+01	3.20E+03
BP-12-SUR	Tellurium-125m	8.39E-03	KS	5.02E-03	5.40E-03	3.20E+01	3.20E+03
BP-13-SUR	Tellurium-125m	5.63E-02	KS	8.22E-03	6.92E-03	3.20E+01	3.20E+03
BP-14-SUR	Tellurium-125m	4.37E-02	KS	5.82E-03	6.20E-03	3.20E+01	3.20E+03
BP-15-SUR	Tellurium-125m	4.02E-02	KS	5.20E-03	6.44E-03	3.20E+01	3.20E+03
BP-16-SUR	Tellurium-125m	4.59E-02	KS	5.98E-03	6.49E-03	3.20E+01	3.20E+03
BP-17-SUR	Tellurium-125m	4.76E-02	KS	6.14E-03	6.55E-03	3.20E+01	3.20E+03
BP-18-SUR	Tellurium-125m	5.12E-02	KS	6.55E-03	6.31E-03	3.20E+01	3.20E+03
BP-19-SUR	Tellurium-125m	5.25E-02	KS	6.42E-03	6.37E-03	3.20E+01	3.20E+03
BP-20-SUR	Tellurium-125m	5.31E-02	KS	6.78E-03	6.74E-03	3.20E+01	3.20E+03
BP-21-SUR	Tellurium-125m	4.56E-02	KS	5.92E-03	6.83E-03	3.20E+01	3.20E+03
BP-22-SUR	Tellurium-125m	5.18E-02	KS	6.35E-03	6.40E-03	3.20E+01	3.20E+03
BP-23-SUR	Tellurium-125m	5.01E-02	KS	6.19E-03	6.62E-03	3.20E+01	3.20E+03
BP-24-SUR	Tellurium-125m	5.32E-02	KS	6.60E-03	5.44E-03	3.20E+01	3.20E+03
BP-25-SUR	Tellurium-125m	4.12E-02	KS	5.26E-03	5.64E-03	3.20E+01	3.20E+03
BP-26-SUR	Tellurium-125m	4.56E-02	KS	5.71E-03	5.20E-03	3.20E+01	3.20E+03
BP-27-SUR	Tellurium-125m	4.78E-02	KS	6.01E-03	6.74E-03	3.20E+01	3.20E+03
BP-28-SUR	Tellurium-125m	6.01E-03	BKS	4.23E-03	4.98E-03	3.20E+01	3.20E+03
BP-29-SUR	Tellurium-125m	4.38E-02	KS	5.60E-03	5.81E-03	3.20E+01	3.20E+03
BP-30-SUR	Tellurium-125m	4.94E-02	KS	6.69E-03	5.28E-03	3.20E+01	3.20E+03
BP-31-SUR	Tellurium-125m	3.99E-02	KS	4.94E-03	6.59E-03	3.20E+01	3.20E+03
BP-32-SUR	Tellurium-125m	5.21E-02	KS	6.36E-03	6.76E-03	3.20E+01	3.20E+03
BP-33-SUR	Tellurium-125m	4.63E-02	KS	6.23E-03	5.96E-03	3.20E+01	3.20E+03
BP-34-SUR	Tellurium-125m	5.46E-02	KS	6.71E-03	5.44E-03	3.20E+01	3.20E+03
BP-35-SUR	Tellurium-125m	4.73E-02	KS	6.43E-03	5.99E-03	3.20E+01	3.20E+03
BP-36-SUR	Tellurium-125m	4.97E-02	KS	6.73E-03	6.56E-03	3.20E+01	3.20E+03
BP-37-SUR	Tellurium-125m	4.45E-02	KS	6.18E-03	6.62E-03	3.20E+01	3.20E+03
BP-38-SUR	Tellurium-125m	4.28E-02	KS	5.98E-03	6.40E-03	3.20E+01	3.20E+03
BP-39-SUR	Tellurium-125m	4.10E-02	KS	5.78E-03	6.28E-03	3.20E+01	3.20E+03
BP-40-SUR	Tellurium-125m	4.16E-02	KS	5.80E-03	6.52E-03	3.20E+01	3.20E+03
BP-41-SUR	Tellurium-125m	4.48E-02	KS	5.77E-03	6.49E-03	3.20E+01	3.20E+03
BP-42-SUR	Tellurium-125m	4.43E-02	KS	6.17E-03	6.49E-03	3.20E+01	3.20E+03

Table 6.49 - Tellurium-125m Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Tellurium-125m	4.61E-02	KS	5.82E-03	6.53E-03	3.20E+01	3.20E+03
BP-44-SUR	Tellurium-125m	4.78E-02	KS	6.46E-03	6.26E-03	3.20E+01	3.20E+03
BP-45-SUR	Tellurium-125m	4.42E-02	KS	5.61E-03	6.19E-03	3.20E+01	3.20E+03
BP-46-SUR	Tellurium-125m	4.15E-02	KS	5.67E-03	6.41E-03	3.20E+01	3.20E+03
BP-47-SUR	Tellurium-125m	5.13E-02	KS	6.05E-03	5.68E-03	3.20E+01	3.20E+03
BP-48-SUR	Tellurium-125m	7.09E-03	BKS	5.28E-03	5.72E-03	3.20E+01	3.20E+03
BP-49-SUR	Tellurium-125m	4.93E-02	KS	5.84E-03	5.67E-03	3.20E+01	3.20E+03
BP-50-SUR	Tellurium-125m	4.75E-02	KS	6.51E-03	6.36E-03	3.20E+01	3.20E+03
BP-51-SUR	Tellurium-125m	4.74E-02	KS	5.64E-03	5.50E-03	3.20E+01	3.20E+03
BP-52-SUR	Tellurium-125m	3.93E-02	KS	4.90E-03	5.22E-03	3.20E+01	3.20E+03
BP-53-SUR	Tellurium-125m	4.06E-02	KS	5.82E-03	6.50E-03	3.20E+01	3.20E+03
BP-54-SUR	Tellurium-125m	3.48E-02	KS	4.36E-03	4.90E-03	3.20E+01	3.20E+03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Tellurium-125m	3.96E-02	KS	4.95E-03	5.48E-03	3.20E+01	3.20E+03
BP-4-SUB	Tellurium-125m	4.46E-02	KS	6.14E-03	6.43E-03	3.20E+01	3.20E+03
BP-5-SUB	Tellurium-125m	4.39E-02	KS	6.10E-03	6.18E-03	3.20E+01	3.20E+03
BP-9-SUB	Tellurium-125m	5.12E-02	KS	5.93E-03	5.32E-03	3.20E+01	3.20E+03
BP-12-SUB	Tellurium-125m	4.79E-02	KS	6.39E-03	6.32E-03	3.20E+01	3.20E+03
BP-13-SUB	Tellurium-125m	5.38E-02	KS	6.58E-03	6.11E-03	3.20E+01	3.20E+03
BP-14-SUB	Tellurium-125m	3.62E-02	KS	5.33E-03	6.22E-03	3.20E+01	3.20E+03
BP-16-SUB	Tellurium-125m	5.44E-02	KS	6.31E-03	5.39E-03	3.20E+01	3.20E+03
BP-20-SUB	Tellurium-125m	3.93E-02	KS	5.59E-03	6.24E-03	3.20E+01	3.20E+03
BP-23-SUB	Tellurium-125m	3.55E-02	KS	4.22E-03	4.22E-03	3.20E+01	3.20E+03
BP-29-SUB	Tellurium-125m	3.62E-02	US	6.71E-02	9.27E-02	3.20E+01	3.20E+03
BP-34-SUB	Tellurium-125m	5.62E-02	KS	7.44E-03	6.87E-03	3.20E+01	3.20E+03
BP-35-SUB	Tellurium-125m	5.39E-02	KS	6.25E-03	5.41E-03	3.20E+01	3.20E+03
BP-38-SUB	Tellurium-125m	3.88E-02	KS	5.62E-03	6.71E-03	3.20E+01	3.20E+03
BP-43-SUB	Tellurium-125m	2.56E-02	KS	4.13E-03	6.34E-03	3.20E+01	3.20E+03
BP-45-SUB	Tellurium-125m	5.15E-02	KS	6.86E-03	6.57E-03	3.20E+01	3.20E+03
BP-46-SUB	Tellurium-125m	5.34E-02	KS	6.66E-03	7.40E-03	3.20E+01	3.20E+03
BP-48-SUB	Tellurium-125m	4.37E-02	KS	6.09E-03	6.38E-03	3.20E+01	3.20E+03
BP-50-SUB	Tellurium-125m	4.32E-02	KS	5.41E-03	6.23E-03	3.20E+01	3.20E+03
BP-51-SUB	Tellurium-125m	6.07E-02	KS	7.89E-03	6.74E-03	3.20E+01	3.20E+03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.50 - Thallium-208 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thallium-208	5.08E-01		5.70E-02	1.03E-02	2.26E+04	2.26E+06
LR-2-SUR	Thallium-208	4.93E-01		5.53E-02	1.02E-02	2.26E+04	2.26E+06
LR-3-SUR	Thallium-208	5.27E-01		5.90E-02	1.04E-02	2.26E+04	2.26E+06
LR-4-SUR	Thallium-208	5.10E-01		5.68E-02	9.21E-03	2.26E+04	2.26E+06
LR-5-SUR	Thallium-208	5.13E-01		5.72E-02	9.57E-03	2.26E+04	2.26E+06
LR-6-SUR	Thallium-208	5.22E-01		5.82E-02	9.43E-03	2.26E+04	2.26E+06
LR-7-SUR	Thallium-208	5.02E-01		5.59E-02	9.34E-03	2.26E+04	2.26E+06
LR-8-SUR	Thallium-208	4.97E-01		5.56E-02	9.85E-03	2.26E+04	2.26E+06
LR-9-SUR	Thallium-208	5.07E-01		5.67E-02	1.03E-02	2.26E+04	2.26E+06
LR-10-SUR	Thallium-208	5.67E-01		6.42E-02	1.13E-02	2.26E+04	2.26E+06
LR-11-SUR	Thallium-208	5.59E-01		6.32E-02	1.10E-02	2.26E+04	2.26E+06
LR-12-SUR	Thallium-208	4.72E-01		5.28E-02	9.85E-03	2.26E+04	2.26E+06
LR-13-SUR	Thallium-208	4.78E-01		5.35E-02	9.58E-03	2.26E+04	2.26E+06
LR-14-SUR	Thallium-208	4.48E-01		5.01E-02	9.10E-03	2.26E+04	2.26E+06
LR-15-SUR	Thallium-208	5.74E-01		6.38E-02	1.01E-02	2.26E+04	2.26E+06
LR-16-SUR	Thallium-208	5.46E-01		6.07E-02	9.62E-03	2.26E+04	2.26E+06
LR-17-SUR	Thallium-208	5.13E-01		5.69E-02	8.41E-03	2.26E+04	2.26E+06
LR-18-SUR	Thallium-208	5.50E-01		6.12E-02	9.81E-03	2.26E+04	2.26E+06
LR-19-SUR	Thallium-208	5.72E-01		6.36E-02	1.03E-02	2.26E+04	2.26E+06
LR-20-SUR	Thallium-208	5.75E-01		6.43E-02	1.07E-02	2.26E+04	2.26E+06
LR-21-SUR	Thallium-208	5.47E-01		6.13E-02	1.08E-02	2.26E+04	2.26E+06
LR-22-SUR	Thallium-208	5.45E-01		6.06E-02	9.54E-03	2.26E+04	2.26E+06
LR-23-SUR	Thallium-208	5.41E-01		6.03E-02	1.02E-02	2.26E+04	2.26E+06
LR-24-SUR	Thallium-208	5.27E-01		5.89E-02	1.00E-02	2.26E+04	2.26E+06
LR-25-SUR	Thallium-208	5.32E-01		5.94E-02	1.03E-02	2.26E+04	2.26E+06
LR-26-SUR	Thallium-208	5.22E-01		5.86E-02	1.07E-02	2.26E+04	2.26E+06
LR-27-SUR	Thallium-208	4.85E-01		5.46E-02	1.07E-02	2.26E+04	2.26E+06
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thallium-208	5.66E-01		6.30E-02	1.01E-02	2.26E+04	2.26E+06
LR-4-SUB	Thallium-208	5.54E-01		6.17E-02	1.01E-02	2.26E+04	2.26E+06
LR-9-SUB	Thallium-208	5.78E-01		6.41E-02	9.53E-03	2.26E+04	2.26E+06
LR-13-SUB	Thallium-208	5.48E-01		6.11E-02	9.98E-03	2.26E+04	2.26E+06
LR-15-SUB	Thallium-208	7.33E-01		8.27E-02	1.32E-02	2.26E+04	2.26E+06
LR-18-SUB	Thallium-208	5.97E-01		6.66E-02	9.74E-03	2.26E+04	2.26E+06
LR-19-SUB	Thallium-208	6.78E-01		7.66E-02	1.26E-02	2.26E+04	2.26E+06
LR-23-SUB	Thallium-208	7.98E-01		8.97E-02	1.35E-02	2.26E+04	2.26E+06
LR-24-SUB	Thallium-208	5.90E-01		6.68E-02	1.16E-02	2.26E+04	2.26E+06
LR-26-SUB	Thallium-208	6.77E-01		7.59E-02	1.07E-02	2.26E+04	2.26E+06
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thallium-208	3.87E-01		4.37E-02	8.82E-03	2.26E+04	2.26E+06
RP-2-SUR	Thallium-208	3.96E-01		4.45E-02	8.41E-03	2.26E+04	2.26E+06
RP-3-SUR	Thallium-208	4.69E-01		5.35E-02	1.04E-02	2.26E+04	2.26E+06
RP-4-SUR	Thallium-208	3.70E-01		4.18E-02	8.51E-03	2.26E+04	2.26E+06
RP-5-SUR	Thallium-208	3.83E-01		4.31E-02	8.34E-03	2.26E+04	2.26E+06
RP-6-SUR	Thallium-208	3.91E-01		4.43E-02	9.37E-03	2.26E+04	2.26E+06
RP-7-SUR	Thallium-208	4.64E-01		5.30E-02	1.08E-02	2.26E+04	2.26E+06
RP-8-SUR	Thallium-208	4.83E-01		5.55E-02	1.15E-02	2.26E+04	2.26E+06
RP-9-SUR	Thallium-208	4.51E-01		4.72E-02	9.21E-03	2.26E+04	2.26E+06
RP-10-SUR	Thallium-208	4.13E-01		4.62E-02	8.18E-03	2.26E+04	2.26E+06
RP-11-SUR	Thallium-208	5.03E-01		5.68E-02	9.68E-03	2.26E+04	2.26E+06
RP-12-SUR	Thallium-208	3.84E-01		4.32E-02	8.21E-03	2.26E+04	2.26E+06
RP-13-SUR	Thallium-208	3.64E-01		4.07E-02	7.64E-03	2.26E+04	2.26E+06
RP-14-SUR	Thallium-208	3.84E-01		4.34E-02	8.92E-03	2.26E+04	2.26E+06
RP-15-SUR	Thallium-208	3.89E-01		4.35E-02	7.76E-03	2.26E+04	2.26E+06
RP-16-SUR	Thallium-208	3.73E-01		4.20E-02	8.18E-03	2.26E+04	2.26E+06
RP-17-SUR	Thallium-208	3.88E-01		4.37E-02	8.41E-03	2.26E+04	2.26E+06
RP-18-SUR	Thallium-208	4.06E-01		4.56E-02	8.55E-03	2.26E+04	2.26E+06
RP-19-SUR	Thallium-208	4.20E-01		4.70E-02	8.36E-03	2.26E+04	2.26E+06
RP-20-SUR	Thallium-208	5.33E-01		6.06E-02	1.14E-02	2.26E+04	2.26E+06
RP-21-SUR	Thallium-208	3.77E-01		4.27E-02	9.04E-03	2.26E+04	2.26E+06

Table 6.50 - Thallium-208 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thallium-208	3.92E-01		4.41E-02	8.61E-03	2.26E+04	2.26E+06
RP-23-SUR	Thallium-208	4.92E-01		5.58E-02	1.03E-02	2.26E+04	2.26E+06
RP-24-SUR	Thallium-208	4.03E-01		4.52E-02	8.33E-03	2.26E+04	2.26E+06
RP-25-SUR	Thallium-208	4.06E-01		4.55E-02	8.47E-03	2.26E+04	2.26E+06
RP-26-SUR	Thallium-208	4.20E-01		4.69E-02	8.13E-03	2.26E+04	2.26E+06
RP-27-SUR	Thallium-208	4.41E-01		4.95E-02	9.09E-03	2.26E+04	2.26E+06
RP-28-SUR	Thallium-208	4.41E-01		4.96E-02	9.59E-03	2.26E+04	2.26E+06
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thallium-208	3.81E-01		4.29E-02	8.39E-03	2.26E+04	2.26E+06
RP-5-SUB	Thallium-208	4.44E-01		4.97E-02	8.86E-03	2.26E+04	2.26E+06
RP-7-SUB	Thallium-208	4.43E-01		4.97E-02	9.22E-03	2.26E+04	2.26E+06
RP-12-SUB	Thallium-208	3.73E-01		4.18E-02	7.67E-03	2.26E+04	2.26E+06
RP-13-SUB	Thallium-208	4.49E-01		5.01E-02	8.57E-03	2.26E+04	2.26E+06
RP-17-SUB	Thallium-208	4.64E-01		5.18E-02	8.80E-03	2.26E+04	2.26E+06
RP-18-SUB	Thallium-208	4.80E-01		5.36E-02	9.18E-03	2.26E+04	2.26E+06
RP-19-SUB	Thallium-208	4.70E-01		5.23E-02	8.36E-03	2.26E+04	2.26E+06
RP-20-SUB	Thallium-208	4.57E-01		5.10E-02	8.87E-03	2.26E+04	2.26E+06
RP-28-SUB	Thallium-208	4.62E-01		5.15E-02	8.53E-03	2.26E+04	2.26E+06
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thallium-208	6.67E-01		7.40E-02	1.08E-02	2.26E+04	2.26E+06
BP-2-SUR	Thallium-208	6.73E-01		7.44E-02	9.99E-03	2.26E+04	2.26E+06
BP-3-SUR	Thallium-208	7.12E-01		7.89E-02	1.11E-02	2.26E+04	2.26E+06
BP-4-SUR	Thallium-208	7.72E-01		8.52E-02	1.05E-02	2.26E+04	2.26E+06
BP-5-SUR	Thallium-208	7.81E-01		8.64E-02	1.17E-02	2.26E+04	2.26E+06
BP-6-SUR	Thallium-208	8.03E-01		8.86E-02	1.09E-02	2.26E+04	2.26E+06
BP-7-SUR	Thallium-208	8.03E-01		8.89E-02	1.21E-02	2.26E+04	2.26E+06
BP-8-SUR	Thallium-208	7.84E-01		8.64E-02	1.05E-02	2.26E+04	2.26E+06
BP-9-SUR	Thallium-208	7.64E-01		8.45E-02	1.17E-02	2.26E+04	2.26E+06
BP-10-SUR	Thallium-208	7.85E-01		8.66E-02	1.07E-02	2.26E+04	2.26E+06
BP-11-SUR	Thallium-208	7.55E-01		8.36E-02	1.15E-02	2.26E+04	2.26E+06
BP-12-SUR	Thallium-208	7.46E-01		8.23E-02	1.02E-02	2.26E+04	2.26E+06
BP-13-SUR	Thallium-208	7.65E-01		7.91E-02	1.18E-02	2.26E+04	2.26E+06
BP-14-SUR	Thallium-208	6.27E-01		6.94E-02	9.87E-03	2.26E+04	2.26E+06
BP-15-SUR	Thallium-208	6.92E-01		7.65E-02	1.01E-02	2.26E+04	2.26E+06
BP-16-SUR	Thallium-208	6.89E-01		7.62E-02	1.02E-02	2.26E+04	2.26E+06
BP-17-SUR	Thallium-208	7.22E-01		8.00E-02	1.10E-02	2.26E+04	2.26E+06
BP-18-SUR	Thallium-208	7.15E-01		7.89E-02	1.03E-02	2.26E+04	2.26E+06
BP-19-SUR	Thallium-208	7.51E-01		7.74E-02	1.07E-02	2.26E+04	2.26E+06
BP-20-SUR	Thallium-208	7.95E-01		8.77E-02	1.09E-02	2.26E+04	2.26E+06
BP-21-SUR	Thallium-208	7.93E-01		8.74E-02	1.04E-02	2.26E+04	2.26E+06
BP-22-SUR	Thallium-208	7.48E-01		7.73E-02	1.15E-02	2.26E+04	2.26E+06
BP-23-SUR	Thallium-208	7.48E-01		7.74E-02	1.19E-02	2.26E+04	2.26E+06
BP-24-SUR	Thallium-208	7.47E-01		7.74E-02	1.20E-02	2.26E+04	2.26E+06
BP-25-SUR	Thallium-208	6.95E-01		7.19E-02	1.09E-02	2.26E+04	2.26E+06
BP-26-SUR	Thallium-208	6.88E-01		7.11E-02	1.05E-02	2.26E+04	2.26E+06
BP-27-SUR	Thallium-208	7.00E-01		7.24E-02	1.09E-02	2.26E+04	2.26E+06
BP-28-SUR	Thallium-208	6.27E-01		6.54E-02	1.13E-02	2.26E+04	2.26E+06
BP-29-SUR	Thallium-208	6.36E-01		6.53E-02	9.47E-03	2.26E+04	2.26E+06
BP-30-SUR	Thallium-208	7.25E-01		8.09E-02	9.86E-03	2.26E+04	2.26E+06
BP-31-SUR	Thallium-208	7.34E-01		7.58E-02	1.15E-02	2.26E+04	2.26E+06
BP-32-SUR	Thallium-208	7.69E-01		7.92E-02	1.07E-02	2.26E+04	2.26E+06
BP-33-SUR	Thallium-208	7.69E-01		8.57E-02	1.06E-02	2.26E+04	2.26E+06
BP-34-SUR	Thallium-208	7.78E-01		8.04E-02	1.19E-02	2.26E+04	2.26E+06
BP-35-SUR	Thallium-208	7.15E-01		8.03E-02	1.14E-02	2.26E+04	2.26E+06
BP-36-SUR	Thallium-208	7.07E-01		7.91E-02	1.03E-02	2.26E+04	2.26E+06
BP-37-SUR	Thallium-208	6.88E-01		7.74E-02	1.16E-02	2.26E+04	2.26E+06
BP-38-SUR	Thallium-208	6.28E-01		7.06E-02	1.07E-02	2.26E+04	2.26E+06
BP-39-SUR	Thallium-208	6.20E-01		7.00E-02	1.11E-02	2.26E+04	2.26E+06
BP-40-SUR	Thallium-208	6.29E-01		7.08E-02	1.09E-02	2.26E+04	2.26E+06
BP-41-SUR	Thallium-208	6.68E-01		6.94E-02	1.15E-02	2.26E+04	2.26E+06
BP-42-SUR	Thallium-208	6.78E-01		7.61E-02	1.12E-02	2.26E+04	2.26E+06

Table 6.50 - Thallium-208 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thallium-208	6.81E-01		7.06E-02	1.15E-02	2.26E+04	2.26E+06
BP-44-SUR	Thallium-208	6.73E-01		7.55E-02	1.09E-02	2.26E+04	2.26E+06
BP-45-SUR	Thallium-208	6.69E-01		6.92E-02	1.06E-02	2.26E+04	2.26E+06
BP-46-SUR	Thallium-208	6.83E-01		7.66E-02	1.11E-02	2.26E+04	2.26E+06
BP-47-SUR	Thallium-208	7.64E-01		7.86E-02	1.05E-02	2.26E+04	2.26E+06
BP-48-SUR	Thallium-208	7.63E-01		8.54E-02	1.15E-02	2.26E+04	2.26E+06
BP-49-SUR	Thallium-208	7.50E-01		7.69E-02	9.44E-03	2.26E+04	2.26E+06
BP-50-SUR	Thallium-208	7.29E-01		8.18E-02	1.14E-02	2.26E+04	2.26E+06
BP-51-SUR	Thallium-208	6.87E-01		7.06E-02	9.06E-03	2.26E+04	2.26E+06
BP-52-SUR	Thallium-208	5.95E-01		6.13E-02	8.87E-03	2.26E+04	2.26E+06
BP-53-SUR	Thallium-208	5.79E-01		6.57E-02	1.19E-02	2.26E+04	2.26E+06
BP-54-SUR	Thallium-208	5.61E-01		5.79E-02	8.28E-03	2.26E+04	2.26E+06
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thallium-208	6.16E-01		6.40E-02	1.06E-02	2.26E+04	2.26E+06
BP-4-SUB	Thallium-208	6.66E-01		7.48E-02	1.09E-02	2.26E+04	2.26E+06
BP-5-SUB	Thallium-208	6.23E-01		7.03E-02	1.09E-02	2.26E+04	2.26E+06
BP-9-SUB	Thallium-208	7.69E-01		7.89E-02	9.41E-03	2.26E+04	2.26E+06
BP-12-SUB	Thallium-208	7.58E-01		8.47E-02	1.08E-02	2.26E+04	2.26E+06
BP-13-SUB	Thallium-208	7.92E-01		8.17E-02	1.13E-02	2.26E+04	2.26E+06
BP-14-SUB	Thallium-208	5.57E-01		6.31E-02	1.08E-02	2.26E+04	2.26E+06
BP-16-SUB	Thallium-208	7.66E-01		7.88E-02	9.96E-03	2.26E+04	2.26E+06
BP-20-SUB	Thallium-208	5.93E-01		6.69E-02	1.07E-02	2.26E+04	2.26E+06
BP-23-SUB	Thallium-208	6.39E-01		6.61E-02	9.84E-03	2.26E+04	2.26E+06
BP-29-SUB	Thallium-208	7.16E-01		1.82E-01	7.02E-02	2.26E+04	2.26E+06
BP-34-SUB	Thallium-208	8.62E-01		9.65E-02	1.25E-02	2.26E+04	2.26E+06
BP-35-SUB	Thallium-208	7.96E-01		8.16E-02	9.45E-03	2.26E+04	2.26E+06
BP-38-SUB	Thallium-208	6.07E-01		6.88E-02	1.21E-02	2.26E+04	2.26E+06
BP-43-SUB	Thallium-208	5.82E-01		6.11E-02	1.21E-02	2.26E+04	2.26E+06
BP-45-SUB	Thallium-208	7.68E-01		8.59E-02	1.14E-02	2.26E+04	2.26E+06
BP-46-SUB	Thallium-208	8.16E-01		8.47E-02	1.33E-02	2.26E+04	2.26E+06
BP-48-SUB	Thallium-208	6.44E-01		7.22E-02	1.01E-02	2.26E+04	2.26E+06
BP-50-SUB	Thallium-208	6.58E-01		6.82E-02	1.08E-02	2.26E+04	2.26E+06
BP-51-SUB	Thallium-208	9.23E-01		1.03E-01	1.16E-02	2.26E+04	2.26E+06

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.51 - Thorium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-228	1.74E+00		4.24E-01	1.37E-01	3.38E-02	3.38E+00
LR-2-SUR	Thorium-228	1.88E+00		3.58E-01	4.55E-02	3.38E-02	3.38E+00
LR-3-SUR	Thorium-228	1.85E+00	K	5.55E-01	4.22E-01	3.38E-02	3.38E+00
LR-4-SUR	Thorium-228	2.23E+00		4.24E-01	6.53E-02	3.38E-02	3.38E+00
LR-5-SUR	Thorium-228	2.02E+00		4.14E-01	8.38E-02	3.38E-02	3.38E+00
LR-6-SUR	Thorium-228	1.90E+00		3.85E-01	6.99E-02	3.38E-02	3.38E+00
LR-7-SUR	Thorium-228	1.77E+00		3.19E-01	3.43E-02	3.38E-02	3.38E+00
LR-8-SUR	Thorium-228	1.91E+00		4.72E-01	2.83E-01	3.38E-02	3.38E+00
LR-9-SUR	Thorium-228	1.80E+00		3.56E-01	5.48E-02	3.38E-02	3.38E+00
LR-10-SUR	Thorium-228	1.86E+00		3.54E-01	5.25E-02	3.38E-02	3.38E+00
LR-11-SUR	Thorium-228	1.20E+00		2.27E-01	3.09E-02	3.38E-02	3.38E+00
LR-12-SUR	Thorium-228	1.77E+00		3.37E-01	5.19E-02	3.38E-02	3.38E+00
LR-13-SUR	Thorium-228	1.69E+00		3.32E-01	4.22E-02	3.38E-02	3.38E+00
LR-14-SUR	Thorium-228	1.47E+00		2.89E-01	3.53E-02	3.38E-02	3.38E+00
LR-15-SUR	Thorium-228	1.63E+00		3.58E-01	1.43E-01	3.38E-02	3.38E+00
LR-16-SUR	Thorium-228	1.97E+00		3.60E-01	3.47E-02	3.38E-02	3.38E+00
LR-17-SUR	Thorium-228	1.86E+00		3.62E-01	3.90E-02	3.38E-02	3.38E+00
LR-18-SUR	Thorium-228	2.18E+00		4.27E-01	2.42E-02	3.38E-02	3.38E+00
LR-19-SUR	Thorium-228	1.85E+00		3.72E-01	8.74E-02	3.38E-02	3.38E+00
LR-20-SUR	Thorium-228	1.91E+00		3.48E-01	2.61E-02	3.38E-02	3.38E+00
LR-21-SUR	Thorium-228	1.63E+00		3.42E-01	9.51E-02	3.38E-02	3.38E+00
LR-22-SUR	Thorium-228	2.13E+00		4.45E-01	6.91E-02	3.38E-02	3.38E+00
LR-23-SUR	Thorium-228	2.03E+00		4.08E-01	5.42E-02	3.38E-02	3.38E+00
LR-24-SUR	Thorium-228	1.85E+00		3.56E-01	3.96E-02	3.38E-02	3.38E+00
LR-25-SUR	Thorium-228	1.62E+00		3.17E-01	3.80E-02	3.38E-02	3.38E+00
LR-26-SUR	Thorium-228	1.67E+00		3.28E-01	3.96E-02	3.38E-02	3.38E+00
LR-27-SUR	Thorium-228	1.90E+00		3.39E-01	2.02E-02	3.38E-02	3.38E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-228	2.26E+00		4.13E-01	4.28E-02	3.38E-02	3.38E+00
LR-4-SUB	Thorium-228	1.98E+00		3.52E-01	1.45E-02	3.38E-02	3.38E+00
LR-9-SUB	Thorium-228	2.06E+00		3.78E-01	3.86E-02	3.38E-02	3.38E+00
LR-13-SUB	Thorium-228	2.29E+00		4.40E-01	8.18E-02	3.38E-02	3.38E+00
LR-15-SUB	Thorium-228	1.99E+00		4.03E-01	9.26E-02	3.38E-02	3.38E+00
LR-18-SUB	Thorium-228	1.84E+00		3.45E-01	4.13E-02	3.38E-02	3.38E+00
LR-19-SUB	Thorium-228	1.91E+00		3.66E-01	6.50E-02	3.38E-02	3.38E+00
LR-23-SUB	Thorium-228	1.88E+00		3.38E-01	3.15E-02	3.38E-02	3.38E+00
LR-24-SUB	Thorium-228	2.30E+00		4.94E-01	1.57E-01	3.38E-02	3.38E+00
LR-26-SUB	Thorium-228	2.52E+00		4.53E-01	4.37E-02	3.38E-02	3.38E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-228	1.46E+00		2.85E-01	3.03E-02	3.38E-02	3.38E+00
RP-2-SUR	Thorium-228	1.14E+00		2.31E-01	2.93E-02	3.38E-02	3.38E+00
RP-3-SUR	Thorium-228	1.33E+00		2.65E-01	3.00E-02	3.38E-02	3.38E+00
RP-4-SUR	Thorium-228	2.37E+00		4.58E-01	4.83E-02	3.38E-02	3.38E+00
RP-5-SUR	Thorium-228	2.29E+00		4.48E-01	4.30E-02	3.38E-02	3.38E+00
RP-6-SUR	Thorium-228	2.80E+00		4.94E-01	2.10E-02	3.38E-02	3.38E+00
RP-7-SUR	Thorium-228	2.25E+00		4.38E-01	4.88E-02	3.38E-02	3.38E+00
RP-8-SUR	Thorium-228	1.28E+00		2.49E-01	3.03E-02	3.38E-02	3.38E+00
RP-9-SUR	Thorium-228	1.18E+00		2.36E-01	3.98E-02	3.38E-02	3.38E+00
RP-10-SUR	Thorium-228	1.48E+00		2.91E-01	3.52E-02	3.38E-02	3.38E+00
RP-11-SUR	Thorium-228	1.33E+00		2.69E-01	4.19E-02	3.38E-02	3.38E+00
RP-12-SUR	Thorium-228	2.17E+00		4.13E-01	3.55E-02	3.38E-02	3.38E+00
RP-13-SUR	Thorium-228	1.94E+00		3.76E-01	3.48E-02	3.38E-02	3.38E+00
RP-14-SUR	Thorium-228	2.22E+00		4.34E-01	4.38E-02	3.38E-02	3.38E+00
RP-15-SUR	Thorium-228	2.67E+00		4.76E-01	2.57E-02	3.38E-02	3.38E+00
RP-16-SUR	Thorium-228	2.24E+00		4.04E-01	3.10E-02	3.38E-02	3.38E+00
RP-17-SUR	Thorium-228	1.13E+00		2.24E-01	3.21E-02	3.38E-02	3.38E+00
RP-18-SUR	Thorium-228	1.96E+00		3.79E-01	5.18E-02	3.38E-02	3.38E+00
RP-19-SUR	Thorium-228	2.57E+00		4.74E-01	5.88E-02	3.38E-02	3.38E+00
RP-20-SUR	Thorium-228	2.06E+00		3.78E-01	2.48E-02	3.38E-02	3.38E+00
RP-21-SUR	Thorium-228	2.98E+00		5.41E-01	5.18E-02	3.38E-02	3.38E+00

Table 6.51 - Thorium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-228	2.28E+00		4.18E-01	3.18E-02	3.38E-02	3.38E+00
RP-23-SUR	Thorium-228	1.19E+00		2.28E-01	2.24E-02	3.38E-02	3.38E+00
RP-24-SUR	Thorium-228	1.71E+00		3.12E-01	3.03E-02	3.38E-02	3.38E+00
RP-25-SUR	Thorium-228	1.22E+00		2.36E-01	2.51E-02	3.38E-02	3.38E+00
RP-26-SUR	Thorium-228	2.66E+00		5.03E-01	5.08E-02	3.38E-02	3.38E+00
RP-27-SUR	Thorium-228	1.46E+00		2.78E-01	1.90E-02	3.38E-02	3.38E+00
RP-28-SUR	Thorium-228	2.74E+00		4.96E-01	4.05E-02	3.38E-02	3.38E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-228	2.48E+00		4.47E-01	3.91E-02	3.38E-02	3.38E+00
RP-5-SUB	Thorium-228	2.76E+00		5.26E-01	9.52E-02	3.38E-02	3.38E+00
RP-7-SUB	Thorium-228	2.48E+00		4.41E-01	2.86E-02	3.38E-02	3.38E+00
RP-12-SUB	Thorium-228	2.60E+00		4.78E-01	2.38E-02	3.38E-02	3.38E+00
RP-13-SUB	Thorium-228	1.88E+00		3.42E-01	3.45E-02	3.38E-02	3.38E+00
RP-17-SUB	Thorium-228	1.81E+00		3.34E-01	2.99E-02	3.38E-02	3.38E+00
RP-18-SUB	Thorium-228	1.74E+00		3.40E-01	6.63E-02	3.38E-02	3.38E+00
RP-19-SUB	Thorium-228	1.36E+00		2.65E-01	1.86E-02	3.38E-02	3.38E+00
RP-20-SUB	Thorium-228	1.66E+00		3.13E-01	4.85E-02	3.38E-02	3.38E+00
RP-28-SUB	Thorium-228	1.68E+00		3.24E-01	4.87E-02	3.38E-02	3.38E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-228	2.45E+00		4.31E-01	1.80E-02	3.38E-02	3.38E+00
BP-2-SUR	Thorium-228	2.60E+00		4.58E-01	2.56E-02	3.38E-02	3.38E+00
BP-3-SUR	Thorium-228	2.64E+00		4.65E-01	1.97E-02	3.38E-02	3.38E+00
BP-4-SUR	Thorium-228	2.22E+00		3.96E-01	2.61E-02	3.38E-02	3.38E+00
BP-5-SUR	Thorium-228	2.44E+00		4.31E-01	2.34E-02	3.38E-02	3.38E+00
BP-6-SUR	Thorium-228	2.70E+00		4.77E-01	2.89E-02	3.38E-02	3.38E+00
BP-7-SUR	Thorium-228	3.16E+00		5.52E-01	3.08E-02	3.38E-02	3.38E+00
BP-8-SUR	Thorium-228	2.73E+00		4.86E-01	3.25E-02	3.38E-02	3.38E+00
BP-9-SUR	Thorium-228	2.75E+00		4.87E-01	1.82E-02	3.38E-02	3.38E+00
BP-10-SUR	Thorium-228	2.74E+00		4.85E-01	3.01E-02	3.38E-02	3.38E+00
BP-11-SUR	Thorium-228	2.58E+00		4.54E-01	3.24E-02	3.38E-02	3.38E+00
BP-12-SUR	Thorium-228	2.59E+00		4.61E-01	3.13E-02	3.38E-02	3.38E+00
BP-13-SUR	Thorium-228	2.65E+00		4.66E-01	1.27E-02	3.38E-02	3.38E+00
BP-14-SUR	Thorium-228	1.98E+00		3.57E-01	2.55E-02	3.38E-02	3.38E+00
BP-15-SUR	Thorium-228	2.14E+00		3.81E-01	1.97E-02	3.38E-02	3.38E+00
BP-16-SUR	Thorium-228	1.90E+00		3.38E-01	2.26E-02	3.38E-02	3.38E+00
BP-17-SUR	Thorium-228	2.02E+00		3.59E-01	1.48E-02	3.38E-02	3.38E+00
BP-18-SUR	Thorium-228	2.69E+00		4.79E-01	2.51E-02	3.38E-02	3.38E+00
BP-19-SUR	Thorium-228	2.85E+00		5.09E-01	3.70E-02	3.38E-02	3.38E+00
BP-20-SUR	Thorium-228	2.28E+00		4.02E-01	1.96E-02	3.38E-02	3.38E+00
BP-21-SUR	Thorium-228	2.56E+00		4.52E-01	1.90E-02	3.38E-02	3.38E+00
BP-22-SUR	Thorium-228	2.11E+00		3.74E-01	2.42E-02	3.38E-02	3.38E+00
BP-23-SUR	Thorium-228	2.35E+00		4.15E-01	8.50E-03	3.38E-02	3.38E+00
BP-24-SUR	Thorium-228	2.30E+00		4.10E-01	3.03E-02	3.38E-02	3.38E+00
BP-25-SUR	Thorium-228	2.40E+00		4.26E-01	2.15E-02	3.38E-02	3.38E+00
BP-26-SUR	Thorium-228	2.62E+00		4.62E-01	2.03E-02	3.38E-02	3.38E+00
BP-27-SUR	Thorium-228	2.69E+00		4.75E-01	1.88E-02	3.38E-02	3.38E+00
BP-28-SUR	Thorium-228	1.86E+00		3.31E-01	1.74E-02	3.38E-02	3.38E+00
BP-29-SUR	Thorium-228	2.11E+00		3.75E-01	1.90E-02	3.38E-02	3.38E+00
BP-30-SUR	Thorium-228	2.40E+00		4.26E-01	2.00E-02	3.38E-02	3.38E+00
BP-31-SUR	Thorium-228	2.15E+00		3.85E-01	1.69E-02	3.38E-02	3.38E+00
BP-32-SUR	Thorium-228	2.45E+00		4.37E-01	3.20E-02	3.38E-02	3.38E+00
BP-33-SUR	Thorium-228	2.26E+00		4.02E-01	2.45E-02	3.38E-02	3.38E+00
BP-34-SUR	Thorium-228	2.47E+00		4.36E-01	1.49E-02	3.38E-02	3.38E+00
BP-35-SUR	Thorium-228	2.56E+00		4.76E-01	6.44E-02	3.38E-02	3.38E+00
BP-36-SUR	Thorium-228	2.20E+00		3.97E-01	2.93E-02	3.38E-02	3.38E+00
BP-37-SUR	Thorium-228	2.72E+00		4.98E-01	3.41E-02	3.38E-02	3.38E+00
BP-38-SUR	Thorium-228	1.84E+00		3.40E-01	3.08E-02	3.38E-02	3.38E+00
BP-39-SUR	Thorium-228	1.93E+00		3.49E-01	2.70E-02	3.38E-02	3.38E+00
BP-40-SUR	Thorium-228	1.98E+00		3.65E-01	3.18E-02	3.38E-02	3.38E+00
BP-41-SUR	Thorium-228	2.02E+00		3.60E-01	1.82E-02	3.38E-02	3.38E+00
BP-42-SUR	Thorium-228	2.15E+00		3.88E-01	2.47E-02	3.38E-02	3.38E+00

Table 6.51 - Thorium-228 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-228	2.22E+00		4.03E-01	2.93E-02	3.38E-02	3.38E+00
BP-44-SUR	Thorium-228	1.97E+00		3.65E-01	3.63E-02	3.38E-02	3.38E+00
BP-45-SUR	Thorium-228	2.18E+00		3.97E-01	2.46E-02	3.38E-02	3.38E+00
BP-46-SUR	Thorium-228	2.35E+00		4.34E-01	5.39E-02	3.38E-02	3.38E+00
BP-47-SUR	Thorium-228	2.03E+00		3.76E-01	4.34E-02	3.38E-02	3.38E+00
BP-48-SUR	Thorium-228	2.38E+00		4.27E-01	2.56E-02	3.38E-02	3.38E+00
BP-49-SUR	Thorium-228	2.41E+00		4.34E-01	3.93E-02	3.38E-02	3.38E+00
BP-50-SUR	Thorium-228	2.20E+00		4.11E-01	2.06E-02	3.38E-02	3.38E+00
BP-51-SUR	Thorium-228	2.21E+00		4.11E-01	5.73E-02	3.38E-02	3.38E+00
BP-52-SUR	Thorium-228	1.78E+00		3.26E-01	3.05E-02	3.38E-02	3.38E+00
BP-53-SUR	Thorium-228	1.91E+00		3.49E-01	4.28E-02	3.38E-02	3.38E+00
BP-54-SUR	Thorium-228	1.70E+00		3.15E-01	3.04E-02	3.38E-02	3.38E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-228	2.27E+00		4.10E-01	4.19E-02	3.38E-02	3.38E+00
BP-4-SUB	Thorium-228	1.89E+00		3.44E-01	2.56E-02	3.38E-02	3.38E+00
BP-5-SUB	Thorium-228	2.24E+00		4.01E-01	2.61E-02	3.38E-02	3.38E+00
BP-9-SUB	Thorium-228	3.55E+00		6.28E-01	3.70E-02	3.38E-02	3.38E+00
BP-12-SUB	Thorium-228	2.49E+00		4.49E-01	2.91E-02	3.38E-02	3.38E+00
BP-13-SUB	Thorium-228	3.05E+00		5.36E-01	1.97E-02	3.38E-02	3.38E+00
BP-14-SUB	Thorium-228	1.70E+00		3.16E-01	3.02E-02	3.38E-02	3.38E+00
BP-16-SUB	Thorium-228	3.21E+00		5.68E-01	2.53E-02	3.38E-02	3.38E+00
BP-20-SUB	Thorium-228	1.76E+00		3.21E-01	2.58E-02	3.38E-02	3.38E+00
BP-23-SUB	Thorium-228	2.30E+00		4.11E-01	1.85E-02	3.38E-02	3.38E+00
BP-29-SUB	Thorium-228	1.74E+00		3.18E-01	2.91E-02	3.38E-02	3.38E+00
BP-34-SUB	Thorium-228	3.84E+00		6.86E-01	5.13E-02	3.38E-02	3.38E+00
BP-35-SUB	Thorium-228	3.14E+00		5.56E-01	3.70E-02	3.38E-02	3.38E+00
BP-38-SUB	Thorium-228	1.83E+00		3.41E-01	1.65E-02	3.38E-02	3.38E+00
BP-43-SUB	Thorium-228	1.81E+00		3.26E-01	2.18E-02	3.38E-02	3.38E+00
BP-45-SUB	Thorium-228	2.81E+00		5.29E-01	5.97E-02	3.38E-02	3.38E+00
BP-46-SUB	Thorium-228	2.58E+00		4.59E-01	3.23E-02	3.38E-02	3.38E+00
BP-48-SUB	Thorium-228	2.15E+00		3.90E-01	2.17E-02	3.38E-02	3.38E+00
BP-50-SUB	Thorium-228	2.43E+00		4.35E-01	2.68E-02	3.38E-02	3.38E+00
BP-51-SUB	Thorium-228	3.96E+00		6.94E-01	2.27E-02	3.38E-02	3.38E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.52 - Thorium-229 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-229	-3.68E-02	U	4.53E-02	1.47E-01	1.71E-03	1.71E-01
LR-2-SUR	Thorium-229	2.08E-02		1.98E-02	3.75E-02	1.71E-03	1.71E-01
LR-3-SUR	Thorium-229	-1.21E-01	UK	1.40E-01	3.95E-01	1.71E-03	1.71E-01
LR-4-SUR	Thorium-229	1.11E-02	U	1.90E-02	4.27E-02	1.71E-03	1.71E-01
LR-5-SUR	Thorium-229	-3.31E-03	U	4.18E-02	1.01E-01	1.71E-03	1.71E-01
LR-6-SUR	Thorium-229	2.71E-02		2.46E-02	4.52E-02	1.71E-03	1.71E-01
LR-7-SUR	Thorium-229	2.87E-03	U	1.07E-02	2.44E-02	1.71E-03	1.71E-01
LR-8-SUR	Thorium-229	0.00E+00	U	7.03E-02	1.80E-01	1.71E-03	1.71E-01
LR-9-SUR	Thorium-229	9.92E-03	U	1.97E-02	4.26E-02	1.71E-03	1.71E-01
LR-10-SUR	Thorium-229	-8.12E-03	U	1.31E-02	3.89E-02	1.71E-03	1.71E-01
LR-11-SUR	Thorium-229	4.10E-03	U	1.11E-02	2.50E-02	1.71E-03	1.71E-01
LR-12-SUR	Thorium-229	2.24E-02		2.08E-02	3.87E-02	1.71E-03	1.71E-01
LR-13-SUR	Thorium-229	1.61E-03	U	1.87E-02	4.50E-02	1.71E-03	1.71E-01
LR-14-SUR	Thorium-229	1.46E-02	U	1.78E-02	3.35E-02	1.71E-03	1.71E-01
LR-15-SUR	Thorium-229	2.20E-02	U	4.13E-02	9.23E-02	1.71E-03	1.71E-01
LR-16-SUR	Thorium-229	1.79E-02		1.42E-02	2.49E-02	1.71E-03	1.71E-01
LR-17-SUR	Thorium-229	5.04E-03	U	2.06E-02	4.69E-02	1.71E-03	1.71E-01
LR-18-SUR	Thorium-229	4.19E-03	U	2.18E-02	5.27E-02	1.71E-03	1.71E-01
LR-19-SUR	Thorium-229	-4.97E-03	U	3.35E-02	8.17E-02	1.71E-03	1.71E-01
LR-20-SUR	Thorium-229	2.32E-02		1.49E-02	2.32E-02	1.71E-03	1.71E-01
LR-21-SUR	Thorium-229	1.57E-02	U	3.97E-02	8.79E-02	1.71E-03	1.71E-01
LR-22-SUR	Thorium-229	6.82E-03	U	2.50E-02	6.37E-02	1.71E-03	1.71E-01
LR-23-SUR	Thorium-229	2.09E-02	U	2.63E-02	5.04E-02	1.71E-03	1.71E-01
LR-24-SUR	Thorium-229	-7.55E-03	U	1.43E-02	4.21E-02	1.71E-03	1.71E-01
LR-25-SUR	Thorium-229	1.88E-02	U	2.02E-02	3.60E-02	1.71E-03	1.71E-01
LR-26-SUR	Thorium-229	2.95E-02		2.14E-02	2.79E-02	1.71E-03	1.71E-01
LR-27-SUR	Thorium-229	1.17E-02		7.78E-03	1.13E-02	1.71E-03	1.71E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-229	-9.63E-03	U	1.37E-02	3.84E-02	1.71E-03	1.71E-01
LR-4-SUB	Thorium-229	6.39E-03	U	8.37E-03	1.72E-02	1.71E-03	1.71E-01
LR-9-SUB	Thorium-229	1.12E-02	U	1.43E-02	2.96E-02	1.71E-03	1.71E-01
LR-13-SUB	Thorium-229	8.45E-03	U	2.59E-02	6.05E-02	1.71E-03	1.71E-01
LR-15-SUB	Thorium-229	8.94E-03	U	3.72E-02	8.57E-02	1.71E-03	1.71E-01
LR-18-SUB	Thorium-229	2.17E-03	U	1.65E-02	3.98E-02	1.71E-03	1.71E-01
LR-19-SUB	Thorium-229	2.76E-02		2.69E-02	5.05E-02	1.71E-03	1.71E-01
LR-23-SUB	Thorium-229	5.97E-03	U	9.38E-03	2.03E-02	1.71E-03	1.71E-01
LR-24-SUB	Thorium-229	-7.34E-03	U	3.81E-02	1.12E-01	1.71E-03	1.71E-01
LR-26-SUB	Thorium-229	1.76E-02		1.53E-02	2.78E-02	1.71E-03	1.71E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-229	1.14E-02	U	1.65E-02	3.17E-02	1.71E-03	1.71E-01
RP-2-SUR	Thorium-229	1.65E-02	U	1.66E-02	2.75E-02	1.71E-03	1.71E-01
RP-3-SUR	Thorium-229	1.53E-02		1.44E-02	2.12E-02	1.71E-03	1.71E-01
RP-4-SUR	Thorium-229	1.55E-02	U	1.84E-02	3.24E-02	1.71E-03	1.71E-01
RP-5-SUR	Thorium-229	4.48E-03	U	2.14E-02	5.04E-02	1.71E-03	1.71E-01
RP-6-SUR	Thorium-229	3.18E-02		1.43E-02	1.69E-02	1.71E-03	1.71E-01
RP-7-SUR	Thorium-229	1.76E-02	U	2.42E-02	4.56E-02	1.71E-03	1.71E-01
RP-8-SUR	Thorium-229	6.85E-03	U	1.43E-02	2.94E-02	1.71E-03	1.71E-01
RP-9-SUR	Thorium-229	-2.85E-03	U	1.19E-02	3.24E-02	1.71E-03	1.71E-01
RP-10-SUR	Thorium-229	3.71E-03	U	1.30E-02	3.10E-02	1.71E-03	1.71E-01
RP-11-SUR	Thorium-229	3.67E-03	U	1.32E-02	3.23E-02	1.71E-03	1.71E-01
RP-12-SUR	Thorium-229	9.64E-03	U	1.81E-02	3.71E-02	1.71E-03	1.71E-01
RP-13-SUR	Thorium-229	9.27E-03	U	1.58E-02	3.25E-02	1.71E-03	1.71E-01
RP-14-SUR	Thorium-229	3.86E-02		2.71E-02	3.09E-02	1.71E-03	1.71E-01
RP-15-SUR	Thorium-229	1.24E-02		1.13E-02	2.10E-02	1.71E-03	1.71E-01
RP-16-SUR	Thorium-229	8.57E-03	U	1.42E-02	3.00E-02	1.71E-03	1.71E-01
RP-17-SUR	Thorium-229	-4.99E-03	U	1.06E-02	3.11E-02	1.71E-03	1.71E-01
RP-18-SUR	Thorium-229	1.43E-02	U	2.19E-02	4.21E-02	1.71E-03	1.71E-01
RP-19-SUR	Thorium-229	2.76E-02		2.51E-02	4.60E-02	1.71E-03	1.71E-01
RP-20-SUR	Thorium-229	6.94E-03	U	1.34E-02	2.77E-02	1.71E-03	1.71E-01
RP-21-SUR	Thorium-229	2.30E-02		1.95E-02	3.51E-02	1.71E-03	1.71E-01

Table 6.52 - Thorium-229 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-229	1.29E-02	U	1.56E-02	2.90E-02	1.71E-03	1.71E-01
RP-23-SUR	Thorium-229	2.95E-03	U	1.24E-02	2.77E-02	1.71E-03	1.71E-01
RP-24-SUR	Thorium-229	8.92E-03	U	1.10E-02	2.22E-02	1.71E-03	1.71E-01
RP-25-SUR	Thorium-229	7.87E-03	U	1.08E-02	2.15E-02	1.71E-03	1.71E-01
RP-26-SUR	Thorium-229	1.23E-02	U	1.84E-02	3.70E-02	1.71E-03	1.71E-01
RP-27-SUR	Thorium-229	1.28E-02	U	1.46E-02	2.67E-02	1.71E-03	1.71E-01
RP-28-SUR	Thorium-229	1.03E-02	U	1.80E-02	3.80E-02	1.71E-03	1.71E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-229	1.15E-02	U	1.44E-02	2.91E-02	1.71E-03	1.71E-01
RP-5-SUB	Thorium-229	4.35E-02		2.96E-02	4.71E-02	1.71E-03	1.71E-01
RP-7-SUB	Thorium-229	2.00E-02		1.30E-02	2.06E-02	1.71E-03	1.71E-01
RP-12-SUB	Thorium-229	-2.35E-04	U	1.18E-02	3.18E-02	1.71E-03	1.71E-01
RP-13-SUB	Thorium-229	2.17E-02		1.57E-02	2.65E-02	1.71E-03	1.71E-01
RP-17-SUB	Thorium-229	3.41E-02		1.68E-02	1.83E-02	1.71E-03	1.71E-01
RP-18-SUB	Thorium-229	4.45E-02		2.96E-02	4.75E-02	1.71E-03	1.71E-01
RP-19-SUB	Thorium-229	2.25E-03	U	1.32E-02	3.44E-02	1.71E-03	1.71E-01
RP-20-SUB	Thorium-229	1.74E-02		1.32E-02	2.15E-02	1.71E-03	1.71E-01
RP-28-SUB	Thorium-229	7.92E-03	U	1.65E-02	3.84E-02	1.71E-03	1.71E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-229	8.27E-03	U	1.24E-02	2.48E-02	1.71E-03	1.71E-01
BP-2-SUR	Thorium-229	1.69E-02		1.39E-02	2.45E-02	1.71E-03	1.71E-01
BP-3-SUR	Thorium-229	1.47E-02		1.08E-02	1.83E-02	1.71E-03	1.71E-01
BP-4-SUR	Thorium-229	1.27E-02		1.02E-02	1.78E-02	1.71E-03	1.71E-01
BP-5-SUR	Thorium-229	2.41E-02		1.30E-02	1.77E-02	1.71E-03	1.71E-01
BP-6-SUR	Thorium-229	6.99E-03	U	1.08E-02	2.28E-02	1.71E-03	1.71E-01
BP-7-SUR	Thorium-229	2.47E-02		1.42E-02	2.15E-02	1.71E-03	1.71E-01
BP-8-SUR	Thorium-229	1.27E-02		1.23E-02	2.34E-02	1.71E-03	1.71E-01
BP-9-SUR	Thorium-229	2.27E-02		1.57E-02	2.59E-02	1.71E-03	1.71E-01
BP-10-SUR	Thorium-229	2.36E-02		1.50E-02	2.37E-02	1.71E-03	1.71E-01
BP-11-SUR	Thorium-229	2.69E-02		1.51E-02	2.26E-02	1.71E-03	1.71E-01
BP-12-SUR	Thorium-229	4.47E-03	U	9.58E-03	2.25E-02	1.71E-03	1.71E-01
BP-13-SUR	Thorium-229	1.31E-02		1.13E-02	2.03E-02	1.71E-03	1.71E-01
BP-14-SUR	Thorium-229	1.44E-02	U	1.63E-02	3.12E-02	1.71E-03	1.71E-01
BP-15-SUR	Thorium-229	7.52E-03	U	9.78E-03	2.04E-02	1.71E-03	1.71E-01
BP-16-SUR	Thorium-229	4.30E-03	U	1.04E-02	2.23E-02	1.71E-03	1.71E-01
BP-17-SUR	Thorium-229	8.40E-03	U	1.10E-02	2.22E-02	1.71E-03	1.71E-01
BP-18-SUR	Thorium-229	1.03E-02	U	1.58E-02	3.23E-02	1.71E-03	1.71E-01
BP-19-SUR	Thorium-229	2.15E-02		1.46E-02	2.32E-02	1.71E-03	1.71E-01
BP-20-SUR	Thorium-229	1.71E-02		1.05E-02	1.62E-02	1.71E-03	1.71E-01
BP-21-SUR	Thorium-229	3.44E-02		1.42E-02	1.25E-02	1.71E-03	1.71E-01
BP-22-SUR	Thorium-229	1.56E-02		1.00E-02	1.57E-02	1.71E-03	1.71E-01
BP-23-SUR	Thorium-229	9.91E-03		9.06E-03	1.69E-02	1.71E-03	1.71E-01
BP-24-SUR	Thorium-229	1.27E-02		9.23E-03	1.44E-02	1.71E-03	1.71E-01
BP-25-SUR	Thorium-229	1.86E-02		1.18E-02	1.82E-02	1.71E-03	1.71E-01
BP-26-SUR	Thorium-229	1.34E-02		1.01E-02	1.71E-02	1.71E-03	1.71E-01
BP-27-SUR	Thorium-229	2.35E-02		1.23E-02	1.64E-02	1.71E-03	1.71E-01
BP-28-SUR	Thorium-229	1.72E-02		9.86E-03	1.35E-02	1.71E-03	1.71E-01
BP-29-SUR	Thorium-229	1.67E-02		1.16E-02	1.92E-02	1.71E-03	1.71E-01
BP-30-SUR	Thorium-229	1.73E-02		1.01E-02	1.32E-02	1.71E-03	1.71E-01
BP-31-SUR	Thorium-229	1.82E-02		1.00E-02	7.82E-03	1.71E-03	1.71E-01
BP-32-SUR	Thorium-229	1.83E-02		1.25E-02	2.01E-02	1.71E-03	1.71E-01
BP-33-SUR	Thorium-229	2.28E-02		1.35E-02	2.02E-02	1.71E-03	1.71E-01
BP-34-SUR	Thorium-229	2.11E-02		1.21E-02	1.78E-02	1.71E-03	1.71E-01
BP-35-SUR	Thorium-229	3.29E-02		2.14E-02	3.05E-02	1.71E-03	1.71E-01
BP-36-SUR	Thorium-229	1.75E-02		1.40E-02	2.47E-02	1.71E-03	1.71E-01
BP-37-SUR	Thorium-229	1.88E-02		1.49E-02	2.50E-02	1.71E-03	1.71E-01
BP-38-SUR	Thorium-229	2.62E-02		1.79E-02	2.90E-02	1.71E-03	1.71E-01
BP-39-SUR	Thorium-229	2.22E-02		1.44E-02	2.27E-02	1.71E-03	1.71E-01
BP-40-SUR	Thorium-229	2.61E-02		1.74E-02	2.75E-02	1.71E-03	1.71E-01
BP-41-SUR	Thorium-229	1.35E-02		9.08E-03	1.41E-02	1.71E-03	1.71E-01
BP-42-SUR	Thorium-229	1.80E-02		1.42E-02	2.48E-02	1.71E-03	1.71E-01

Table 6.52 - Thorium-229 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-229	2.85E-02		1.57E-02	1.92E-02	1.71E-03	1.71E-01
BP-44-SUR	Thorium-229	3.80E-02		2.05E-02	2.66E-02	1.71E-03	1.71E-01
BP-45-SUR	Thorium-229	1.70E-02		1.15E-02	1.13E-02	1.71E-03	1.71E-01
BP-46-SUR	Thorium-229	7.17E-03	U	1.41E-02	3.36E-02	1.71E-03	1.71E-01
BP-47-SUR	Thorium-229	1.39E-02	U	1.73E-02	3.55E-02	1.71E-03	1.71E-01
BP-48-SUR	Thorium-229	2.44E-02		1.35E-02	1.67E-02	1.71E-03	1.71E-01
BP-49-SUR	Thorium-229	2.15E-02		1.53E-02	2.53E-02	1.71E-03	1.71E-01
BP-50-SUR	Thorium-229	4.50E-02		2.71E-02	4.05E-02	1.71E-03	1.71E-01
BP-51-SUR	Thorium-229	3.30E-02		2.01E-02	2.70E-02	1.71E-03	1.71E-01
BP-52-SUR	Thorium-229	1.03E-02	U	1.25E-02	2.56E-02	1.71E-03	1.71E-01
BP-53-SUR	Thorium-229	2.24E-02		1.52E-02	2.42E-02	1.71E-03	1.71E-01
BP-54-SUR	Thorium-229	2.18E-03	U	1.11E-02	2.86E-02	1.71E-03	1.71E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-229	1.36E-02		1.27E-02	2.39E-02	1.71E-03	1.71E-01
BP-4-SUB	Thorium-229	9.45E-03	U	1.17E-02	2.41E-02	1.71E-03	1.71E-01
BP-5-SUB	Thorium-229	1.87E-02		1.33E-02	2.21E-02	1.71E-03	1.71E-01
BP-9-SUB	Thorium-229	2.41E-02		1.38E-02	1.76E-02	1.71E-03	1.71E-01
BP-12-SUB	Thorium-229	3.12E-02		1.79E-02	2.53E-02	1.71E-03	1.71E-01
BP-13-SUB	Thorium-229	2.30E-02		1.20E-02	1.53E-02	1.71E-03	1.71E-01
BP-14-SUB	Thorium-229	2.42E-02		1.80E-02	3.06E-02	1.71E-03	1.71E-01
BP-16-SUB	Thorium-229	2.03E-02		1.23E-02	1.66E-02	1.71E-03	1.71E-01
BP-20-SUB	Thorium-229	2.56E-02		1.42E-02	1.90E-02	1.71E-03	1.71E-01
BP-23-SUB	Thorium-229	2.39E-02		1.21E-02	8.56E-03	1.71E-03	1.71E-01
BP-29-SUB	Thorium-229	2.04E-02		1.47E-02	2.46E-02	1.71E-03	1.71E-01
BP-34-SUB	Thorium-229	3.88E-02		2.25E-02	3.21E-02	1.71E-03	1.71E-01
BP-35-SUB	Thorium-229	1.86E-02		1.41E-02	2.40E-02	1.71E-03	1.71E-01
BP-38-SUB	Thorium-229	9.64E-03	U	1.49E-02	3.26E-02	1.71E-03	1.71E-01
BP-43-SUB	Thorium-229	1.74E-02		1.06E-02	1.43E-02	1.71E-03	1.71E-01
BP-45-SUB	Thorium-229	3.49E-02		2.44E-02	3.72E-02	1.71E-03	1.71E-01
BP-46-SUB	Thorium-229	1.62E-02		1.20E-02	2.02E-02	1.71E-03	1.71E-01
BP-48-SUB	Thorium-229	1.79E-02		1.11E-02	1.00E-02	1.71E-03	1.71E-01
BP-50-SUB	Thorium-229	4.43E-03	U	9.61E-03	2.25E-02	1.71E-03	1.71E-01
BP-51-SUB	Thorium-229	3.09E-02		1.44E-02	1.48E-02	1.71E-03	1.71E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.53 - Thorium-230 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-230	1.33E+00		3.23E-01	4.72E-02	1.05E-02	1.05E+00
LR-2-SUR	Thorium-230	1.04E+00		2.03E-01	2.60E-02	1.05E-02	1.05E+00
LR-3-SUR	Thorium-230	8.95E-01	K	3.07E-01	2.40E-01	1.05E-02	1.05E+00
LR-4-SUR	Thorium-230	1.28E+00		2.47E-01	1.67E-02	1.05E-02	1.05E+00
LR-5-SUR	Thorium-230	1.30E+00		2.71E-01	6.20E-02	1.05E-02	1.05E+00
LR-6-SUR	Thorium-230	1.20E+00		2.50E-01	4.93E-02	1.05E-02	1.05E+00
LR-7-SUR	Thorium-230	1.17E+00		2.13E-01	1.60E-02	1.05E-02	1.05E+00
LR-8-SUR	Thorium-230	1.45E+00		3.47E-01	1.30E-01	1.05E-02	1.05E+00
LR-9-SUR	Thorium-230	1.32E+00		2.62E-01	3.69E-02	1.05E-02	1.05E+00
LR-10-SUR	Thorium-230	1.30E+00		2.50E-01	3.10E-02	1.05E-02	1.05E+00
LR-11-SUR	Thorium-230	7.24E-01		1.38E-01	2.24E-02	1.05E-02	1.05E+00
LR-12-SUR	Thorium-230	1.07E+00		2.06E-01	3.43E-02	1.05E-02	1.05E+00
LR-13-SUR	Thorium-230	1.13E+00		2.25E-01	1.45E-02	1.05E-02	1.05E+00
LR-14-SUR	Thorium-230	1.02E+00		2.04E-01	2.75E-02	1.05E-02	1.05E+00
LR-15-SUR	Thorium-230	9.89E-01		2.25E-01	8.60E-02	1.05E-02	1.05E+00
LR-16-SUR	Thorium-230	1.19E+00		2.20E-01	1.87E-02	1.05E-02	1.05E+00
LR-17-SUR	Thorium-230	1.21E+00		2.40E-01	2.86E-02	1.05E-02	1.05E+00
LR-18-SUR	Thorium-230	1.34E+00		2.72E-01	3.62E-02	1.05E-02	1.05E+00
LR-19-SUR	Thorium-230	1.33E+00		2.68E-01	4.96E-02	1.05E-02	1.05E+00
LR-20-SUR	Thorium-230	1.18E+00		2.18E-01	2.51E-02	1.05E-02	1.05E+00
LR-21-SUR	Thorium-230	9.84E-01		2.14E-01	6.45E-02	1.05E-02	1.05E+00
LR-22-SUR	Thorium-230	1.45E+00		3.10E-01	5.38E-02	1.05E-02	1.05E+00
LR-23-SUR	Thorium-230	1.35E+00		2.77E-01	3.95E-02	1.05E-02	1.05E+00
LR-24-SUR	Thorium-230	1.20E+00		2.36E-01	1.36E-02	1.05E-02	1.05E+00
LR-25-SUR	Thorium-230	1.16E+00		2.30E-01	2.96E-02	1.05E-02	1.05E+00
LR-26-SUR	Thorium-230	1.18E+00		2.34E-01	2.40E-02	1.05E-02	1.05E+00
LR-27-SUR	Thorium-230	1.26E+00		2.27E-01	1.13E-02	1.05E-02	1.05E+00
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-230	1.46E+00		2.69E-01	2.05E-02	1.05E-02	1.05E+00
LR-4-SUB	Thorium-230	1.27E+00		2.26E-01	1.27E-02	1.05E-02	1.05E+00
LR-9-SUB	Thorium-230	9.90E-01		1.88E-01	2.74E-02	1.05E-02	1.05E+00
LR-13-SUB	Thorium-230	1.40E+00		2.75E-01	4.88E-02	1.05E-02	1.05E+00
LR-15-SUB	Thorium-230	1.20E+00		2.51E-01	6.28E-02	1.05E-02	1.05E+00
LR-18-SUB	Thorium-230	1.26E+00		2.38E-01	2.31E-02	1.05E-02	1.05E+00
LR-19-SUB	Thorium-230	1.33E+00		2.56E-01	3.47E-02	1.05E-02	1.05E+00
LR-23-SUB	Thorium-230	1.42E+00		2.55E-01	1.89E-02	1.05E-02	1.05E+00
LR-24-SUB	Thorium-230	2.04E+00		4.22E-01	8.44E-02	1.05E-02	1.05E+00
LR-26-SUB	Thorium-230	1.46E+00		2.66E-01	2.01E-02	1.05E-02	1.05E+00
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-230	7.17E-01		1.49E-01	1.10E-02	1.05E-02	1.05E+00
RP-2-SUR	Thorium-230	7.28E-01		1.53E-01	2.28E-02	1.05E-02	1.05E+00
RP-3-SUR	Thorium-230	7.08E-01		1.50E-01	1.84E-02	1.05E-02	1.05E+00
RP-4-SUR	Thorium-230	1.34E+00		2.70E-01	3.28E-02	1.05E-02	1.05E+00
RP-5-SUR	Thorium-230	1.35E+00		2.74E-01	3.16E-02	1.05E-02	1.05E+00
RP-6-SUR	Thorium-230	1.57E+00		2.80E-01	6.81E-03	1.05E-02	1.05E+00
RP-7-SUR	Thorium-230	1.37E+00		2.75E-01	3.48E-02	1.05E-02	1.05E+00
RP-8-SUR	Thorium-230	7.19E-01		1.46E-01	2.13E-02	1.05E-02	1.05E+00
RP-9-SUR	Thorium-230	6.84E-01		1.43E-01	2.20E-02	1.05E-02	1.05E+00
RP-10-SUR	Thorium-230	8.17E-01		1.69E-01	1.89E-02	1.05E-02	1.05E+00
RP-11-SUR	Thorium-230	7.58E-01		1.62E-01	2.82E-02	1.05E-02	1.05E+00
RP-12-SUR	Thorium-230	1.22E+00		2.40E-01	1.29E-02	1.05E-02	1.05E+00
RP-13-SUR	Thorium-230	1.27E+00		2.52E-01	2.70E-02	1.05E-02	1.05E+00
RP-14-SUR	Thorium-230	1.47E+00		2.94E-01	2.69E-02	1.05E-02	1.05E+00
RP-15-SUR	Thorium-230	1.29E+00		2.35E-01	1.73E-02	1.05E-02	1.05E+00
RP-16-SUR	Thorium-230	1.43E+00		2.62E-01	1.74E-02	1.05E-02	1.05E+00
RP-17-SUR	Thorium-230	6.57E-01		1.37E-01	2.26E-02	1.05E-02	1.05E+00
RP-18-SUR	Thorium-230	1.11E+00		2.23E-01	2.86E-02	1.05E-02	1.05E+00
RP-19-SUR	Thorium-230	1.35E+00		2.57E-01	3.16E-02	1.05E-02	1.05E+00
RP-20-SUR	Thorium-230	1.29E+00		2.41E-01	2.18E-02	1.05E-02	1.05E+00
RP-21-SUR	Thorium-230	1.43E+00		2.65E-01	3.33E-02	1.05E-02	1.05E+00

Table 6.53 - Thorium-230 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-230	1.29E+00		2.43E-01	2.02E-02	1.05E-02	1.05E+00
RP-23-SUR	Thorium-230	6.16E-01		1.24E-01	2.03E-02	1.05E-02	1.05E+00
RP-24-SUR	Thorium-230	7.69E-01		1.45E-01	1.95E-02	1.05E-02	1.05E+00
RP-25-SUR	Thorium-230	7.57E-01		1.50E-01	1.76E-02	1.05E-02	1.05E+00
RP-26-SUR	Thorium-230	1.47E+00		2.82E-01	2.90E-02	1.05E-02	1.05E+00
RP-27-SUR	Thorium-230	8.88E-01		1.73E-01	1.64E-02	1.05E-02	1.05E+00
RP-28-SUR	Thorium-230	1.50E+00		2.77E-01	3.42E-02	1.05E-02	1.05E+00
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-230	1.47E+00		2.68E-01	2.35E-02	1.05E-02	1.05E+00
RP-5-SUB	Thorium-230	1.41E+00		2.74E-01	2.01E-02	1.05E-02	1.05E+00
RP-7-SUB	Thorium-230	1.48E+00		2.66E-01	1.55E-02	1.05E-02	1.05E+00
RP-12-SUB	Thorium-230	1.51E+00		2.85E-01	2.84E-02	1.05E-02	1.05E+00
RP-13-SUB	Thorium-230	9.51E-01		1.76E-01	7.66E-03	1.05E-02	1.05E+00
RP-17-SUB	Thorium-230	1.03E+00		1.94E-01	2.16E-02	1.05E-02	1.05E+00
RP-18-SUB	Thorium-230	9.17E-01		1.86E-01	3.64E-02	1.05E-02	1.05E+00
RP-19-SUB	Thorium-230	7.63E-01		1.53E-01	2.75E-02	1.05E-02	1.05E+00
RP-20-SUB	Thorium-230	8.57E-01		1.67E-01	3.09E-02	1.05E-02	1.05E+00
RP-28-SUB	Thorium-230	8.71E-01		1.74E-01	2.67E-02	1.05E-02	1.05E+00
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-230	1.46E+00		2.60E-01	1.77E-02	1.05E-02	1.05E+00
BP-2-SUR	Thorium-230	1.59E+00		2.84E-01	1.81E-02	1.05E-02	1.05E+00
BP-3-SUR	Thorium-230	1.59E+00		2.84E-01	1.46E-02	1.05E-02	1.05E+00
BP-4-SUR	Thorium-230	1.34E+00		2.44E-01	1.50E-02	1.05E-02	1.05E+00
BP-5-SUR	Thorium-230	1.34E+00		2.42E-01	1.30E-02	1.05E-02	1.05E+00
BP-6-SUR	Thorium-230	1.51E+00		2.72E-01	1.40E-02	1.05E-02	1.05E+00
BP-7-SUR	Thorium-230	1.64E+00		2.92E-01	1.71E-02	1.05E-02	1.05E+00
BP-8-SUR	Thorium-230	1.61E+00		2.90E-01	1.68E-02	1.05E-02	1.05E+00
BP-9-SUR	Thorium-230	1.56E+00		2.81E-01	1.99E-02	1.05E-02	1.05E+00
BP-10-SUR	Thorium-230	1.58E+00		2.83E-01	1.45E-02	1.05E-02	1.05E+00
BP-11-SUR	Thorium-230	1.52E+00		2.72E-01	1.81E-02	1.05E-02	1.05E+00
BP-12-SUR	Thorium-230	1.48E+00		2.68E-01	1.62E-02	1.05E-02	1.05E+00
BP-13-SUR	Thorium-230	1.45E+00		2.58E-01	1.19E-02	1.05E-02	1.05E+00
BP-14-SUR	Thorium-230	1.27E+00		2.31E-01	2.42E-02	1.05E-02	1.05E+00
BP-15-SUR	Thorium-230	1.23E+00		2.23E-01	1.71E-02	1.05E-02	1.05E+00
BP-16-SUR	Thorium-230	1.18E+00		2.12E-01	1.51E-02	1.05E-02	1.05E+00
BP-17-SUR	Thorium-230	1.33E+00		2.39E-01	1.97E-02	1.05E-02	1.05E+00
BP-18-SUR	Thorium-230	1.54E+00		2.80E-01	2.82E-02	1.05E-02	1.05E+00
BP-19-SUR	Thorium-230	1.36E+00		2.50E-01	2.08E-02	1.05E-02	1.05E+00
BP-20-SUR	Thorium-230	1.25E+00		2.24E-01	1.50E-02	1.05E-02	1.05E+00
BP-21-SUR	Thorium-230	1.42E+00		2.55E-01	1.48E-02	1.05E-02	1.05E+00
BP-22-SUR	Thorium-230	1.15E+00		2.06E-01	1.29E-02	1.05E-02	1.05E+00
BP-23-SUR	Thorium-230	1.23E+00		2.21E-01	1.35E-02	1.05E-02	1.05E+00
BP-24-SUR	Thorium-230	1.21E+00		2.21E-01	2.07E-02	1.05E-02	1.05E+00
BP-25-SUR	Thorium-230	1.31E+00		2.36E-01	1.27E-02	1.05E-02	1.05E+00
BP-26-SUR	Thorium-230	1.42E+00		2.55E-01	1.57E-02	1.05E-02	1.05E+00
BP-27-SUR	Thorium-230	1.41E+00		2.53E-01	1.46E-02	1.05E-02	1.05E+00
BP-28-SUR	Thorium-230	1.09E+00		1.97E-01	9.78E-03	1.05E-02	1.05E+00
BP-29-SUR	Thorium-230	1.25E+00		2.26E-01	1.24E-02	1.05E-02	1.05E+00
BP-30-SUR	Thorium-230	1.31E+00		2.36E-01	1.55E-02	1.05E-02	1.05E+00
BP-31-SUR	Thorium-230	1.19E+00		2.16E-01	1.39E-02	1.05E-02	1.05E+00
BP-32-SUR	Thorium-230	1.29E+00		2.35E-01	1.79E-02	1.05E-02	1.05E+00
BP-33-SUR	Thorium-230	1.17E+00		2.13E-01	1.87E-02	1.05E-02	1.05E+00
BP-34-SUR	Thorium-230	1.33E+00		2.39E-01	1.34E-02	1.05E-02	1.05E+00
BP-35-SUR	Thorium-230	1.25E+00		2.44E-01	4.38E-02	1.05E-02	1.05E+00
BP-36-SUR	Thorium-230	1.21E+00		2.23E-01	1.71E-02	1.05E-02	1.05E+00
BP-37-SUR	Thorium-230	1.26E+00		2.40E-01	1.41E-02	1.05E-02	1.05E+00
BP-38-SUR	Thorium-230	1.10E+00		2.08E-01	2.38E-02	1.05E-02	1.05E+00
BP-39-SUR	Thorium-230	1.08E+00		2.00E-01	2.08E-02	1.05E-02	1.05E+00
BP-40-SUR	Thorium-230	1.14E+00		2.15E-01	2.46E-02	1.05E-02	1.05E+00
BP-41-SUR	Thorium-230	1.26E+00		2.26E-01	1.02E-02	1.05E-02	1.05E+00
BP-42-SUR	Thorium-230	1.20E+00		2.20E-01	1.61E-02	1.05E-02	1.05E+00

Table 6.53 - Thorium-230 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-230	1.15E+00		2.15E-01	2.26E-02	1.05E-02	1.05E+00
BP-44-SUR	Thorium-230	1.14E+00		2.17E-01	2.25E-02	1.05E-02	1.05E+00
BP-45-SUR	Thorium-230	1.24E+00		2.31E-01	2.01E-02	1.05E-02	1.05E+00
BP-46-SUR	Thorium-230	1.25E+00		2.38E-01	3.00E-02	1.05E-02	1.05E+00
BP-47-SUR	Thorium-230	1.06E+00		2.03E-01	3.29E-02	1.05E-02	1.05E+00
BP-48-SUR	Thorium-230	1.45E+00		2.64E-01	1.97E-02	1.05E-02	1.05E+00
BP-49-SUR	Thorium-230	1.25E+00		2.30E-01	2.08E-02	1.05E-02	1.05E+00
BP-50-SUR	Thorium-230	1.17E+00		2.27E-01	3.25E-02	1.05E-02	1.05E+00
BP-51-SUR	Thorium-230	1.10E+00		2.14E-01	3.88E-02	1.05E-02	1.05E+00
BP-52-SUR	Thorium-230	9.96E-01		1.87E-01	1.78E-02	1.05E-02	1.05E+00
BP-53-SUR	Thorium-230	1.06E+00		1.98E-01	2.16E-02	1.05E-02	1.05E+00
BP-54-SUR	Thorium-230	9.15E-01		1.76E-01	2.35E-02	1.05E-02	1.05E+00
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-230	1.46E+00		2.68E-01	2.13E-02	1.05E-02	1.05E+00
BP-4-SUB	Thorium-230	1.14E+00		2.12E-01	1.98E-02	1.05E-02	1.05E+00
BP-5-SUB	Thorium-230	1.21E+00		2.22E-01	2.02E-02	1.05E-02	1.05E+00
BP-9-SUB	Thorium-230	1.67E+00		3.02E-01	2.52E-02	1.05E-02	1.05E+00
BP-12-SUB	Thorium-230	1.23E+00		2.28E-01	2.26E-02	1.05E-02	1.05E+00
BP-13-SUB	Thorium-230	1.44E+00		2.59E-01	1.10E-02	1.05E-02	1.05E+00
BP-14-SUB	Thorium-230	1.05E+00		1.99E-01	1.98E-02	1.05E-02	1.05E+00
BP-16-SUB	Thorium-230	1.49E+00		2.71E-01	1.96E-02	1.05E-02	1.05E+00
BP-20-SUB	Thorium-230	9.42E-01		1.76E-01	1.60E-02	1.05E-02	1.05E+00
BP-23-SUB	Thorium-230	1.33E+00		2.42E-01	1.52E-02	1.05E-02	1.05E+00
BP-29-SUB	Thorium-230	1.00E+00		1.88E-01	1.71E-02	1.05E-02	1.05E+00
BP-34-SUB	Thorium-230	1.76E+00		3.24E-01	2.87E-02	1.05E-02	1.05E+00
BP-35-SUB	Thorium-230	1.43E+00		2.60E-01	1.97E-02	1.05E-02	1.05E+00
BP-38-SUB	Thorium-230	1.25E+00		2.35E-01	2.61E-02	1.05E-02	1.05E+00
BP-43-SUB	Thorium-230	1.13E+00		2.07E-01	1.69E-02	1.05E-02	1.05E+00
BP-45-SUB	Thorium-230	1.22E+00		2.44E-01	3.71E-02	1.05E-02	1.05E+00
BP-46-SUB	Thorium-230	1.30E+00		2.37E-01	1.80E-02	1.05E-02	1.05E+00
BP-48-SUB	Thorium-230	1.17E+00		2.17E-01	1.77E-02	1.05E-02	1.05E+00
BP-50-SUB	Thorium-230	1.33E+00		2.43E-01	2.07E-02	1.05E-02	1.05E+00
BP-51-SUB	Thorium-230	1.72E+00		3.08E-01	1.75E-02	1.05E-02	1.05E+00

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.54 - Thorium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-231	7.48E-02		3.63E-02	2.49E-02	3.31E+03	3.31E+05
LR-2-SUR	Thorium-231	7.51E-02		3.43E-02	3.94E-02	3.31E+03	3.31E+05
LR-3-SUR	Thorium-231	2.83E-02	U	3.23E-02	3.85E-02	3.31E+03	3.31E+05
LR-4-SUR	Thorium-231	8.69E-02		3.64E-02	2.09E-02	3.31E+03	3.31E+05
LR-5-SUR	Thorium-231	7.33E-02		2.91E-02	2.60E-02	3.31E+03	3.31E+05
LR-6-SUR	Thorium-231	8.42E-02		3.46E-02	1.94E-02	3.31E+03	3.31E+05
LR-7-SUR	Thorium-231	7.19E-02		5.11E-02	3.67E-02	3.31E+03	3.31E+05
LR-8-SUR	Thorium-231	6.64E-02		3.31E-02	2.34E-02	3.31E+03	3.31E+05
LR-9-SUR	Thorium-231	4.35E-02		2.78E-02	2.61E-02	3.31E+03	3.31E+05
LR-10-SUR	Thorium-231	6.63E-02		4.72E-02	3.53E-02	3.31E+03	3.31E+05
LR-11-SUR	Thorium-231	3.79E-02	U	3.76E-02	3.86E-02	3.31E+03	3.31E+05
LR-12-SUR	Thorium-231	4.38E-02		3.36E-02	3.49E-02	3.31E+03	3.31E+05
LR-13-SUR	Thorium-231	2.99E-02		2.23E-02	3.76E-02	3.31E+03	3.31E+05
LR-14-SUR	Thorium-231	3.74E-02		3.05E-02	2.55E-02	3.31E+03	3.31E+05
LR-15-SUR	Thorium-231	3.82E-02		3.40E-02	3.12E-02	3.31E+03	3.31E+05
LR-16-SUR	Thorium-231	4.13E-02		2.17E-02	1.65E-02	3.31E+03	3.31E+05
LR-17-SUR	Thorium-231	8.26E-02		5.05E-02	3.06E-02	3.31E+03	3.31E+05
LR-18-SUR	Thorium-231	7.88E-02		5.04E-02	3.22E-02	3.31E+03	3.31E+05
LR-19-SUR	Thorium-231	5.42E-02		3.64E-02	2.53E-02	3.31E+03	3.31E+05
LR-20-SUR	Thorium-231	3.18E-02		2.81E-02	3.79E-02	3.31E+03	3.31E+05
LR-21-SUR	Thorium-231	3.41E-02		2.77E-02	2.38E-02	3.31E+03	3.31E+05
LR-22-SUR	Thorium-231	7.35E-02		2.98E-02	2.74E-02	3.31E+03	3.31E+05
LR-23-SUR	Thorium-231	6.59E-02		2.93E-02	2.97E-02	3.31E+03	3.31E+05
LR-24-SUR	Thorium-231	6.52E-02		3.63E-02	2.89E-02	3.31E+03	3.31E+05
LR-25-SUR	Thorium-231	4.28E-02		2.86E-02	2.97E-02	3.31E+03	3.31E+05
LR-26-SUR	Thorium-231	4.23E-02		3.18E-02	3.71E-02	3.31E+03	3.31E+05
LR-27-SUR	Thorium-231	6.15E-02		3.67E-02	3.71E-02	3.31E+03	3.31E+05
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-231	8.31E-02		4.53E-02	2.67E-02	3.31E+03	3.31E+05
LR-4-SUB	Thorium-231	4.14E-02		2.28E-02	2.86E-02	3.31E+03	3.31E+05
LR-9-SUB	Thorium-231	5.15E-02		3.28E-02	2.32E-02	3.31E+03	3.31E+05
LR-13-SUB	Thorium-231	6.84E-02		3.77E-02	2.26E-02	3.31E+03	3.31E+05
LR-15-SUB	Thorium-231	6.19E-02		3.55E-02	2.23E-02	3.31E+03	3.31E+05
LR-18-SUB	Thorium-231	3.33E-02		2.64E-02	2.36E-02	3.31E+03	3.31E+05
LR-19-SUB	Thorium-231	4.14E-02		3.37E-02	3.10E-02	3.31E+03	3.31E+05
LR-23-SUB	Thorium-231	1.20E-01		5.40E-02	3.71E-02	3.31E+03	3.31E+05
LR-24-SUB	Thorium-231	7.98E-02		3.04E-02	2.60E-02	3.31E+03	3.31E+05
LR-26-SUB	Thorium-231	5.77E-02		3.52E-02	2.36E-02	3.31E+03	3.31E+05
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-231	7.65E-02		4.32E-02	2.47E-02	3.31E+03	3.31E+05
RP-2-SUR	Thorium-231	2.30E-02	U	2.28E-02	2.42E-02	3.31E+03	3.31E+05
RP-3-SUR	Thorium-231	4.34E-02		3.18E-02	3.61E-02	3.31E+03	3.31E+05
RP-4-SUR	Thorium-231	6.24E-02		3.99E-02	2.62E-02	3.31E+03	3.31E+05
RP-5-SUR	Thorium-231	9.20E-02		5.20E-02	2.97E-02	3.31E+03	3.31E+05
RP-6-SUR	Thorium-231	6.29E-02		3.84E-02	2.40E-02	3.31E+03	3.31E+05
RP-7-SUR	Thorium-231	6.33E-02		2.95E-02	2.82E-02	3.31E+03	3.31E+05
RP-8-SUR	Thorium-231	2.99E-02		1.90E-02	1.61E-02	3.31E+03	3.31E+05
RP-9-SUR	Thorium-231	2.40E-02		2.22E-02	2.88E-02	3.31E+03	3.31E+05
RP-10-SUR	Thorium-231	3.00E-02		2.44E-02	2.10E-02	3.31E+03	3.31E+05
RP-11-SUR	Thorium-231	4.59E-02		2.63E-02	3.36E-02	3.31E+03	3.31E+05
RP-12-SUR	Thorium-231	5.90E-02		4.47E-02	3.54E-02	3.31E+03	3.31E+05
RP-13-SUR	Thorium-231	6.88E-02		3.26E-02	1.95E-02	3.31E+03	3.31E+05
RP-14-SUR	Thorium-231	5.36E-02		3.80E-02	2.81E-02	3.31E+03	3.31E+05
RP-15-SUR	Thorium-231	5.28E-02		3.41E-02	3.06E-02	3.31E+03	3.31E+05
RP-16-SUR	Thorium-231	6.72E-02		2.81E-02	1.45E-02	3.31E+03	3.31E+05
RP-17-SUR	Thorium-231	4.29E-02		3.25E-02	2.57E-02	3.31E+03	3.31E+05
RP-18-SUR	Thorium-231	4.48E-02		3.39E-02	2.69E-02	3.31E+03	3.31E+05
RP-19-SUR	Thorium-231	9.95E-02		4.51E-02	2.13E-02	3.31E+03	3.31E+05
RP-20-SUR	Thorium-231	7.06E-02		3.73E-02	2.12E-02	3.31E+03	3.31E+05
RP-21-SUR	Thorium-231	5.56E-02		3.49E-02	3.71E-02	3.31E+03	3.31E+05

Table 6.54 - Thorium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-231	1.03E-01		5.62E-02	3.30E-02	3.31E+03	3.31E+05
RP-23-SUR	Thorium-231	3.56E-02		2.27E-02	1.92E-02	3.31E+03	3.31E+05
RP-24-SUR	Thorium-231	6.55E-02		3.79E-02	3.70E-02	3.31E+03	3.31E+05
RP-25-SUR	Thorium-231	5.07E-02		3.35E-02	3.73E-02	3.31E+03	3.31E+05
RP-26-SUR	Thorium-231	4.67E-02		2.85E-02	1.91E-02	3.31E+03	3.31E+05
RP-27-SUR	Thorium-231	2.04E-02	U	2.05E-02	3.82E-02	3.31E+03	3.31E+05
RP-28-SUR	Thorium-231	1.05E-01		5.54E-02	3.14E-02	3.31E+03	3.31E+05
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-231	6.49E-02		3.91E-02	3.98E-02	3.31E+03	3.31E+05
RP-5-SUB	Thorium-231	4.96E-02		3.17E-02	2.23E-02	3.31E+03	3.31E+05
RP-7-SUB	Thorium-231	6.10E-02		3.32E-02	2.35E-02	3.31E+03	3.31E+05
RP-12-SUB	Thorium-231	7.98E-02		3.32E-02	3.13E-02	3.31E+03	3.31E+05
RP-13-SUB	Thorium-231	3.84E-02		2.91E-02	2.47E-02	3.31E+03	3.31E+05
RP-17-SUB	Thorium-231	7.45E-02		3.30E-02	2.05E-02	3.31E+03	3.31E+05
RP-18-SUB	Thorium-231	5.79E-02		3.20E-02	3.23E-02	3.31E+03	3.31E+05
RP-19-SUB	Thorium-231	3.15E-02		2.51E-02	2.42E-02	3.31E+03	3.31E+05
RP-20-SUB	Thorium-231	5.31E-02		3.17E-02	3.44E-02	3.31E+03	3.31E+05
RP-28-SUB	Thorium-231	9.88E-02		4.66E-02	2.48E-02	3.31E+03	3.31E+05
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-231	1.05E-01		4.86E-02	2.71E-02	3.31E+03	3.31E+05
BP-2-SUR	Thorium-231	6.39E-02		3.00E-02	3.24E-02	3.31E+03	3.31E+05
BP-3-SUR	Thorium-231	7.01E-02		3.31E-02	1.90E-02	3.31E+03	3.31E+05
BP-4-SUR	Thorium-231	6.62E-02		3.43E-02	2.20E-02	3.31E+03	3.31E+05
BP-5-SUR	Thorium-231	6.86E-02		3.06E-02	3.12E-02	3.31E+03	3.31E+05
BP-6-SUR	Thorium-231	7.71E-02		3.62E-02	3.09E-02	3.31E+03	3.31E+05
BP-7-SUR	Thorium-231	9.48E-02		3.96E-02	3.18E-02	3.31E+03	3.31E+05
BP-8-SUR	Thorium-231	6.89E-02		3.34E-02	1.98E-02	3.31E+03	3.31E+05
BP-9-SUR	Thorium-231	1.01E-01		4.48E-02	3.85E-02	3.31E+03	3.31E+05
BP-10-SUR	Thorium-231	7.95E-02		4.46E-02	3.12E-02	3.31E+03	3.31E+05
BP-11-SUR	Thorium-231	3.38E-02		2.52E-02	3.60E-02	3.31E+03	3.31E+05
BP-12-SUR	Thorium-231	4.88E-02		2.97E-02	2.29E-02	3.31E+03	3.31E+05
BP-13-SUR	Thorium-231	4.71E-02		2.96E-02	3.43E-02	3.31E+03	3.31E+05
BP-14-SUR	Thorium-231	4.78E-02		2.79E-02	2.39E-02	3.31E+03	3.31E+05
BP-15-SUR	Thorium-231	9.82E-02		4.18E-02	2.11E-02	3.31E+03	3.31E+05
BP-16-SUR	Thorium-231	8.59E-02		3.82E-02	2.37E-02	3.31E+03	3.31E+05
BP-17-SUR	Thorium-231	5.72E-02		4.11E-02	3.79E-02	3.31E+03	3.31E+05
BP-18-SUR	Thorium-231	1.04E-01		4.49E-02	3.77E-02	3.31E+03	3.31E+05
BP-19-SUR	Thorium-231	6.36E-02		3.76E-02	2.60E-02	3.31E+03	3.31E+05
BP-20-SUR	Thorium-231	4.51E-02		2.75E-02	2.46E-02	3.31E+03	3.31E+05
BP-21-SUR	Thorium-231	8.59E-02		3.58E-02	3.39E-02	3.31E+03	3.31E+05
BP-22-SUR	Thorium-231	5.74E-02		3.22E-02	3.07E-02	3.31E+03	3.31E+05
BP-23-SUR	Thorium-231	8.79E-02		4.11E-02	3.46E-02	3.31E+03	3.31E+05
BP-24-SUR	Thorium-231	7.64E-02		4.16E-02	2.62E-02	3.31E+03	3.31E+05
BP-25-SUR	Thorium-231	6.48E-02		3.41E-02	2.59E-02	3.31E+03	3.31E+05
BP-26-SUR	Thorium-231	5.04E-02		2.83E-02	2.32E-02	3.31E+03	3.31E+05
BP-27-SUR	Thorium-231	6.35E-02		3.61E-02	2.39E-02	3.31E+03	3.31E+05
BP-28-SUR	Thorium-231	7.72E-02		3.84E-02	2.18E-02	3.31E+03	3.31E+05
BP-29-SUR	Thorium-231	6.88E-02		4.03E-02	3.44E-02	3.31E+03	3.31E+05
BP-30-SUR	Thorium-231	7.67E-02		3.74E-02	2.59E-02	3.31E+03	3.31E+05
BP-31-SUR	Thorium-231	6.42E-02		3.45E-02	3.36E-02	3.31E+03	3.31E+05
BP-32-SUR	Thorium-231	4.35E-02		3.54E-02	3.48E-02	3.31E+03	3.31E+05
BP-33-SUR	Thorium-231	7.08E-02		3.60E-02	2.61E-02	3.31E+03	3.31E+05
BP-34-SUR	Thorium-231	5.20E-02		2.94E-02	2.43E-02	3.31E+03	3.31E+05
BP-35-SUR	Thorium-231	6.94E-02		3.44E-02	2.43E-02	3.31E+03	3.31E+05
BP-36-SUR	Thorium-231	6.57E-02		2.78E-02	2.68E-02	3.31E+03	3.31E+05
BP-37-SUR	Thorium-231	9.09E-02		5.64E-02	3.76E-02	3.31E+03	3.31E+05
BP-38-SUR	Thorium-231	5.83E-02		2.73E-02	1.81E-02	3.31E+03	3.31E+05
BP-39-SUR	Thorium-231	9.21E-02		5.20E-02	3.12E-02	3.31E+03	3.31E+05
BP-40-SUR	Thorium-231	8.77E-02		5.13E-02	3.21E-02	3.31E+03	3.31E+05
BP-41-SUR	Thorium-231	6.96E-02		3.79E-02	2.98E-02	3.31E+03	3.31E+05
BP-42-SUR	Thorium-231	8.85E-02		4.37E-02	3.25E-02	3.31E+03	3.31E+05

Table 6.54 - Thorium-231 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-231	7.95E-02		4.35E-02	3.90E-02	3.31E+03	3.31E+05
BP-44-SUR	Thorium-231	9.29E-02		4.51E-02	2.27E-02	3.31E+03	3.31E+05
BP-45-SUR	Thorium-231	6.75E-02		3.98E-02	3.85E-02	3.31E+03	3.31E+05
BP-46-SUR	Thorium-231	4.79E-02		3.40E-02	2.87E-02	3.31E+03	3.31E+05
BP-47-SUR	Thorium-231	8.01E-02		3.42E-02	2.01E-02	3.31E+03	3.31E+05
BP-48-SUR	Thorium-231	5.55E-02		3.13E-02	2.56E-02	3.31E+03	3.31E+05
BP-49-SUR	Thorium-231	6.62E-02		4.70E-02	3.97E-02	3.31E+03	3.31E+05
BP-50-SUR	Thorium-231	4.68E-02		2.68E-02	2.80E-02	3.31E+03	3.31E+05
BP-51-SUR	Thorium-231	7.33E-02		4.13E-02	2.71E-02	3.31E+03	3.31E+05
BP-52-SUR	Thorium-231	5.14E-02		2.87E-02	3.65E-02	3.31E+03	3.31E+05
BP-53-SUR	Thorium-231	4.72E-02		3.16E-02	2.52E-02	3.31E+03	3.31E+05
BP-54-SUR	Thorium-231	3.89E-02		2.30E-02	2.93E-02	3.31E+03	3.31E+05
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-231	6.94E-02		3.60E-02	3.93E-02	3.31E+03	3.31E+05
BP-4-SUB	Thorium-231	6.58E-02		3.76E-02	2.69E-02	3.31E+03	3.31E+05
BP-5-SUB	Thorium-231	4.85E-02		2.87E-02	2.50E-02	3.31E+03	3.31E+05
BP-9-SUB	Thorium-231	4.46E-02		2.96E-02	3.83E-02	3.31E+03	3.31E+05
BP-12-SUB	Thorium-231	7.44E-02		4.32E-02	3.14E-02	3.31E+03	3.31E+05
BP-13-SUB	Thorium-231	6.52E-02		3.67E-02	3.01E-02	3.31E+03	3.31E+05
BP-14-SUB	Thorium-231	5.82E-02		3.40E-02	2.91E-02	3.31E+03	3.31E+05
BP-16-SUB	Thorium-231	9.53E-02		4.64E-02	3.20E-02	3.31E+03	3.31E+05
BP-20-SUB	Thorium-231	6.26E-02		4.44E-02	4.04E-02	3.31E+03	3.31E+05
BP-23-SUB	Thorium-231	6.61E-02		3.48E-02	2.64E-02	3.31E+03	3.31E+05
BP-29-SUB	Thorium-231	7.47E-02		4.21E-02	2.96E-02	3.31E+03	3.31E+05
BP-34-SUB	Thorium-231	6.71E-02		4.28E-02	3.46E-02	3.31E+03	3.31E+05
BP-35-SUB	Thorium-231	8.38E-02		3.47E-02	3.26E-02	3.31E+03	3.31E+05
BP-38-SUB	Thorium-231	9.53E-02		4.07E-02	3.10E-02	3.31E+03	3.31E+05
BP-43-SUB	Thorium-231	9.20E-02		4.46E-02	2.68E-02	3.31E+03	3.31E+05
BP-45-SUB	Thorium-231	6.08E-02		3.71E-02	2.90E-02	3.31E+03	3.31E+05
BP-46-SUB	Thorium-231	3.77E-02		2.39E-02	3.03E-02	3.31E+03	3.31E+05
BP-48-SUB	Thorium-231	6.33E-02		3.57E-02	2.56E-02	3.31E+03	3.31E+05
BP-50-SUB	Thorium-231	6.19E-02		3.36E-02	3.66E-02	3.31E+03	3.31E+05
BP-51-SUB	Thorium-231	5.70E-02		3.35E-02	3.93E-02	3.31E+03	3.31E+05

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.55 - Thorium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-232	1.43E+00		3.42E-01	7.69E-02	9.42E-03	9.42E-01
LR-2-SUR	Thorium-232	1.18E+00		2.26E-01	2.60E-02	9.42E-03	9.42E-01
LR-3-SUR	Thorium-232	1.48E+00	K	4.14E-01	1.14E-01	9.42E-03	9.42E-01
LR-4-SUR	Thorium-232	1.53E+00		2.89E-01	1.67E-02	9.42E-03	9.42E-01
LR-5-SUR	Thorium-232	1.46E+00		3.00E-01	2.95E-02	9.42E-03	9.42E-01
LR-6-SUR	Thorium-232	1.36E+00		2.78E-01	3.32E-02	9.42E-03	9.42E-01
LR-7-SUR	Thorium-232	1.30E+00		2.35E-01	1.49E-02	9.42E-03	9.42E-01
LR-8-SUR	Thorium-232	1.24E+00		3.07E-01	1.10E-01	9.42E-03	9.42E-01
LR-9-SUR	Thorium-232	1.56E+00		3.03E-01	1.62E-02	9.42E-03	9.42E-01
LR-10-SUR	Thorium-232	1.36E+00		2.59E-01	1.98E-02	9.42E-03	9.42E-01
LR-11-SUR	Thorium-232	8.66E-01		1.62E-01	8.17E-03	9.42E-03	9.42E-01
LR-12-SUR	Thorium-232	1.22E+00		2.31E-01	2.36E-02	9.42E-03	9.42E-01
LR-13-SUR	Thorium-232	1.18E+00		2.34E-01	2.36E-02	9.42E-03	9.42E-01
LR-14-SUR	Thorium-232	1.14E+00		2.25E-01	1.31E-02	9.42E-03	9.42E-01
LR-15-SUR	Thorium-232	1.10E+00		2.42E-01	5.97E-02	9.42E-03	9.42E-01
LR-16-SUR	Thorium-232	1.52E+00		2.76E-01	2.03E-02	9.42E-03	9.42E-01
LR-17-SUR	Thorium-232	1.42E+00		2.77E-01	1.51E-02	9.42E-03	9.42E-01
LR-18-SUR	Thorium-232	1.61E+00		3.18E-01	3.07E-02	9.42E-03	9.42E-01
LR-19-SUR	Thorium-232	1.38E+00		2.76E-01	2.36E-02	9.42E-03	9.42E-01
LR-20-SUR	Thorium-232	1.37E+00		2.50E-01	9.16E-03	9.42E-03	9.42E-01
LR-21-SUR	Thorium-232	1.32E+00		2.72E-01	5.75E-02	9.42E-03	9.42E-01
LR-22-SUR	Thorium-232	1.41E+00		3.03E-01	2.83E-02	9.42E-03	9.42E-01
LR-23-SUR	Thorium-232	1.70E+00		3.37E-01	3.39E-02	9.42E-03	9.42E-01
LR-24-SUR	Thorium-232	1.37E+00		2.65E-01	2.21E-02	9.42E-03	9.42E-01
LR-25-SUR	Thorium-232	1.28E+00		2.50E-01	1.41E-02	9.42E-03	9.42E-01
LR-26-SUR	Thorium-232	1.22E+00		2.42E-01	1.47E-02	9.42E-03	9.42E-01
LR-27-SUR	Thorium-232	1.35E+00		2.42E-01	1.13E-02	9.42E-03	9.42E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-232	1.73E+00		3.16E-01	1.15E-02	9.42E-03	9.42E-01
LR-4-SUB	Thorium-232	1.46E+00		2.59E-01	6.02E-03	9.42E-03	9.42E-01
LR-9-SUB	Thorium-232	1.54E+00		2.82E-01	1.09E-02	9.42E-03	9.42E-01
LR-13-SUB	Thorium-232	1.56E+00		3.03E-01	3.33E-02	9.42E-03	9.42E-01
LR-15-SUB	Thorium-232	1.28E+00		2.63E-01	5.60E-02	9.42E-03	9.42E-01
LR-18-SUB	Thorium-232	1.30E+00		2.45E-01	1.78E-02	9.42E-03	9.42E-01
LR-19-SUB	Thorium-232	1.53E+00		2.90E-01	1.65E-02	9.42E-03	9.42E-01
LR-23-SUB	Thorium-232	1.36E+00		2.45E-01	1.31E-02	9.42E-03	9.42E-01
LR-24-SUB	Thorium-232	1.89E+00		3.97E-01	9.20E-02	9.42E-03	9.42E-01
LR-26-SUB	Thorium-232	1.81E+00		3.25E-01	1.69E-02	9.42E-03	9.42E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-232	1.09E+00		2.13E-01	1.72E-02	9.42E-03	9.42E-01
RP-2-SUR	Thorium-232	9.45E-01		1.90E-01	1.15E-02	9.42E-03	9.42E-01
RP-3-SUR	Thorium-232	9.90E-01		1.98E-01	1.17E-02	9.42E-03	9.42E-01
RP-4-SUR	Thorium-232	1.58E+00		3.12E-01	2.58E-02	9.42E-03	9.42E-01
RP-5-SUR	Thorium-232	1.48E+00		2.96E-01	1.75E-02	9.42E-03	9.42E-01
RP-6-SUR	Thorium-232	1.78E+00		3.15E-01	6.79E-03	9.42E-03	9.42E-01
RP-7-SUR	Thorium-232	1.75E+00		3.40E-01	1.63E-02	9.42E-03	9.42E-01
RP-8-SUR	Thorium-232	8.79E-01		1.74E-01	1.47E-02	9.42E-03	9.42E-01
RP-9-SUR	Thorium-232	8.97E-01		1.79E-01	1.63E-02	9.42E-03	9.42E-01
RP-10-SUR	Thorium-232	1.03E+00		2.06E-01	1.89E-02	9.42E-03	9.42E-01
RP-11-SUR	Thorium-232	1.04E+00		2.10E-01	1.32E-02	9.42E-03	9.42E-01
RP-12-SUR	Thorium-232	1.51E+00		2.91E-01	2.02E-02	9.42E-03	9.42E-01
RP-13-SUR	Thorium-232	1.44E+00		2.81E-01	1.36E-02	9.42E-03	9.42E-01
RP-14-SUR	Thorium-232	1.50E+00		2.98E-01	1.71E-02	9.42E-03	9.42E-01
RP-15-SUR	Thorium-232	1.69E+00		3.03E-01	8.22E-03	9.42E-03	9.42E-01
RP-16-SUR	Thorium-232	1.72E+00		3.10E-01	1.35E-02	9.42E-03	9.42E-01
RP-17-SUR	Thorium-232	8.62E-01		1.72E-01	1.56E-02	9.42E-03	9.42E-01
RP-18-SUR	Thorium-232	1.40E+00		2.73E-01	2.12E-02	9.42E-03	9.42E-01
RP-19-SUR	Thorium-232	2.05E+00		3.76E-01	1.50E-02	9.42E-03	9.42E-01
RP-20-SUR	Thorium-232	1.50E+00		2.76E-01	1.68E-02	9.42E-03	9.42E-01
RP-21-SUR	Thorium-232	1.81E+00		3.29E-01	2.92E-02	9.42E-03	9.42E-01

Table 6.55 - Thorium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-232	1.63E+00		3.00E-01	9.62E-03	9.42E-03	9.42E-01
RP-23-SUR	Thorium-232	9.14E-01		1.75E-01	8.38E-03	9.42E-03	9.42E-01
RP-24-SUR	Thorium-232	1.01E+00		1.85E-01	1.35E-02	9.42E-03	9.42E-01
RP-25-SUR	Thorium-232	1.03E+00		1.97E-01	1.75E-02	9.42E-03	9.42E-01
RP-26-SUR	Thorium-232	1.67E+00		3.17E-01	1.38E-02	9.42E-03	9.42E-01
RP-27-SUR	Thorium-232	1.08E+00		2.07E-01	9.54E-03	9.42E-03	9.42E-01
RP-28-SUR	Thorium-232	1.89E+00		3.43E-01	2.09E-02	9.42E-03	9.42E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-232	1.86E+00		3.35E-01	1.60E-02	9.42E-03	9.42E-01
RP-5-SUB	Thorium-232	1.71E+00		3.26E-01	4.20E-02	9.42E-03	9.42E-01
RP-7-SUB	Thorium-232	1.83E+00		3.27E-01	1.68E-02	9.42E-03	9.42E-01
RP-12-SUB	Thorium-232	1.85E+00		3.43E-01	1.17E-02	9.42E-03	9.42E-01
RP-13-SUB	Thorium-232	1.03E+00		1.89E-01	1.95E-02	9.42E-03	9.42E-01
RP-17-SUB	Thorium-232	1.25E+00		2.31E-01	1.82E-02	9.42E-03	9.42E-01
RP-18-SUB	Thorium-232	1.15E+00		2.25E-01	3.15E-02	9.42E-03	9.42E-01
RP-19-SUB	Thorium-232	1.06E+00		2.04E-01	3.15E-02	9.42E-03	9.42E-01
RP-20-SUB	Thorium-232	1.24E+00		2.32E-01	1.21E-02	9.42E-03	9.42E-01
RP-28-SUB	Thorium-232	1.22E+00		2.33E-01	1.50E-02	9.42E-03	9.42E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-232	1.95E+00		3.44E-01	6.47E-03	9.42E-03	9.42E-01
BP-2-SUR	Thorium-232	2.12E+00		3.75E-01	7.08E-03	9.42E-03	9.42E-01
BP-3-SUR	Thorium-232	2.19E+00		3.85E-01	1.46E-02	9.42E-03	9.42E-01
BP-4-SUR	Thorium-232	1.84E+00		3.29E-01	1.50E-02	9.42E-03	9.42E-01
BP-5-SUR	Thorium-232	1.95E+00		3.45E-01	7.29E-03	9.42E-03	9.42E-01
BP-6-SUR	Thorium-232	2.19E+00		3.87E-01	7.84E-03	9.42E-03	9.42E-01
BP-7-SUR	Thorium-232	2.46E+00		4.31E-01	6.70E-03	9.42E-03	9.42E-01
BP-8-SUR	Thorium-232	2.17E+00		3.85E-01	9.26E-03	9.42E-03	9.42E-01
BP-9-SUR	Thorium-232	2.23E+00		3.95E-01	8.47E-03	9.42E-03	9.42E-01
BP-10-SUR	Thorium-232	2.19E+00		3.88E-01	8.14E-03	9.42E-03	9.42E-01
BP-11-SUR	Thorium-232	2.03E+00		3.59E-01	7.06E-03	9.42E-03	9.42E-01
BP-12-SUR	Thorium-232	2.14E+00		3.80E-01	8.91E-03	9.42E-03	9.42E-01
BP-13-SUR	Thorium-232	2.12E+00		3.73E-01	6.33E-03	9.42E-03	9.42E-01
BP-14-SUR	Thorium-232	1.69E+00		3.03E-01	1.83E-02	9.42E-03	9.42E-01
BP-15-SUR	Thorium-232	1.84E+00		3.28E-01	7.76E-03	9.42E-03	9.42E-01
BP-16-SUR	Thorium-232	1.55E+00		2.76E-01	6.43E-03	9.42E-03	9.42E-01
BP-17-SUR	Thorium-232	1.83E+00		3.25E-01	7.18E-03	9.42E-03	9.42E-01
BP-18-SUR	Thorium-232	2.17E+00		3.86E-01	1.72E-02	9.42E-03	9.42E-01
BP-19-SUR	Thorium-232	2.20E+00		3.92E-01	9.88E-03	9.42E-03	9.42E-01
BP-20-SUR	Thorium-232	1.78E+00		3.14E-01	5.95E-03	9.42E-03	9.42E-01
BP-21-SUR	Thorium-232	1.99E+00		3.51E-01	1.25E-02	9.42E-03	9.42E-01
BP-22-SUR	Thorium-232	1.59E+00		2.82E-01	1.09E-02	9.42E-03	9.42E-01
BP-23-SUR	Thorium-232	1.84E+00		3.26E-01	1.54E-02	9.42E-03	9.42E-01
BP-24-SUR	Thorium-232	1.76E+00		3.14E-01	8.09E-03	9.42E-03	9.42E-01
BP-25-SUR	Thorium-232	1.80E+00		3.19E-01	7.10E-03	9.42E-03	9.42E-01
BP-26-SUR	Thorium-232	1.92E+00		3.40E-01	6.68E-03	9.42E-03	9.42E-01
BP-27-SUR	Thorium-232	1.84E+00		3.26E-01	6.96E-03	9.42E-03	9.42E-01
BP-28-SUR	Thorium-232	1.50E+00		2.66E-01	6.42E-03	9.42E-03	9.42E-01
BP-29-SUR	Thorium-232	1.50E+00		2.68E-01	6.98E-03	9.42E-03	9.42E-01
BP-30-SUR	Thorium-232	1.84E+00		3.26E-01	7.38E-03	9.42E-03	9.42E-01
BP-31-SUR	Thorium-232	1.63E+00		2.91E-01	7.78E-03	9.42E-03	9.42E-01
BP-32-SUR	Thorium-232	1.80E+00		3.22E-01	8.53E-03	9.42E-03	9.42E-01
BP-33-SUR	Thorium-232	1.72E+00		3.07E-01	7.42E-03	9.42E-03	9.42E-01
BP-34-SUR	Thorium-232	1.74E+00		3.08E-01	6.35E-03	9.42E-03	9.42E-01
BP-35-SUR	Thorium-232	1.92E+00		3.57E-01	1.71E-02	9.42E-03	9.42E-01
BP-36-SUR	Thorium-232	1.68E+00		3.03E-01	9.63E-03	9.42E-03	9.42E-01
BP-37-SUR	Thorium-232	2.16E+00		3.92E-01	2.49E-02	9.42E-03	9.42E-01
BP-38-SUR	Thorium-232	1.45E+00		2.68E-01	1.13E-02	9.42E-03	9.42E-01
BP-39-SUR	Thorium-232	1.41E+00		2.56E-01	8.85E-03	9.42E-03	9.42E-01
BP-40-SUR	Thorium-232	1.65E+00		3.02E-01	1.17E-02	9.42E-03	9.42E-01
BP-41-SUR	Thorium-232	1.59E+00		2.83E-01	6.68E-03	9.42E-03	9.42E-01
BP-42-SUR	Thorium-232	1.72E+00		3.10E-01	9.03E-03	9.42E-03	9.42E-01

Table 6.55 - Thorium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-232	1.68E+00		3.06E-01	1.08E-02	9.42E-03	9.42E-01
BP-44-SUR	Thorium-232	1.66E+00		3.06E-01	1.26E-02	9.42E-03	9.42E-01
BP-45-SUR	Thorium-232	1.60E+00		2.92E-01	1.13E-02	9.42E-03	9.42E-01
BP-46-SUR	Thorium-232	1.75E+00		3.24E-01	1.43E-02	9.42E-03	9.42E-01
BP-47-SUR	Thorium-232	1.57E+00		2.91E-01	1.31E-02	9.42E-03	9.42E-01
BP-48-SUR	Thorium-232	1.80E+00		3.23E-01	1.66E-02	9.42E-03	9.42E-01
BP-49-SUR	Thorium-232	1.75E+00		3.16E-01	1.76E-02	9.42E-03	9.42E-01
BP-50-SUR	Thorium-232	1.54E+00		2.91E-01	3.71E-02	9.42E-03	9.42E-01
BP-51-SUR	Thorium-232	1.68E+00		3.12E-01	1.52E-02	9.42E-03	9.42E-01
BP-52-SUR	Thorium-232	1.24E+00		2.30E-01	1.00E-02	9.42E-03	9.42E-01
BP-53-SUR	Thorium-232	1.34E+00		2.47E-01	1.03E-02	9.42E-03	9.42E-01
BP-54-SUR	Thorium-232	1.14E+00		2.13E-01	1.12E-02	9.42E-03	9.42E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-232	1.73E+00		3.12E-01	1.01E-02	9.42E-03	9.42E-01
BP-4-SUB	Thorium-232	1.47E+00		2.67E-01	9.42E-03	9.42E-03	9.42E-01
BP-5-SUB	Thorium-232	1.59E+00		2.85E-01	8.61E-03	9.42E-03	9.42E-01
BP-9-SUB	Thorium-232	2.81E+00		4.97E-01	9.85E-03	9.42E-03	9.42E-01
BP-12-SUB	Thorium-232	1.89E+00		3.42E-01	1.08E-02	9.42E-03	9.42E-01
BP-13-SUB	Thorium-232	2.36E+00		4.14E-01	7.25E-03	9.42E-03	9.42E-01
BP-14-SUB	Thorium-232	1.26E+00		2.34E-01	1.11E-02	9.42E-03	9.42E-01
BP-16-SUB	Thorium-232	2.52E+00		4.45E-01	9.32E-03	9.42E-03	9.42E-01
BP-20-SUB	Thorium-232	1.24E+00		2.28E-01	9.00E-03	9.42E-03	9.42E-01
BP-23-SUB	Thorium-232	1.61E+00		2.90E-01	8.52E-03	9.42E-03	9.42E-01
BP-29-SUB	Thorium-232	1.39E+00		2.53E-01	9.60E-03	9.42E-03	9.42E-01
BP-34-SUB	Thorium-232	2.87E+00		5.14E-01	1.37E-02	9.42E-03	9.42E-01
BP-35-SUB	Thorium-232	2.31E+00		4.10E-01	1.66E-02	9.42E-03	9.42E-01
BP-38-SUB	Thorium-232	1.43E+00		2.66E-01	2.99E-02	9.42E-03	9.42E-01
BP-43-SUB	Thorium-232	1.44E+00		2.60E-01	1.42E-02	9.42E-03	9.42E-01
BP-45-SUB	Thorium-232	1.98E+00		3.74E-01	2.09E-02	9.42E-03	9.42E-01
BP-46-SUB	Thorium-232	1.93E+00		3.43E-01	8.57E-03	9.42E-03	9.42E-01
BP-48-SUB	Thorium-232	1.56E+00		2.83E-01	9.96E-03	9.42E-03	9.42E-01
BP-50-SUB	Thorium-232	1.95E+00		3.47E-01	8.80E-03	9.42E-03	9.42E-01
BP-51-SUB	Thorium-232	3.04E+00		5.33E-01	8.33E-03	9.42E-03	9.42E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.56 - Thorium-234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thorium-234	1.46E+00		2.26E-01	2.02E-01	1.53E+01	1.53E+03
LR-2-SUR	Thorium-234	1.36E+00		2.15E-01	2.02E-01	1.53E+01	1.53E+03
LR-3-SUR	Thorium-234	1.57E+00		2.38E-01	2.04E-01	1.53E+01	1.53E+03
LR-4-SUR	Thorium-234	1.50E+00		2.27E-01	1.97E-01	1.53E+01	1.53E+03
LR-5-SUR	Thorium-234	1.54E+00		2.34E-01	2.01E-01	1.53E+01	1.53E+03
LR-6-SUR	Thorium-234	1.46E+00		2.29E-01	2.08E-01	1.53E+01	1.53E+03
LR-7-SUR	Thorium-234	1.47E+00		2.27E-01	1.99E-01	1.53E+01	1.53E+03
LR-8-SUR	Thorium-234	1.40E+00		2.16E-01	2.00E-01	1.53E+01	1.53E+03
LR-9-SUR	Thorium-234	1.50E+00		2.31E-01	2.04E-01	1.53E+01	1.53E+03
LR-10-SUR	Thorium-234	1.50E+00		2.34E-01	2.11E-01	1.53E+01	1.53E+03
LR-11-SUR	Thorium-234	1.49E+00		2.33E-01	2.12E-01	1.53E+01	1.53E+03
LR-12-SUR	Thorium-234	1.27E+00		2.05E-01	2.01E-01	1.53E+01	1.53E+03
LR-13-SUR	Thorium-234	1.32E+00		2.08E-01	1.94E-01	1.53E+01	1.53E+03
LR-14-SUR	Thorium-234	1.20E+00		1.91E-01	1.90E-01	1.53E+01	1.53E+03
LR-15-SUR	Thorium-234	1.49E+00		2.33E-01	2.12E-01	1.53E+01	1.53E+03
LR-16-SUR	Thorium-234	1.43E+00		2.21E-01	1.96E-01	1.53E+01	1.53E+03
LR-17-SUR	Thorium-234	1.50E+00		2.24E-01	1.81E-01	1.53E+01	1.53E+03
LR-18-SUR	Thorium-234	1.58E+00		2.40E-01	2.03E-01	1.53E+01	1.53E+03
LR-19-SUR	Thorium-234	1.63E+00		2.48E-01	2.11E-01	1.53E+01	1.53E+03
LR-20-SUR	Thorium-234	1.66E+00		2.51E-01	2.12E-01	1.53E+01	1.53E+03
LR-21-SUR	Thorium-234	1.63E+00		2.47E-01	2.09E-01	1.53E+01	1.53E+03
LR-22-SUR	Thorium-234	1.60E+00		2.44E-01	2.09E-01	1.53E+01	1.53E+03
LR-23-SUR	Thorium-234	1.55E+00		2.36E-01	2.03E-01	1.53E+01	1.53E+03
LR-24-SUR	Thorium-234	1.36E+00		2.14E-01	2.00E-01	1.53E+01	1.53E+03
LR-25-SUR	Thorium-234	1.48E+00		2.29E-01	2.05E-01	1.53E+01	1.53E+03
LR-26-SUR	Thorium-234	1.57E+00		2.40E-01	2.05E-01	1.53E+01	1.53E+03
LR-27-SUR	Thorium-234	1.43E+00		2.20E-01	1.96E-01	1.53E+01	1.53E+03
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thorium-234	1.82E+00		2.67E-01	2.06E-01	1.53E+01	1.53E+03
LR-4-SUB	Thorium-234	1.63E+00		2.42E-01	1.94E-01	1.53E+01	1.53E+03
LR-9-SUB	Thorium-234	1.42E+00		2.22E-01	2.02E-01	1.53E+01	1.53E+03
LR-13-SUB	Thorium-234	1.50E+00		2.31E-01	2.05E-01	1.53E+01	1.53E+03
LR-15-SUB	Thorium-234	1.32E+00		2.28E-01	2.44E-01	1.53E+01	1.53E+03
LR-18-SUB	Thorium-234	1.71E+00		2.57E-01	2.13E-01	1.53E+01	1.53E+03
LR-19-SUB	Thorium-234	1.78E+00		2.67E-01	2.21E-01	1.53E+01	1.53E+03
LR-23-SUB	Thorium-234	1.84E+00		2.73E-01	2.19E-01	1.53E+01	1.53E+03
LR-24-SUB	Thorium-234	1.60E+00		2.43E-01	2.08E-01	1.53E+01	1.53E+03
LR-26-SUB	Thorium-234	1.51E+00		2.35E-01	2.12E-01	1.53E+01	1.53E+03
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thorium-234	9.73E-01		1.63E-01	1.68E-01	1.53E+01	1.53E+03
RP-2-SUR	Thorium-234	9.33E-01		1.62E-01	1.72E-01	1.53E+01	1.53E+03
RP-3-SUR	Thorium-234	2.60E-01	K	1.17E-01	1.84E-01	1.53E+01	1.53E+03
RP-4-SUR	Thorium-234	8.19E-01		1.49E-01	1.69E-01	1.53E+01	1.53E+03
RP-5-SUR	Thorium-234	9.73E-01		1.64E-01	1.70E-01	1.53E+01	1.53E+03
RP-6-SUR	Thorium-234	1.06E+00		1.73E-01	1.72E-01	1.53E+01	1.53E+03
RP-7-SUR	Thorium-234	1.09E+00		1.77E-01	1.73E-01	1.53E+01	1.53E+03
RP-8-SUR	Thorium-234	1.15E+00		1.85E-01	1.79E-01	1.53E+01	1.53E+03
RP-9-SUR	Thorium-234	9.93E-01		1.50E-01	1.65E-01	1.53E+01	1.53E+03
RP-10-SUR	Thorium-234	1.01E+00		1.69E-01	1.75E-01	1.53E+01	1.53E+03
RP-11-SUR	Thorium-234	1.18E+00		1.87E-01	1.75E-01	1.53E+01	1.53E+03
RP-12-SUR	Thorium-234	8.86E-01		1.53E-01	1.64E-01	1.53E+01	1.53E+03
RP-13-SUR	Thorium-234	8.86E-01		1.52E-01	1.62E-01	1.53E+01	1.53E+03
RP-14-SUR	Thorium-234	9.84E-01		1.63E-01	1.66E-01	1.53E+01	1.53E+03
RP-15-SUR	Thorium-234	9.14E-01		1.57E-01	1.67E-01	1.53E+01	1.53E+03
RP-16-SUR	Thorium-234	9.69E-01		1.61E-01	1.64E-01	1.53E+01	1.53E+03
RP-17-SUR	Thorium-234	9.88E-01		1.64E-01	1.66E-01	1.53E+01	1.53E+03
RP-18-SUR	Thorium-234	9.76E-01		1.63E-01	1.72E-01	1.53E+01	1.53E+03
RP-19-SUR	Thorium-234	9.75E-01		1.66E-01	1.74E-01	1.53E+01	1.53E+03
RP-20-SUR	Thorium-234	1.15E+00		1.87E-01	1.83E-01	1.53E+01	1.53E+03
RP-21-SUR	Thorium-234	9.23E-01		1.58E-01	1.67E-01	1.53E+01	1.53E+03

Table 6.56 - Thorium-234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thorium-234	9.44E-01		1.59E-01	1.68E-01	1.53E+01	1.53E+03
RP-23-SUR	Thorium-234	1.13E+00		1.84E-01	1.79E-01	1.53E+01	1.53E+03
RP-24-SUR	Thorium-234	1.01E+00		1.67E-01	1.69E-01	1.53E+01	1.53E+03
RP-25-SUR	Thorium-234	1.02E+00		1.72E-01	1.76E-01	1.53E+01	1.53E+03
RP-26-SUR	Thorium-234	1.00E+00		1.69E-01	1.74E-01	1.53E+01	1.53E+03
RP-27-SUR	Thorium-234	1.03E+00		1.73E-01	1.79E-01	1.53E+01	1.53E+03
RP-28-SUR	Thorium-234	1.10E+00		1.81E-01	1.80E-01	1.53E+01	1.53E+03
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thorium-234	9.53E-01		1.61E-01	1.67E-01	1.53E+01	1.53E+03
RP-5-SUB	Thorium-234	1.16E+00		1.87E-01	1.79E-01	1.53E+01	1.53E+03
RP-7-SUB	Thorium-234	1.15E+00		1.87E-01	1.79E-01	1.53E+01	1.53E+03
RP-12-SUB	Thorium-234	8.98E-01		1.53E-01	1.61E-01	1.53E+01	1.53E+03
RP-13-SUB	Thorium-234	1.19E+00		1.88E-01	1.75E-01	1.53E+01	1.53E+03
RP-17-SUB	Thorium-234	1.23E+00		1.94E-01	1.80E-01	1.53E+01	1.53E+03
RP-18-SUB	Thorium-234	1.26E+00		1.97E-01	1.82E-01	1.53E+01	1.53E+03
RP-19-SUB	Thorium-234	1.14E+00		1.84E-01	1.78E-01	1.53E+01	1.53E+03
RP-20-SUB	Thorium-234	1.11E+00		1.80E-01	1.76E-01	1.53E+01	1.53E+03
RP-28-SUB	Thorium-234	1.08E+00		1.77E-01	1.77E-01	1.53E+01	1.53E+03
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thorium-234	1.87E+00		2.74E-01	2.12E-01	1.53E+01	1.53E+03
BP-2-SUR	Thorium-234	1.80E+00		2.68E-01	2.17E-01	1.53E+01	1.53E+03
BP-3-SUR	Thorium-234	1.88E+00		2.77E-01	2.19E-01	1.53E+01	1.53E+03
BP-4-SUR	Thorium-234	2.04E+00		2.98E-01	2.27E-01	1.53E+01	1.53E+03
BP-5-SUR	Thorium-234	6.40E-01		1.75E-01	2.51E-01	1.53E+01	1.53E+03
BP-6-SUR	Thorium-234	2.10E+00		3.05E-01	2.30E-01	1.53E+01	1.53E+03
BP-7-SUR	Thorium-234	2.04E+00		3.01E-01	2.38E-01	1.53E+01	1.53E+03
BP-8-SUR	Thorium-234	2.07E+00		3.01E-01	2.28E-01	1.53E+01	1.53E+03
BP-9-SUR	Thorium-234	1.90E+00		2.82E-01	2.29E-01	1.53E+01	1.53E+03
BP-10-SUR	Thorium-234	2.06E+00		2.99E-01	2.27E-01	1.53E+01	1.53E+03
BP-11-SUR	Thorium-234	1.95E+00		2.87E-01	2.26E-01	1.53E+01	1.53E+03
BP-12-SUR	Thorium-234	1.79E+00		2.70E-01	2.25E-01	1.53E+01	1.53E+03
BP-13-SUR	Thorium-234	1.02E+00		2.15E-01	3.02E-01	1.53E+01	1.53E+03
BP-14-SUR	Thorium-234	1.68E+00		2.53E-01	2.12E-01	1.53E+01	1.53E+03
BP-15-SUR	Thorium-234	1.89E+00		2.79E-01	2.19E-01	1.53E+01	1.53E+03
BP-16-SUR	Thorium-234	1.74E+00		2.62E-01	2.20E-01	1.53E+01	1.53E+03
BP-17-SUR	Thorium-234	1.78E+00		2.66E-01	2.20E-01	1.53E+01	1.53E+03
BP-18-SUR	Thorium-234	1.04E+00		2.03E-01	2.36E-01	1.53E+01	1.53E+03
BP-19-SUR	Thorium-234	6.99E-01		1.86E-01	2.76E-01	1.53E+01	1.53E+03
BP-20-SUR	Thorium-234	1.91E+00		2.82E-01	2.30E-01	1.53E+01	1.53E+03
BP-21-SUR	Thorium-234	1.90E+00		2.79E-01	2.26E-01	1.53E+01	1.53E+03
BP-22-SUR	Thorium-234	4.96E-01		1.95E-01	3.07E-01	1.53E+01	1.53E+03
BP-23-SUR	Thorium-234	1.99E+00		2.71E-01	2.76E-01	1.53E+01	1.53E+03
BP-24-SUR	Thorium-234	2.00E+00		2.73E-01	2.79E-01	1.53E+01	1.53E+03
BP-25-SUR	Thorium-234	9.84E-01		1.99E-01	2.73E-01	1.53E+01	1.53E+03
BP-26-SUR	Thorium-234	2.24E+00		3.36E-01	2.80E-01	1.53E+01	1.53E+03
BP-27-SUR	Thorium-234	2.28E+00		3.40E-01	2.83E-01	1.53E+01	1.53E+03
BP-28-SUR	Thorium-234	2.17E+00		3.26E-01	2.73E-01	1.53E+01	1.53E+03
BP-29-SUR	Thorium-234	9.85E-01		1.90E-01	2.57E-01	1.53E+01	1.53E+03
BP-30-SUR	Thorium-234	1.95E+00		2.88E-01	2.28E-01	1.53E+01	1.53E+03
BP-31-SUR	Thorium-234	2.08E+00		3.18E-01	2.85E-01	1.53E+01	1.53E+03
BP-32-SUR	Thorium-234	2.29E+00		3.45E-01	2.90E-01	1.53E+01	1.53E+03
BP-33-SUR	Thorium-234	2.18E+00		3.15E-01	2.32E-01	1.53E+01	1.53E+03
BP-34-SUR	Thorium-234	1.76E+00		2.50E-01	2.76E-01	1.53E+01	1.53E+03
BP-35-SUR	Thorium-234	2.03E+00		2.96E-01	2.24E-01	1.53E+01	1.53E+03
BP-36-SUR	Thorium-234	1.89E+00		2.80E-01	2.24E-01	1.53E+01	1.53E+03
BP-37-SUR	Thorium-234	1.80E+00		2.69E-01	2.20E-01	1.53E+01	1.53E+03
BP-38-SUR	Thorium-234	1.78E+00		2.65E-01	2.13E-01	1.53E+01	1.53E+03
BP-39-SUR	Thorium-234	1.57E+00		2.41E-01	2.11E-01	1.53E+01	1.53E+03
BP-40-SUR	Thorium-234	1.62E+00		2.48E-01	2.15E-01	1.53E+01	1.53E+03
BP-41-SUR	Thorium-234	1.76E+00		2.48E-01	2.61E-01	1.53E+01	1.53E+03
BP-42-SUR	Thorium-234	1.74E+00		2.62E-01	2.19E-01	1.53E+01	1.53E+03

Table 6.56 - Thorium-234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thorium-234	2.18E+00		3.29E-01	2.77E-01	1.53E+01	1.53E+03
BP-44-SUR	Thorium-234	1.69E+00		2.57E-01	2.20E-01	1.53E+01	1.53E+03
BP-45-SUR	Thorium-234	2.08E+00		3.20E-01	2.73E-01	1.53E+01	1.53E+03
BP-46-SUR	Thorium-234	1.87E+00		2.77E-01	2.21E-01	1.53E+01	1.53E+03
BP-47-SUR	Thorium-234	2.45E+00		3.30E-01	2.44E-01	1.53E+01	1.53E+03
BP-48-SUR	Thorium-234	2.17E+00		3.17E-01	2.41E-01	1.53E+01	1.53E+03
BP-49-SUR	Thorium-234	1.86E+00		2.36E-01	2.23E-01	1.53E+01	1.53E+03
BP-50-SUR	Thorium-234	1.98E+00		2.90E-01	2.22E-01	1.53E+01	1.53E+03
BP-51-SUR	Thorium-234	2.01E+00		2.86E-01	2.27E-01	1.53E+01	1.53E+03
BP-52-SUR	Thorium-234	1.47E+00		2.01E-01	2.06E-01	1.53E+01	1.53E+03
BP-53-SUR	Thorium-234	3.86E-01		1.55E-01	2.42E-01	1.53E+01	1.53E+03
BP-54-SUR	Thorium-234	4.91E-01		1.31E-01	1.95E-01	1.53E+01	1.53E+03
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thorium-234	9.23E-01		1.67E-01	2.04E-01	1.53E+01	1.53E+03
BP-4-SUB	Thorium-234	1.58E+00		2.41E-01	2.06E-01	1.53E+01	1.53E+03
BP-5-SUB	Thorium-234	1.58E+00		2.41E-01	2.09E-01	1.53E+01	1.53E+03
BP-9-SUB	Thorium-234	1.69E+00		2.21E-01	2.12E-01	1.53E+01	1.53E+03
BP-12-SUB	Thorium-234	1.86E+00		2.74E-01	2.16E-01	1.53E+01	1.53E+03
BP-13-SUB	Thorium-234	6.11E-01		1.85E-01	2.82E-01	1.53E+01	1.53E+03
BP-14-SUB	Thorium-234	1.38E+00		2.18E-01	2.11E-01	1.53E+01	1.53E+03
BP-16-SUB	Thorium-234	1.50E+00		2.28E-01	2.66E-01	1.53E+01	1.53E+03
BP-20-SUB	Thorium-234	1.46E+00		2.28E-01	2.05E-01	1.53E+01	1.53E+03
BP-23-SUB	Thorium-234	4.25E-01		1.45E-01	2.25E-01	1.53E+01	1.53E+03
BP-29-SUB	Thorium-234	1.41E+00	U	2.01E+00	3.35E+00	1.53E+01	1.53E+03
BP-34-SUB	Thorium-234	1.91E+00		2.84E-01	2.30E-01	1.53E+01	1.53E+03
BP-35-SUB	Thorium-234	5.46E-01		1.57E-01	2.38E-01	1.53E+01	1.53E+03
BP-38-SUB	Thorium-234	1.54E+00		2.42E-01	2.22E-01	1.53E+01	1.53E+03
BP-43-SUB	Thorium-234	6.35E-01		2.08E-01	3.21E-01	1.53E+01	1.53E+03
BP-45-SUB	Thorium-234	1.84E+00		2.74E-01	2.21E-01	1.53E+01	1.53E+03
BP-46-SUB	Thorium-234	2.42E+00		3.63E-01	3.03E-01	1.53E+01	1.53E+03
BP-48-SUB	Thorium-234	1.69E+00		2.56E-01	2.15E-01	1.53E+01	1.53E+03
BP-50-SUB	Thorium-234	3.14E-01	K	1.69E-01	2.71E-01	1.53E+01	1.53E+03
BP-51-SUB	Thorium-234	2.05E+00		3.01E-01	2.32E-01	1.53E+01	1.53E+03

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.57 - Thulium-171 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Thulium-171	-3.54E+00	U	3.04E+01	1.16E+01	1.25E+03	1.25E+05
LR-2-SUR	Thulium-171	-4.99E+00	U	1.82E+01	1.17E+01	1.25E+03	1.25E+05
LR-3-SUR	Thulium-171	-1.37E+01	UL	9.60E+00	9.76E+00	1.25E+03	1.25E+05
LR-4-SUR	Thulium-171	-3.07E+00	U	4.36E+01	1.16E+01	1.25E+03	1.25E+05
LR-5-SUR	Thulium-171	-1.22E+01	UL	9.59E+00	9.73E+00	1.25E+03	1.25E+05
LR-6-SUR	Thulium-171	-8.88E+00	U	1.18E+01	1.10E+01	1.25E+03	1.25E+05
LR-7-SUR	Thulium-171	-5.58E+00	U	1.52E+01	1.07E+01	1.25E+03	1.25E+05
LR-8-SUR	Thulium-171	-1.05E+01	UL	9.77E+00	9.74E+00	1.25E+03	1.25E+05
LR-9-SUR	Thulium-171	-7.10E+00	U	1.20E+01	9.92E+00	1.25E+03	1.25E+05
LR-10-SUR	Thulium-171	-1.13E+01	UL	1.10E+01	1.21E+01	1.25E+03	1.25E+05
LR-11-SUR	Thulium-171	-1.04E+01	U	1.12E+01	1.22E+01	1.25E+03	1.25E+05
LR-12-SUR	Thulium-171	-3.15E+00	U	5.08E+01	1.12E+01	1.25E+03	1.25E+05
LR-13-SUR	Thulium-171	6.00E+00	U	8.10E+00	9.34E+00	1.25E+03	1.25E+05
LR-14-SUR	Thulium-171	-2.53E+00	U	9.78E+01	8.17E+00	1.25E+03	1.25E+05
LR-15-SUR	Thulium-171	-5.23E+00	U	1.99E+01	1.19E+01	1.25E+03	1.25E+05
LR-16-SUR	Thulium-171	-1.62E+00	U	4.53E+01	1.11E+01	1.25E+03	1.25E+05
LR-17-SUR	Thulium-171	-1.17E+01	UL	8.80E+00	9.02E+00	1.25E+03	1.25E+05
LR-18-SUR	Thulium-171	-5.67E+00	U	1.76E+01	1.17E+01	1.25E+03	1.25E+05
LR-19-SUR	Thulium-171	-1.57E+01	UL	1.07E+01	1.02E+01	1.25E+03	1.25E+05
LR-20-SUR	Thulium-171	-1.17E+01	UL	1.06E+01	1.02E+01	1.25E+03	1.25E+05
LR-21-SUR	Thulium-171	-1.36E+01	UL	1.07E+01	1.01E+01	1.25E+03	1.25E+05
LR-22-SUR	Thulium-171	-4.06E+00	U	4.52E+01	1.21E+01	1.25E+03	1.25E+05
LR-23-SUR	Thulium-171	1.34E+00	U	6.46E+00	1.07E+01	1.25E+03	1.25E+05
LR-24-SUR	Thulium-171	-1.25E+01	UL	1.05E+01	9.97E+00	1.25E+03	1.25E+05
LR-25-SUR	Thulium-171	-2.79E+00	U	2.44E+02	1.04E+01	1.25E+03	1.25E+05
LR-26-SUR	Thulium-171	-1.12E+01	UL	1.10E+01	9.88E+00	1.25E+03	1.25E+05
LR-27-SUR	Thulium-171	-1.29E+01	UL	1.12E+01	9.87E+00	1.25E+03	1.25E+05
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Thulium-171	-3.73E+00	U	5.63E+01	1.22E+01	1.25E+03	1.25E+05
LR-4-SUB	Thulium-171	-4.24E-02	U	7.07E+00	1.13E+01	1.25E+03	1.25E+05
LR-9-SUB	Thulium-171	-6.53E+00	U	2.22E+01	1.18E+01	1.25E+03	1.25E+05
LR-13-SUB	Thulium-171	-2.92E+00	U	9.07E+01	1.18E+01	1.25E+03	1.25E+05
LR-15-SUB	Thulium-171	-7.92E+00	U	1.44E+01	1.45E+01	1.25E+03	1.25E+05
LR-18-SUB	Thulium-171	-5.70E+00	U	1.56E+01	1.34E+01	1.25E+03	1.25E+05
LR-19-SUB	Thulium-171	-1.03E+01	U	1.13E+01	1.25E+01	1.25E+03	1.25E+05
LR-23-SUB	Thulium-171	-1.33E+01	U	1.46E+01	1.46E+01	1.25E+03	1.25E+05
LR-24-SUB	Thulium-171	-1.36E+01	UL	1.18E+01	1.18E+01	1.25E+03	1.25E+05
LR-26-SUB	Thulium-171	-9.60E+00	U	1.26E+01	1.14E+01	1.25E+03	1.25E+05
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Thulium-171	-1.24E+00	U	2.45E+01	9.98E+00	1.25E+03	1.25E+05
RP-2-SUR	Thulium-171	-5.06E+00	U	1.47E+01	9.74E+00	1.25E+03	1.25E+05
RP-3-SUR	Thulium-171	-1.49E+01	UL	1.07E+01	1.07E+01	1.25E+03	1.25E+05
RP-4-SUR	Thulium-171	-8.45E+00	U	8.90E+00	8.42E+00	1.25E+03	1.25E+05
RP-5-SUR	Thulium-171	6.17E+00	U	7.68E+00	8.22E+00	1.25E+03	1.25E+05
RP-6-SUR	Thulium-171	-1.06E+01	UL	8.63E+00	8.45E+00	1.25E+03	1.25E+05
RP-7-SUR	Thulium-171	-6.07E+00	U	1.81E+01	1.21E+01	1.25E+03	1.25E+05
RP-8-SUR	Thulium-171	-6.33E+00	U	1.87E+01	1.25E+01	1.25E+03	1.25E+05
RP-9-SUR	Thulium-171	-4.06E+00	U	2.79E+02	1.19E+01	1.25E+03	1.25E+05
RP-10-SUR	Thulium-171	-1.88E+00	U	1.10E+02	1.07E+01	1.25E+03	1.25E+05
RP-11-SUR	Thulium-171	-8.09E+00	U	1.33E+01	1.11E+01	1.25E+03	1.25E+05
RP-12-SUR	Thulium-171	-4.24E+00	U	1.59E+01	9.73E+00	1.25E+03	1.25E+05
RP-13-SUR	Thulium-171	3.49E+00	U	5.11E+00	6.71E+00	1.25E+03	1.25E+05
RP-14-SUR	Thulium-171	-8.11E+00	U	8.55E+00	8.08E+00	1.25E+03	1.25E+05
RP-15-SUR	Thulium-171	-9.00E+00	UL	8.46E+00	8.15E+00	1.25E+03	1.25E+05
RP-16-SUR	Thulium-171	-2.12E+00	U	1.36E+02	9.46E+00	1.25E+03	1.25E+05
RP-17-SUR	Thulium-171	-9.82E+00	UL	8.22E+00	8.11E+00	1.25E+03	1.25E+05
RP-18-SUR	Thulium-171	-1.02E+01	UL	9.03E+00	9.00E+00	1.25E+03	1.25E+05
RP-19-SUR	Thulium-171	-2.88E+00	U	6.20E+00	1.01E+01	1.25E+03	1.25E+05
RP-20-SUR	Thulium-171	-2.80E+00	U	6.61E+02	1.27E+01	1.25E+03	1.25E+05
RP-21-SUR	Thulium-171	-3.97E+00	U	2.89E+01	9.97E+00	1.25E+03	1.25E+05

Table 6.57 - Thulium-171 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Thulium-171	-2.57E+00	U	5.96E+02	9.78E+00	1.25E+03	1.25E+05
RP-23-SUR	Thulium-171	-2.85E+00	U	7.29E+00	1.19E+01	1.25E+03	1.25E+05
RP-24-SUR	Thulium-171	2.67E-01	U	4.23E+00	7.01E+00	1.25E+03	1.25E+05
RP-25-SUR	Thulium-171	-1.84E+00	U	6.23E+00	1.02E+01	1.25E+03	1.25E+05
RP-26-SUR	Thulium-171	1.39E-02	U	6.23E+00	1.03E+01	1.25E+03	1.25E+05
RP-27-SUR	Thulium-171	-2.14E+00	U	6.45E+00	1.06E+01	1.25E+03	1.25E+05
RP-28-SUR	Thulium-171	2.44E-01	U	6.15E+00	1.02E+01	1.25E+03	1.25E+05
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Thulium-171	4.59E+00	U	6.25E+00	7.71E+00	1.25E+03	1.25E+05
RP-5-SUB	Thulium-171	-2.47E+00	U	7.19E+01	1.06E+01	1.25E+03	1.25E+05
RP-7-SUB	Thulium-171	-1.93E-01	U	6.60E+00	8.99E+00	1.25E+03	1.25E+05
RP-12-SUB	Thulium-171	-1.58E+00	U	1.07E+02	9.76E+00	1.25E+03	1.25E+05
RP-13-SUB	Thulium-171	-4.58E+00	U	1.64E+01	1.08E+01	1.25E+03	1.25E+05
RP-17-SUB	Thulium-171	-2.45E+00	U	2.42E+02	9.09E+00	1.25E+03	1.25E+05
RP-18-SUB	Thulium-171	-8.01E+00	UL	6.20E+00	9.00E+00	1.25E+03	1.25E+05
RP-19-SUB	Thulium-171	6.59E-01	U	6.34E+00	1.05E+01	1.25E+03	1.25E+05
RP-20-SUB	Thulium-171	-5.28E+00	U	5.92E+00	8.64E+00	1.25E+03	1.25E+05
RP-28-SUB	Thulium-171	-7.70E+00	UL	6.43E+00	9.11E+00	1.25E+03	1.25E+05
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Thulium-171	-4.81E+00	U	7.95E+00	1.21E+01	1.25E+03	1.25E+05
BP-2-SUR	Thulium-171	-1.35E+01	RU	8.31E+00	1.08E+01	1.25E+03	1.25E+05
BP-3-SUR	Thulium-171	-3.94E-02	U	1.41E+01	1.28E+01	1.25E+03	1.25E+05
BP-4-SUR	Thulium-171	-1.23E+01	UL	8.27E+00	1.12E+01	1.25E+03	1.25E+05
BP-5-SUR	Thulium-171	-1.41E+01	RU	8.62E+00	1.12E+01	1.25E+03	1.25E+05
BP-6-SUR	Thulium-171	-1.09E+01	UL	8.28E+00	1.17E+01	1.25E+03	1.25E+05
BP-7-SUR	Thulium-171	-2.15E+00	U	3.64E+02	1.31E+01	1.25E+03	1.25E+05
BP-8-SUR	Thulium-171	-6.65E+00	U	1.58E+01	1.34E+01	1.25E+03	1.25E+05
BP-9-SUR	Thulium-171	-1.06E+01	U	1.09E+01	1.12E+01	1.25E+03	1.25E+05
BP-10-SUR	Thulium-171	-1.36E+01	UL	1.06E+01	1.13E+01	1.25E+03	1.25E+05
BP-11-SUR	Thulium-171	-1.17E+01	UL	1.07E+01	1.12E+01	1.25E+03	1.25E+05
BP-12-SUR	Thulium-171	-1.47E+01	UL	1.05E+01	1.11E+01	1.25E+03	1.25E+05
BP-13-SUR	Thulium-171	6.92E-01	U	1.28E+01	2.13E+01	1.25E+03	1.25E+05
BP-14-SUR	Thulium-171	-2.27E+00	U	2.55E+02	1.20E+01	1.25E+03	1.25E+05
BP-15-SUR	Thulium-171	-1.51E+01	UL	1.04E+01	1.09E+01	1.25E+03	1.25E+05
BP-16-SUR	Thulium-171	-2.29E+00	U	3.39E+02	1.29E+01	1.25E+03	1.25E+05
BP-17-SUR	Thulium-171	-8.38E-01	U	9.46E+01	1.22E+01	1.25E+03	1.25E+05
BP-18-SUR	Thulium-171	-3.96E+00	U	1.30E+01	1.29E+01	1.25E+03	1.25E+05
BP-19-SUR	Thulium-171	-6.47E+00	U	4.39E+01	2.04E+01	1.25E+03	1.25E+05
BP-20-SUR	Thulium-171	-9.66E+00	UL	9.40E+00	1.17E+01	1.25E+03	1.25E+05
BP-21-SUR	Thulium-171	-1.32E+01	UL	9.10E+00	1.10E+01	1.25E+03	1.25E+05
BP-22-SUR	Thulium-171	3.19E+00	U	1.26E+01	2.08E+01	1.25E+03	1.25E+05
BP-23-SUR	Thulium-171	-9.79E+00	U	3.66E+01	1.99E+01	1.25E+03	1.25E+05
BP-24-SUR	Thulium-171	-1.48E+01	U	2.13E+01	1.68E+01	1.25E+03	1.25E+05
BP-25-SUR	Thulium-171	-3.81E+00	U	7.77E+01	2.07E+01	1.25E+03	1.25E+05
BP-26-SUR	Thulium-171	-5.63E+00	U	2.27E+02	2.00E+01	1.25E+03	1.25E+05
BP-27-SUR	Thulium-171	1.08E+01	U	1.37E+01	1.71E+01	1.25E+03	1.25E+05
BP-28-SUR	Thulium-171	6.57E+00	U	1.03E+01	1.43E+01	1.25E+03	1.25E+05
BP-29-SUR	Thulium-171	-4.67E+00	U	3.66E+02	1.87E+01	1.25E+03	1.25E+05
BP-30-SUR	Thulium-171	-3.51E-01	U	6.37E-01	1.30E+01	1.25E+03	1.25E+05
BP-31-SUR	Thulium-171	1.21E+00	U	1.20E+01	1.99E+01	1.25E+03	1.25E+05
BP-32-SUR	Thulium-171	1.89E+00	U	1.26E+01	2.08E+01	1.25E+03	1.25E+05
BP-33-SUR	Thulium-171	-9.81E+00	UL	8.37E+00	1.21E+01	1.25E+03	1.25E+05
BP-34-SUR	Thulium-171	-3.72E-01	U	5.48E+01	2.16E+01	1.25E+03	1.25E+05
BP-35-SUR	Thulium-171	-8.93E+00	UL	8.11E+00	1.19E+01	1.25E+03	1.25E+05
BP-36-SUR	Thulium-171	-9.21E+00	U	1.24E+01	1.15E+01	1.25E+03	1.25E+05
BP-37-SUR	Thulium-171	-1.33E+01	UL	1.08E+01	1.22E+01	1.25E+03	1.25E+05
BP-38-SUR	Thulium-171	-1.22E+01	UL	1.18E+01	1.11E+01	1.25E+03	1.25E+05
BP-39-SUR	Thulium-171	-8.14E+00	U	1.66E+01	1.23E+01	1.25E+03	1.25E+05
BP-40-SUR	Thulium-171	-1.27E+01	UL	1.20E+01	1.14E+01	1.25E+03	1.25E+05
BP-41-SUR	Thulium-171	-1.46E+00	U	2.85E+01	2.09E+01	1.25E+03	1.25E+05
BP-42-SUR	Thulium-171	-1.65E+01	UL	1.18E+01	1.17E+01	1.25E+03	1.25E+05

Table 6.57 - Thulium-171 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Thulium-171	1.70E+01	B	1.46E+01	1.58E+01	1.25E+03	1.25E+05
BP-44-SUR	Thulium-171	-1.17E+01	U	1.22E+01	1.15E+01	1.25E+03	1.25E+05
BP-45-SUR	Thulium-171	-3.08E+00	U	1.60E+02	2.07E+01	1.25E+03	1.25E+05
BP-46-SUR	Thulium-171	-1.56E+01	UL	1.30E+01	1.21E+01	1.25E+03	1.25E+05
BP-47-SUR	Thulium-171	-1.22E+01	U	3.01E+01	1.87E+01	1.25E+03	1.25E+05
BP-48-SUR	Thulium-171	-1.42E+01	U	1.55E+01	1.34E+01	1.25E+03	1.25E+05
BP-49-SUR	Thulium-171	-7.53E+00	U	7.08E+01	1.82E+01	1.25E+03	1.25E+05
BP-50-SUR	Thulium-171	-1.43E+01	UL	1.31E+01	1.19E+01	1.25E+03	1.25E+05
BP-51-SUR	Thulium-171	-4.64E+00	U	1.35E+02	1.66E+01	1.25E+03	1.25E+05
BP-52-SUR	Thulium-171	-5.52E+00	U	2.63E+03	1.48E+01	1.25E+03	1.25E+05
BP-53-SUR	Thulium-171	-9.57E+00	U	1.76E+01	1.16E+01	1.25E+03	1.25E+05
BP-54-SUR	Thulium-171	-8.81E+00	U	3.33E+01	1.55E+01	1.25E+03	1.25E+05
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Thulium-171	-4.34E+00	U	1.36E+02	1.61E+01	1.25E+03	1.25E+05
BP-4-SUB	Thulium-171	-1.00E+01	U	1.30E+01	1.19E+01	1.25E+03	1.25E+05
BP-5-SUB	Thulium-171	4.02E+00	U	7.24E+00	9.11E+00	1.25E+03	1.25E+05
BP-9-SUB	Thulium-171	-9.23E-01	U	1.91E+01	1.71E+01	1.25E+03	1.25E+05
BP-12-SUB	Thulium-171	-7.23E+00	U	1.97E+01	1.27E+01	1.25E+03	1.25E+05
BP-13-SUB	Thulium-171	-4.62E+00	U	1.12E+03	2.10E+01	1.25E+03	1.25E+05
BP-14-SUB	Thulium-171	9.72E+00	B	9.58E+00	1.03E+01	1.25E+03	1.25E+05
BP-16-SUB	Thulium-171	-1.08E+01	U	1.93E+01	1.75E+01	1.25E+03	1.25E+05
BP-20-SUB	Thulium-171	-9.61E+00	U	9.84E+00	1.11E+01	1.25E+03	1.25E+05
BP-23-SUB	Thulium-171	-1.13E+00	U	1.97E+01	1.59E+01	1.25E+03	1.25E+05
BP-29-SUB	Thulium-171	6.59E+01	U	1.05E+02	1.72E+02	1.25E+03	1.25E+05
BP-34-SUB	Thulium-171	-6.95E+00	U	1.27E+01	1.39E+01	1.25E+03	1.25E+05
BP-35-SUB	Thulium-171	1.11E+00	U	1.07E+01	1.78E+01	1.25E+03	1.25E+05
BP-38-SUB	Thulium-171	-7.01E+00	U	1.19E+01	1.21E+01	1.25E+03	1.25E+05
BP-43-SUB	Thulium-171	-2.64E+00	U	7.34E+01	1.99E+01	1.25E+03	1.25E+05
BP-45-SUB	Thulium-171	-1.34E+01	UL	1.19E+01	1.17E+01	1.25E+03	1.25E+05
BP-46-SUB	Thulium-171	1.49E+00	U	1.40E+01	2.32E+01	1.25E+03	1.25E+05
BP-48-SUB	Thulium-171	-4.73E+00	U	3.06E+01	1.05E+01	1.25E+03	1.25E+05
BP-50-SUB	Thulium-171	-1.46E+00	U	2.84E+01	1.96E+01	1.25E+03	1.25E+05
BP-51-SUB	Thulium-171	-1.93E+01	RU	1.25E+01	1.23E+01	1.25E+03	1.25E+05

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.58 - Tin-126 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Tin-126	2.04E-03	U	5.06E-03	8.39E-03	7.11E-01	7.11E+01
LR-2-SUR	Tin-126	-6.73E-04	U	1.56E-01	8.45E-03	7.11E-01	7.11E+01
LR-3-SUR	Tin-126	1.95E-03	U	5.14E-03	8.52E-03	7.11E-01	7.11E+01
LR-4-SUR	Tin-126	6.43E-04	U	5.12E-03	8.52E-03	7.11E-01	7.11E+01
LR-5-SUR	Tin-126	-1.94E-03	U	1.14E-02	8.72E-03	7.11E-01	7.11E+01
LR-6-SUR	Tin-126	-7.51E-04	U	4.86E+00	8.36E-03	7.11E-01	7.11E+01
LR-7-SUR	Tin-126	-1.58E-03	U	1.16E-02	7.27E-03	7.11E-01	7.11E+01
LR-8-SUR	Tin-126	-2.86E-03	U	8.57E-03	8.55E-03	7.11E-01	7.11E+01
LR-9-SUR	Tin-126	1.95E-04	U	5.19E-03	8.64E-03	7.11E-01	7.11E+01
LR-10-SUR	Tin-126	-6.79E-04	U	1.36E-02	8.89E-03	7.11E-01	7.11E+01
LR-11-SUR	Tin-126	2.27E-04	U	5.15E-03	8.57E-03	7.11E-01	7.11E+01
LR-12-SUR	Tin-126	-1.10E-03	U	1.23E-01	8.64E-03	7.11E-01	7.11E+01
LR-13-SUR	Tin-126	6.55E-05	U	4.91E-03	8.18E-03	7.11E-01	7.11E+01
LR-14-SUR	Tin-126	-1.30E-03	U	2.87E-02	8.02E-03	7.11E-01	7.11E+01
LR-15-SUR	Tin-126	6.48E-04	U	5.25E-03	8.74E-03	7.11E-01	7.11E+01
LR-16-SUR	Tin-126	-7.58E-04	U	6.52E-02	8.22E-03	7.11E-01	7.11E+01
LR-17-SUR	Tin-126	-1.16E-03	U	2.45E-02	7.48E-03	7.11E-01	7.11E+01
LR-18-SUR	Tin-126	2.30E-05	U	5.19E-03	8.64E-03	7.11E-01	7.11E+01
LR-19-SUR	Tin-126	5.11E-03	B	4.35E-03	5.55E-03	7.11E-01	7.11E+01
LR-20-SUR	Tin-126	4.12E-03	U	4.38E-03	7.20E-03	7.11E-01	7.11E+01
LR-21-SUR	Tin-126	-2.42E-03	U	1.49E-02	8.97E-03	7.11E-01	7.11E+01
LR-22-SUR	Tin-126	-6.69E-04	U	2.10E-02	8.80E-03	7.11E-01	7.11E+01
LR-23-SUR	Tin-126	1.83E-04	U	5.06E-03	8.44E-03	7.11E-01	7.11E+01
LR-24-SUR	Tin-126	-9.77E-04	U	1.30E-01	7.23E-03	7.11E-01	7.11E+01
LR-25-SUR	Tin-126	-1.87E-03	U	1.59E-02	6.75E-03	7.11E-01	7.11E+01
LR-26-SUR	Tin-126	-2.55E-03	U	1.35E-02	8.68E-03	7.11E-01	7.11E+01
LR-27-SUR	Tin-126	1.25E-03	U	4.36E-03	7.25E-03	7.11E-01	7.11E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Tin-126	-1.38E-03	U	4.05E-02	8.01E-03	7.11E-01	7.11E+01
LR-4-SUB	Tin-126	-8.46E-04	U	7.29E-02	8.05E-03	7.11E-01	7.11E+01
LR-9-SUB	Tin-126	-9.51E-04	U	8.20E-02	9.06E-03	7.11E-01	7.11E+01
LR-13-SUB	Tin-126	-1.81E-04	U	1.01E-02	8.65E-03	7.11E-01	7.11E+01
LR-15-SUB	Tin-126	-3.97E-03	U	7.01E-03	9.91E-03	7.11E-01	7.11E+01
LR-18-SUB	Tin-126	-9.24E-04	U	9.34E-03	7.96E-03	7.11E-01	7.11E+01
LR-19-SUB	Tin-126	6.43E-04	U	5.12E-03	8.52E-03	7.11E-01	7.11E+01
LR-23-SUB	Tin-126	-4.03E-04	U	8.95E-02	7.90E-03	7.11E-01	7.11E+01
LR-24-SUB	Tin-126	-1.41E-03	U	7.66E-03	8.27E-03	7.11E-01	7.11E+01
LR-26-SUB	Tin-126	-1.40E-03	U	8.02E-03	8.57E-03	7.11E-01	7.11E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Tin-126	-1.62E-03	U	1.57E-02	7.22E-03	7.11E-01	7.11E+01
RP-2-SUR	Tin-126	-1.07E-03	U	8.92E-02	7.44E-03	7.11E-01	7.11E+01
RP-3-SUR	Tin-126	2.34E-05	U	3.98E-03	6.64E-03	7.11E-01	7.11E+01
RP-4-SUR	Tin-126	-8.02E-04	U	6.00E-02	6.89E-03	7.11E-01	7.11E+01
RP-5-SUR	Tin-126	1.79E-04	U	3.67E-03	6.13E-03	7.11E-01	7.11E+01
RP-6-SUR	Tin-126	6.55E-04	U	4.13E-03	6.89E-03	7.11E-01	7.11E+01
RP-7-SUR	Tin-126	-2.43E-03	U	1.12E-02	7.21E-03	7.11E-01	7.11E+01
RP-8-SUR	Tin-126	-9.63E-04	U	5.69E-02	7.38E-03	7.11E-01	7.11E+01
RP-9-SUR	Tin-126	-1.91E-03	U	1.90E-02	6.07E-03	7.11E-01	7.11E+01
RP-10-SUR	Tin-126	3.57E-03	U	4.16E-03	6.84E-03	7.11E-01	7.11E+01
RP-11-SUR	Tin-126	2.97E-03	U	4.35E-03	5.13E-03	7.11E-01	7.11E+01
RP-12-SUR	Tin-126	-6.61E-04	U	3.04E-02	6.89E-03	7.11E-01	7.11E+01
RP-13-SUR	Tin-126	1.21E-04	U	4.03E-03	6.72E-03	7.11E-01	7.11E+01
RP-14-SUR	Tin-126	7.02E-04	U	3.94E-03	6.56E-03	7.11E-01	7.11E+01
RP-15-SUR	Tin-126	1.40E-03	U	4.02E-03	6.69E-03	7.11E-01	7.11E+01
RP-16-SUR	Tin-126	-1.50E-03	U	1.54E-02	6.83E-03	7.11E-01	7.11E+01
RP-17-SUR	Tin-126	1.62E-03	U	4.20E-03	6.98E-03	7.11E-01	7.11E+01
RP-18-SUR	Tin-126	-1.06E-03	U	6.57E-02	7.12E-03	7.11E-01	7.11E+01
RP-19-SUR	Tin-126	-2.97E-03	U	8.38E-01	7.34E-03	7.11E-01	7.11E+01
RP-20-SUR	Tin-126	-2.70E-03	U	5.80E-02	5.49E-03	7.11E-01	7.11E+01
RP-21-SUR	Tin-126	4.69E-04	U	4.08E-03	6.80E-03	7.11E-01	7.11E+01

Table 6.58 - Tin-126 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Tin-126	6.32E-04	U	3.32E-03	5.54E-03	7.11E-01	7.11E+01
RP-23-SUR	Tin-126	1.26E-03	U	4.35E-03	7.21E-03	7.11E-01	7.11E+01
RP-24-SUR	Tin-126	-5.46E-04	U	2.22E-02	6.83E-03	7.11E-01	7.11E+01
RP-25-SUR	Tin-126	4.11E-04	U	4.47E-03	7.45E-03	7.11E-01	7.11E+01
RP-26-SUR	Tin-126	2.21E-05	U	4.43E-03	7.38E-03	7.11E-01	7.11E+01
RP-27-SUR	Tin-126	2.79E-05	U	4.48E-03	7.46E-03	7.11E-01	7.11E+01
RP-28-SUR	Tin-126	1.98E-05	U	4.56E-03	7.60E-03	7.11E-01	7.11E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Tin-126	2.76E-03	U	3.35E-03	5.52E-03	7.11E-01	7.11E+01
RP-5-SUB	Tin-126	-1.17E-03	U	4.03E-02	7.76E-03	7.11E-01	7.11E+01
RP-7-SUB	Tin-126	-6.93E-04	U	3.81E-02	7.61E-03	7.11E-01	7.11E+01
RP-12-SUB	Tin-126	1.72E-03	U	3.90E-03	6.47E-03	7.11E-01	7.11E+01
RP-13-SUB	Tin-126	-5.92E-05	U	5.07E-03	7.40E-03	7.11E-01	7.11E+01
RP-17-SUB	Tin-126	1.65E-03	U	4.36E-03	7.24E-03	7.11E-01	7.11E+01
RP-18-SUB	Tin-126	4.90E-03	U	5.47E-03	6.04E-03	7.11E-01	7.11E+01
RP-19-SUB	Tin-126	-3.38E-04	U	1.04E-02	7.31E-03	7.11E-01	7.11E+01
RP-20-SUB	Tin-126	1.82E-03	U	4.28E-03	7.09E-03	7.11E-01	7.11E+01
RP-28-SUB	Tin-126	2.78E-03	U	3.39E-03	5.58E-03	7.11E-01	7.11E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Tin-126	5.06E-04	U	5.21E-03	8.67E-03	7.11E-01	7.11E+01
BP-2-SUR	Tin-126	-3.79E-03	U	9.68E-03	9.07E-03	7.11E-01	7.11E+01
BP-3-SUR	Tin-126	9.83E-04	U	5.37E-03	8.93E-03	7.11E-01	7.11E+01
BP-4-SUR	Tin-126	-1.23E-03	U	7.87E-02	9.33E-03	7.11E-01	7.11E+01
BP-5-SUR	Tin-126	4.35E-04	U	5.54E-03	9.21E-03	7.11E-01	7.11E+01
BP-6-SUR	Tin-126	1.73E-04	U	5.62E-03	9.35E-03	7.11E-01	7.11E+01
BP-7-SUR	Tin-126	-1.83E-03	U	1.27E-02	9.81E-03	7.11E-01	7.11E+01
BP-8-SUR	Tin-126	-2.77E-03	U	8.72E-03	9.14E-03	7.11E-01	7.11E+01
BP-9-SUR	Tin-126	-1.15E-03	U	1.95E-02	9.32E-03	7.11E-01	7.11E+01
BP-10-SUR	Tin-126	1.61E-03	U	5.63E-03	9.34E-03	7.11E-01	7.11E+01
BP-11-SUR	Tin-126	3.17E-03	U	5.38E-03	8.89E-03	7.11E-01	7.11E+01
BP-12-SUR	Tin-126	-1.29E-03	U	1.67E-02	9.23E-03	7.11E-01	7.11E+01
BP-13-SUR	Tin-126	9.66E-05	U	5.86E-03	9.76E-03	7.11E-01	7.11E+01
BP-14-SUR	Tin-126	2.70E-03	U	3.94E-03	6.51E-03	7.11E-01	7.11E+01
BP-15-SUR	Tin-126	1.89E-03	U	5.37E-03	8.90E-03	7.11E-01	7.11E+01
BP-16-SUR	Tin-126	-1.81E-03	U	1.13E-02	8.90E-03	7.11E-01	7.11E+01
BP-17-SUR	Tin-126	1.23E-03	U	5.47E-03	9.08E-03	7.11E-01	7.11E+01
BP-18-SUR	Tin-126	4.00E-03	U	5.38E-03	8.85E-03	7.11E-01	7.11E+01
BP-19-SUR	Tin-126	-6.34E-04	U	2.54E-02	9.43E-03	7.11E-01	7.11E+01
BP-20-SUR	Tin-126	-1.02E-03	U	2.42E-02	9.39E-03	7.11E-01	7.11E+01
BP-21-SUR	Tin-126	-7.49E-04	U	6.57E-02	9.02E-03	7.11E-01	7.11E+01
BP-22-SUR	Tin-126	4.50E-04	U	5.53E-03	9.20E-03	7.11E-01	7.11E+01
BP-23-SUR	Tin-126	-6.55E-04	U	4.16E-02	9.63E-03	7.11E-01	7.11E+01
BP-24-SUR	Tin-126	-1.11E-03	U	4.04E-02	6.85E-03	7.11E-01	7.11E+01
BP-25-SUR	Tin-126	7.17E-03	B	6.97E-03	7.53E-03	7.11E-01	7.11E+01
BP-26-SUR	Tin-126	3.30E-03	U	5.49E-03	9.08E-03	7.11E-01	7.11E+01
BP-27-SUR	Tin-126	-1.70E-03	U	1.90E-02	9.61E-03	7.11E-01	7.11E+01
BP-28-SUR	Tin-126	-1.14E-03	U	4.48E-02	8.82E-03	7.11E-01	7.11E+01
BP-29-SUR	Tin-126	4.40E-03	U	4.75E-03	5.92E-03	7.11E-01	7.11E+01
BP-30-SUR	Tin-126	-4.91E-05	U	6.51E-03	7.50E-03	7.11E-01	7.11E+01
BP-31-SUR	Tin-126	-7.32E-04	U	4.02E-01	9.07E-03	7.11E-01	7.11E+01
BP-32-SUR	Tin-126	1.60E-03	U	5.61E-03	9.30E-03	7.11E-01	7.11E+01
BP-33-SUR	Tin-126	3.94E-04	U	5.61E-03	9.33E-03	7.11E-01	7.11E+01
BP-34-SUR	Tin-126	2.97E-04	U	5.76E-03	9.58E-03	7.11E-01	7.11E+01
BP-35-SUR	Tin-126	1.41E-03	U	4.92E-03	8.17E-03	7.11E-01	7.11E+01
BP-36-SUR	Tin-126	-3.13E-03	U	6.24E-03	8.50E-03	7.11E-01	7.11E+01
BP-37-SUR	Tin-126	-5.51E-04	U	1.59E-02	8.75E-03	7.11E-01	7.11E+01
BP-38-SUR	Tin-126	7.42E-03	B	6.30E-03	6.67E-03	7.11E-01	7.11E+01
BP-39-SUR	Tin-126	1.90E-03	U	4.14E-03	6.87E-03	7.11E-01	7.11E+01
BP-40-SUR	Tin-126	-3.86E-03	U	8.50E-03	8.78E-03	7.11E-01	7.11E+01
BP-41-SUR	Tin-126	-8.90E-04	U	1.42E-01	9.19E-03	7.11E-01	7.11E+01
BP-42-SUR	Tin-126	-7.79E-04	U	9.76E-02	8.66E-03	7.11E-01	7.11E+01

Table 6.58 - Tin-126 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Tin-126	-9.04E-04	U	8.78E-02	8.87E-03	7.11E-01	7.11E+01
BP-44-SUR	Tin-126	-3.43E-03	U	8.76E-03	8.72E-03	7.11E-01	7.11E+01
BP-45-SUR	Tin-126	1.26E-03	U	5.19E-03	8.62E-03	7.11E-01	7.11E+01
BP-46-SUR	Tin-126	4.16E-04	U	4.69E-03	7.82E-03	7.11E-01	7.11E+01
BP-47-SUR	Tin-126	-9.39E-05	U	3.26E-02	7.51E-03	7.11E-01	7.11E+01
BP-48-SUR	Tin-126	-3.99E-03	U	8.99E-03	9.10E-03	7.11E-01	7.11E+01
BP-49-SUR	Tin-126	-1.37E-03	U	5.69E-03	7.87E-03	7.11E-01	7.11E+01
BP-50-SUR	Tin-126	-7.33E-04	U	7.00E-02	7.45E-03	7.11E-01	7.11E+01
BP-51-SUR	Tin-126	9.43E-04	U	4.52E-03	7.48E-03	7.11E-01	7.11E+01
BP-52-SUR	Tin-126	-1.14E-03	U	4.44E-03	5.93E-03	7.11E-01	7.11E+01
BP-53-SUR	Tin-126	1.89E-03	U	5.13E-03	8.51E-03	7.11E-01	7.11E+01
BP-54-SUR	Tin-126	1.03E-03	U	4.04E-03	6.69E-03	7.11E-01	7.11E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Tin-126	-3.07E-03	U	2.28E-01	7.52E-03	7.11E-01	7.11E+01
BP-4-SUB	Tin-126	-5.20E-05	U	7.82E-03	6.91E-03	7.11E-01	7.11E+01
BP-5-SUB	Tin-126	9.66E-04	U	5.06E-03	8.42E-03	7.11E-01	7.11E+01
BP-9-SUB	Tin-126	-5.16E-04	U	1.42E-02	7.41E-03	7.11E-01	7.11E+01
BP-12-SUB	Tin-126	-2.31E-05	U	5.33E-03	8.34E-03	7.11E-01	7.11E+01
BP-13-SUB	Tin-126	2.48E-03	U	5.27E-03	8.72E-03	7.11E-01	7.11E+01
BP-14-SUB	Tin-126	-1.48E-03	U	3.35E-02	7.64E-03	7.11E-01	7.11E+01
BP-16-SUB	Tin-126	-3.27E-03	U	8.47E-03	7.49E-03	7.11E-01	7.11E+01
BP-20-SUB	Tin-126	-1.43E-03	U	4.27E-02	8.30E-03	7.11E-01	7.11E+01
BP-23-SUB	Tin-126	1.08E-03	U	4.35E-03	7.23E-03	7.11E-01	7.11E+01
BP-29-SUB	Tin-126	-1.50E-02	U	1.03E-01	1.64E-01	7.11E-01	7.11E+01
BP-34-SUB	Tin-126	-3.91E-03	U	8.85E-03	8.54E-03	7.11E-01	7.11E+01
BP-35-SUB	Tin-126	-2.46E-03	U	1.11E-02	7.58E-03	7.11E-01	7.11E+01
BP-38-SUB	Tin-126	8.77E-04	U	5.43E-03	9.04E-03	7.11E-01	7.11E+01
BP-43-SUB	Tin-126	-2.16E-03	U	1.15E-02	8.72E-03	7.11E-01	7.11E+01
BP-45-SUB	Tin-126	9.25E-04	U	5.31E-03	8.83E-03	7.11E-01	7.11E+01
BP-46-SUB	Tin-126	-2.01E-03	U	1.75E-02	1.02E-02	7.11E-01	7.11E+01
BP-48-SUB	Tin-126	-1.33E-03	U	3.23E-02	8.60E-03	7.11E-01	7.11E+01
BP-50-SUB	Tin-126	-8.15E-04	U	2.21E-01	8.64E-03	7.11E-01	7.11E+01
BP-51-SUB	Tin-126	-2.59E-03	U	1.00E-02	9.18E-03	7.11E-01	7.11E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.59 - Tritium Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Tritium	-1.64E+00	U	3.31E+00	6.47E+00	1.60E-01	1.60E+01
LR-2-SUR	Tritium	1.63E+00	U	3.53E+00	6.44E+00	1.60E-01	1.60E+01
LR-3-SUR	Tritium	8.66E-01	U	3.41E+00	6.35E+00	1.60E-01	1.60E+01
LR-4-SUR	Tritium	5.94E-01	U	3.25E+00	6.10E+00	1.60E-01	1.60E+01
LR-5-SUR	Tritium	-2.90E+00	U	3.42E+00	6.76E+00	1.60E-01	1.60E+01
LR-6-SUR	Tritium	-9.64E-01	U	3.20E+00	6.19E+00	1.60E-01	1.60E+01
LR-7-SUR	Tritium	-1.18E-01	U	3.18E+00	6.06E+00	1.60E-01	1.60E+01
LR-8-SUR	Tritium	3.86E-01	U	3.50E+00	6.60E+00	1.60E-01	1.60E+01
LR-9-SUR	Tritium	-1.64E+00	U	3.31E+00	6.47E+00	1.60E-01	1.60E+01
LR-10-SUR	Tritium	-4.18E-01	U	2.79E+00	5.36E+00	1.60E-01	1.60E+01
LR-11-SUR	Tritium	2.37E+00	U	3.41E+00	6.09E+00	1.60E-01	1.60E+01
LR-12-SUR	Tritium	-6.54E-01	U	3.53E+00	6.78E+00	1.60E-01	1.60E+01
LR-13-SUR	Tritium	6.10E-01	U	3.34E+00	6.27E+00	1.60E-01	1.60E+01
LR-14-SUR	Tritium	3.37E+00	U	3.37E+00	5.77E+00	1.60E-01	1.60E+01
LR-15-SUR	Tritium	-5.87E-01	U	3.13E+00	6.02E+00	1.60E-01	1.60E+01
LR-16-SUR	Tritium	-2.50E-01	U	3.36E+00	6.43E+00	1.60E-01	1.60E+01
LR-17-SUR	Tritium	-7.60E-01	U	2.88E+00	5.57E+00	1.60E-01	1.60E+01
LR-18-SUR	Tritium	0.00E+00	U	3.47E+00	6.59E+00	1.60E-01	1.60E+01
LR-19-SUR	Tritium	1.51E+00	U	3.04E+00	5.57E+00	1.60E-01	1.60E+01
LR-20-SUR	Tritium	1.02E+00	U	2.90E+00	5.40E+00	1.60E-01	1.60E+01
LR-21-SUR	Tritium	3.03E+00	U	3.33E+00	5.81E+00	1.60E-01	1.60E+01
LR-22-SUR	Tritium	2.22E-01	U	2.79E+00	5.32E+00	1.60E-01	1.60E+01
LR-23-SUR	Tritium	-8.95E-01	U	3.13E+00	6.12E+00	1.60E-01	1.60E+01
LR-24-SUR	Tritium	4.23E+00		3.57E+00	5.96E+00	1.60E-01	1.60E+01
LR-25-SUR	Tritium	6.37E-01	U	3.23E+00	6.10E+00	1.60E-01	1.60E+01
LR-26-SUR	Tritium	-2.23E+00	U	2.66E+00	5.34E+00	1.60E-01	1.60E+01
LR-27-SUR	Tritium	5.76E-01	U	2.92E+00	5.51E+00	1.60E-01	1.60E+01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Tritium	2.10E+00	U	3.10E+00	5.57E+00	1.60E-01	1.60E+01
LR-4-SUB	Tritium	-2.13E+00	U	2.83E+00	5.67E+00	1.60E-01	1.60E+01
LR-9-SUB	Tritium	1.42E+00	U	3.34E+00	6.18E+00	1.60E-01	1.60E+01
LR-13-SUB	Tritium	1.74E+00	U	3.26E+00	5.95E+00	1.60E-01	1.60E+01
LR-15-SUB	Tritium	2.14E+00	U	3.16E+00	5.68E+00	1.60E-01	1.60E+01
LR-18-SUB	Tritium	4.36E+00		3.67E+00	6.14E+00	1.60E-01	1.60E+01
LR-19-SUB	Tritium	3.83E+00		3.40E+00	5.73E+00	1.60E-01	1.60E+01
LR-23-SUB	Tritium	3.08E+00	U	3.27E+00	5.68E+00	1.60E-01	1.60E+01
LR-24-SUB	Tritium	1.35E+00	U	3.19E+00	5.89E+00	1.60E-01	1.60E+01
LR-26-SUB	Tritium	3.48E+00		3.36E+00	5.75E+00	1.60E-01	1.60E+01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Tritium	1.39E+00	U	3.14E+00	5.76E+00	1.60E-01	1.60E+01
RP-2-SUR	Tritium	6.69E-01	U	2.97E+00	5.57E+00	1.60E-01	1.60E+01
RP-3-SUR	Tritium	-2.06E+00	U	3.26E+00	6.44E+00	1.60E-01	1.60E+01
RP-4-SUR	Tritium	2.69E+00	U	2.97E+00	5.16E+00	1.60E-01	1.60E+01
RP-5-SUR	Tritium	-1.95E+00	U	3.08E+00	6.09E+00	1.60E-01	1.60E+01
RP-6-SUR	Tritium	-3.84E-01	U	3.32E+00	6.38E+00	1.60E-01	1.60E+01
RP-7-SUR	Tritium	-5.63E-01	U	2.90E+00	5.61E+00	1.60E-01	1.60E+01
RP-8-SUR	Tritium	-3.78E-01	U	3.27E+00	6.28E+00	1.60E-01	1.60E+01
RP-9-SUR	Tritium	3.90E+00		3.79E+00	6.48E+00	1.60E-01	1.60E+01
RP-10-SUR	Tritium	6.95E-01	U	2.65E+00	4.95E+00	1.60E-01	1.60E+01
RP-11-SUR	Tritium	-6.98E-01	U	2.99E+00	5.80E+00	1.60E-01	1.60E+01
RP-12-SUR	Tritium	-1.69E+00	U	3.29E+00	6.47E+00	1.60E-01	1.60E+01
RP-13-SUR	Tritium	7.34E-01	U	3.26E+00	6.10E+00	1.60E-01	1.60E+01
RP-14-SUR	Tritium	-1.26E-01	U	3.29E+00	6.30E+00	1.60E-01	1.60E+01
RP-15-SUR	Tritium	5.59E-01	U	2.97E+00	5.58E+00	1.60E-01	1.60E+01
RP-16-SUR	Tritium	3.95E-01	U	3.47E+00	6.56E+00	1.60E-01	1.60E+01
RP-17-SUR	Tritium	-7.22E-01	U	3.10E+00	6.00E+00	1.60E-01	1.60E+01
RP-18-SUR	Tritium	7.15E-01	U	3.17E+00	5.94E+00	1.60E-01	1.60E+01
RP-19-SUR	Tritium	-5.68E-01	U	3.11E+00	5.97E+00	1.60E-01	1.60E+01
RP-20-SUR	Tritium	6.14E-01	U	3.45E+00	6.45E+00	1.60E-01	1.60E+01
RP-21-SUR	Tritium	-1.07E+00	U	2.92E+00	5.65E+00	1.60E-01	1.60E+01

Table 6.59 - Tritium Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Tritium	3.75E+00	U	3.72E+00	6.35E+00	1.60E-01	1.60E+01
RP-23-SUR	Tritium	-2.41E-01	U	3.32E+00	6.33E+00	1.60E-01	1.60E+01
RP-24-SUR	Tritium	-1.36E+00	U	3.35E+00	6.50E+00	1.60E-01	1.60E+01
RP-25-SUR	Tritium	9.45E-01	U	3.35E+00	6.20E+00	1.60E-01	1.60E+01
RP-26-SUR	Tritium	6.99E-01	U	3.28E+00	6.12E+00	1.60E-01	1.60E+01
RP-27-SUR	Tritium	3.55E-01	U	3.31E+00	6.22E+00	1.60E-01	1.60E+01
RP-28-SUR	Tritium	1.18E-01	U	3.27E+00	6.19E+00	1.60E-01	1.60E+01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Tritium	1.45E+00	U	3.20E+00	5.84E+00	1.60E-01	1.60E+01
RP-5-SUB	Tritium	-6.96E-01	U	3.17E+00	6.09E+00	1.60E-01	1.60E+01
RP-7-SUB	Tritium	-8.08E-01	U	3.15E+00	6.06E+00	1.60E-01	1.60E+01
RP-12-SUB	Tritium	-5.60E-01	U	3.07E+00	5.88E+00	1.60E-01	1.60E+01
RP-13-SUB	Tritium	-5.67E-01	U	3.11E+00	5.96E+00	1.60E-01	1.60E+01
RP-17-SUB	Tritium	0.00E+00	U	3.20E+00	6.15E+00	1.60E-01	1.60E+01
RP-18-SUB	Tritium	1.51E+00	U	3.28E+00	6.03E+00	1.60E-01	1.60E+01
RP-19-SUB	Tritium	-8.56E-01	U	2.99E+00	5.85E+00	1.60E-01	1.60E+01
RP-20-SUB	Tritium	0.00E+00	U	3.01E+00	5.77E+00	1.60E-01	1.60E+01
RP-28-SUB	Tritium	3.10E+00	U	3.08E+00	5.30E+00	1.60E-01	1.60E+01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Tritium	2.80E+00	U	3.37E+00	5.94E+00	1.60E-01	1.60E+01
BP-2-SUR	Tritium	7.38E-01	U	2.61E+00	4.91E+00	1.60E-01	1.60E+01
BP-3-SUR	Tritium	4.47E-01	U	2.74E+00	5.21E+00	1.60E-01	1.60E+01
BP-4-SUR	Tritium	2.16E+00	U	2.96E+00	5.30E+00	1.60E-01	1.60E+01
BP-5-SUR	Tritium	1.23E+00	U	3.09E+00	5.74E+00	1.60E-01	1.60E+01
BP-6-SUR	Tritium	2.44E+00	U	2.71E+00	4.74E+00	1.60E-01	1.60E+01
BP-7-SUR	Tritium	6.00E-01	U	2.95E+00	5.58E+00	1.60E-01	1.60E+01
BP-8-SUR	Tritium	1.55E+00	U	3.03E+00	5.56E+00	1.60E-01	1.60E+01
BP-9-SUR	Tritium	2.14E+00	U	2.80E+00	4.99E+00	1.60E-01	1.60E+01
BP-10-SUR	Tritium	2.34E+00	U	2.60E+00	4.54E+00	1.60E-01	1.60E+01
BP-11-SUR	Tritium	2.10E+00	U	3.20E+00	5.77E+00	1.60E-01	1.60E+01
BP-12-SUR	Tritium	2.98E+00	U	2.99E+00	5.15E+00	1.60E-01	1.60E+01
BP-13-SUR	Tritium	1.84E+00	U	2.79E+00	5.03E+00	1.60E-01	1.60E+01
BP-14-SUR	Tritium	2.11E+00	U	2.76E+00	4.91E+00	1.60E-01	1.60E+01
BP-15-SUR	Tritium	2.30E+00	U	3.16E+00	5.65E+00	1.60E-01	1.60E+01
BP-16-SUR	Tritium	4.69E+00		3.60E+00	5.91E+00	1.60E-01	1.60E+01
BP-17-SUR	Tritium	2.55E+00	U	3.06E+00	5.40E+00	1.60E-01	1.60E+01
BP-18-SUR	Tritium	1.84E+00	U	2.95E+00	5.35E+00	1.60E-01	1.60E+01
BP-19-SUR	Tritium	3.94E+00		3.28E+00	5.46E+00	1.60E-01	1.60E+01
BP-20-SUR	Tritium	1.39E+00	U	3.14E+00	5.76E+00	1.60E-01	1.60E+01
BP-21-SUR	Tritium	1.02E+00	U	3.06E+00	5.67E+00	1.60E-01	1.60E+01
BP-22-SUR	Tritium	-5.88E-01	U	3.03E+00	5.86E+00	1.60E-01	1.60E+01
BP-23-SUR	Tritium	-4.93E-01	U	2.55E+00	4.92E+00	1.60E-01	1.60E+01
BP-24-SUR	Tritium	7.13E-01	U	2.72E+00	5.08E+00	1.60E-01	1.60E+01
BP-25-SUR	Tritium	-1.52E+00	U	2.96E+00	5.82E+00	1.60E-01	1.60E+01
BP-26-SUR	Tritium	-1.89E+00	U	2.98E+00	5.89E+00	1.60E-01	1.60E+01
BP-27-SUR	Tritium	2.42E+00	U	3.10E+00	5.49E+00	1.60E-01	1.60E+01
BP-28-SUR	Tritium	1.92E+00	U	3.52E+00	6.40E+00	1.60E-01	1.60E+01
BP-29-SUR	Tritium	-2.72E+00	U	2.96E+00	5.90E+00	1.60E-01	1.60E+01
BP-30-SUR	Tritium	1.42E+00	U	2.97E+00	5.43E+00	1.60E-01	1.60E+01
BP-31-SUR	Tritium	1.50E+00	U	3.14E+00	5.74E+00	1.60E-01	1.60E+01
BP-32-SUR	Tritium	-3.41E-01	U	2.95E+00	5.67E+00	1.60E-01	1.60E+01
BP-33-SUR	Tritium	0.00E+00	U	3.42E+00	6.53E+00	1.60E-01	1.60E+01
BP-34-SUR	Tritium	-9.73E-01	U	3.12E+00	6.07E+00	1.60E-01	1.60E+01
BP-35-SUR	Tritium	1.13E+00	U	3.87E+00	7.28E+00	1.60E-01	1.60E+01
BP-36-SUR	Tritium	2.40E+00	U	4.00E+00	7.28E+00	1.60E-01	1.60E+01
BP-37-SUR	Tritium	-6.20E-01	U	3.56E+00	6.97E+00	1.60E-01	1.60E+01
BP-38-SUR	Tritium	0.00E+00	U	3.62E+00	7.01E+00	1.60E-01	1.60E+01
BP-39-SUR	Tritium	1.80E+00	U	4.03E+00	7.46E+00	1.60E-01	1.60E+01
BP-40-SUR	Tritium	-1.70E+00	U	3.85E+00	7.68E+00	1.60E-01	1.60E+01
BP-41-SUR	Tritium	1.30E+00	U	3.96E+00	7.43E+00	1.60E-01	1.60E+01
BP-42-SUR	Tritium	9.30E-01	U	3.73E+00	7.05E+00	1.60E-01	1.60E+01

Table 6.59 - Tritium Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Tritium	-1.32E+00	U	3.81E+00	7.56E+00	1.60E-01	1.60E+01
BP-44-SUR	Tritium	2.71E+00	U	4.03E+00	7.27E+00	1.60E-01	1.60E+01
BP-45-SUR	Tritium	-2.76E-01	U	3.31E+00	6.45E+00	1.60E-01	1.60E+01
BP-46-SUR	Tritium	-2.92E+00	U	3.87E+00	7.84E+00	1.60E-01	1.60E+01
BP-47-SUR	Tritium	1.62E+00	U	3.94E+00	7.32E+00	1.60E-01	1.60E+01
BP-48-SUR	Tritium	3.08E-01	U	3.75E+00	7.19E+00	1.60E-01	1.60E+01
BP-49-SUR	Tritium	-1.83E+00	U	3.80E+00	7.59E+00	1.60E-01	1.60E+01
BP-50-SUR	Tritium	-1.74E+00	U	3.95E+00	7.87E+00	1.60E-01	1.60E+01
BP-51-SUR	Tritium	1.75E+00	U	3.92E+00	7.27E+00	1.60E-01	1.60E+01
BP-52-SUR	Tritium	-1.82E+00	U	3.78E+00	7.56E+00	1.60E-01	1.60E+01
BP-53-SUR	Tritium	1.62E-01	U	3.65E+00	7.03E+00	1.60E-01	1.60E+01
BP-54-SUR	Tritium	-1.07E+00	U	3.50E+00	6.92E+00	1.60E-01	1.60E+01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Tritium	1.33E+00	U	4.26E+00	7.68E+00	1.60E-01	1.60E+01
BP-4-SUB	Tritium	0.00E+00	U	4.04E+00	7.41E+00	1.60E-01	1.60E+01
BP-5-SUB	Tritium	5.33E+00		4.87E+00	8.14E+00	1.60E-01	1.60E+01
BP-9-SUB	Tritium	6.37E+00		4.88E+00	7.94E+00	1.60E-01	1.60E+01
BP-12-SUB	Tritium	7.08E-01	U	4.33E+00	7.88E+00	1.60E-01	1.60E+01
BP-13-SUB	Tritium	4.08E+00	U	4.75E+00	8.16E+00	1.60E-01	1.60E+01
BP-14-SUB	Tritium	5.36E+00		4.70E+00	7.81E+00	1.60E-01	1.60E+01
BP-16-SUB	Tritium	2.10E+00	U	3.77E+00	6.67E+00	1.60E-01	1.60E+01
BP-20-SUB	Tritium	5.69E+00		4.25E+00	6.88E+00	1.60E-01	1.60E+01
BP-23-SUB	Tritium	4.21E+00	U	4.26E+00	7.21E+00	1.60E-01	1.60E+01
BP-29-SUB	Tritium	4.99E+00	U	4.91E+00	8.28E+00	1.60E-01	1.60E+01
BP-34-SUB	Tritium	2.02E+00	U	4.64E+00	8.29E+00	1.60E-01	1.60E+01
BP-35-SUB	Tritium	2.45E+00	U	4.23E+00	7.47E+00	1.60E-01	1.60E+01
BP-38-SUB	Tritium	2.57E+00	U	4.06E+00	7.14E+00	1.60E-01	1.60E+01
BP-43-SUB	Tritium	6.35E+00		4.59E+00	7.38E+00	1.60E-01	1.60E+01
BP-45-SUB	Tritium	1.95E+00	U	4.15E+00	7.45E+00	1.60E-01	1.60E+01
BP-46-SUB	Tritium	7.07E+00		4.91E+00	7.82E+00	1.60E-01	1.60E+01
BP-48-SUB	Tritium	7.27E+00		4.96E+00	7.88E+00	1.60E-01	1.60E+01
BP-50-SUB	Tritium	5.59E+00		4.30E+00	7.00E+00	1.60E-01	1.60E+01
BP-51-SUB	Tritium	6.59E+00		4.84E+00	7.82E+00	1.60E-01	1.60E+01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.60 - Uranium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Uranium-232	-3.05E-02	U	5.73E-02	1.40E-01	5.90E-04	5.90E-02
LR-2-SUR	Uranium-232	4.03E-02	U	6.48E-02	1.28E-01	5.90E-04	5.90E-02
LR-3-SUR	Uranium-232	-1.58E-02	U	6.17E-02	1.51E-01	5.90E-04	5.90E-02
LR-4-SUR	Uranium-232	-3.88E-03	U	6.97E-02	1.50E-01	5.90E-04	5.90E-02
LR-5-SUR	Uranium-232	1.73E-02	U	5.83E-02	1.17E-01	5.90E-04	5.90E-02
LR-6-SUR	Uranium-232	1.96E-02	U	6.61E-02	1.59E-01	5.90E-04	5.90E-02
LR-7-SUR	Uranium-232	-3.52E-03	U	6.32E-02	1.36E-01	5.90E-04	5.90E-02
LR-8-SUR	Uranium-232	-1.68E-02	U	6.56E-02	1.60E-01	5.90E-04	5.90E-02
LR-9-SUR	Uranium-232	-6.65E-03	U	7.07E-02	1.93E-01	5.90E-04	5.90E-02
LR-10-SUR	Uranium-232	-6.89E-03	U	5.63E-02	1.27E-01	5.90E-04	5.90E-02
LR-11-SUR	Uranium-232	-2.52E-03	U	5.65E-02	1.43E-01	5.90E-04	5.90E-02
LR-12-SUR	Uranium-232	-1.66E-02	U	6.21E-02	1.26E-01	5.90E-04	5.90E-02
LR-13-SUR	Uranium-232	6.39E-04	U	5.74E-02	1.17E-01	5.90E-04	5.90E-02
LR-14-SUR	Uranium-232	-1.32E-02	U	6.62E-02	1.26E-01	5.90E-04	5.90E-02
LR-15-SUR	Uranium-232	5.54E-02	U	8.13E-02	1.53E-01	5.90E-04	5.90E-02
LR-16-SUR	Uranium-232	1.39E-02	U	4.66E-02	9.39E-02	5.90E-04	5.90E-02
LR-17-SUR	Uranium-232	-2.63E-02	U	4.96E-02	1.21E-01	5.90E-04	5.90E-02
LR-18-SUR	Uranium-232	-3.28E-03	U	5.90E-02	1.27E-01	5.90E-04	5.90E-02
LR-19-SUR	Uranium-232	2.59E-02	U	5.99E-02	1.35E-01	5.90E-04	5.90E-02
LR-20-SUR	Uranium-232	-1.25E-02	U	6.22E-02	1.18E-01	5.90E-04	5.90E-02
LR-21-SUR	Uranium-232	-4.07E-03	U	7.31E-02	1.57E-01	5.90E-04	5.90E-02
LR-22-SUR	Uranium-232	-1.42E-02	U	5.50E-02	1.11E-01	5.90E-04	5.90E-02
LR-23-SUR	Uranium-232	1.02E-03	U	4.57E-02	1.12E-01	5.90E-04	5.90E-02
LR-24-SUR	Uranium-232	-3.32E-03	U	5.97E-02	1.28E-01	5.90E-04	5.90E-02
LR-25-SUR	Uranium-232	-3.35E-02	U	6.30E-02	1.53E-01	5.90E-04	5.90E-02
LR-26-SUR	Uranium-232	-4.46E-02	U	6.85E-02	1.97E-01	5.90E-04	5.90E-02
LR-27-SUR	Uranium-232	2.49E-02	U	5.91E-02	1.03E-01	5.90E-04	5.90E-02
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Uranium-232	1.52E-02	U	7.19E-02	1.10E-01	5.90E-04	5.90E-02
LR-4-SUB	Uranium-232	2.71E-02	U	6.84E-02	1.23E-01	5.90E-04	5.90E-02
LR-9-SUB	Uranium-232	6.96E-04	U	6.26E-02	1.27E-01	5.90E-04	5.90E-02
LR-13-SUB	Uranium-232	1.04E-02	U	6.70E-02	1.51E-01	5.90E-04	5.90E-02
LR-15-SUB	Uranium-232	-9.72E-03	U	6.13E-02	1.11E-01	5.90E-04	5.90E-02
LR-18-SUB	Uranium-232	1.36E-02	U	6.45E-02	9.89E-02	5.90E-04	5.90E-02
LR-19-SUB	Uranium-232	1.97E-03	U	7.84E-02	1.49E-01	5.90E-04	5.90E-02
LR-23-SUB	Uranium-232	-5.58E-03	U	4.56E-02	1.03E-01	5.90E-04	5.90E-02
LR-24-SUB	Uranium-232	5.76E-03	U	7.39E-02	1.40E-01	5.90E-04	5.90E-02
LR-26-SUB	Uranium-232	1.02E-02	U	7.05E-02	1.23E-01	5.90E-04	5.90E-02
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Uranium-232	1.11E-02	U	5.24E-02	8.03E-02	5.90E-04	5.90E-02
RP-2-SUR	Uranium-232	2.41E-02	U	6.38E-02	1.18E-01	5.90E-04	5.90E-02
RP-3-SUR	Uranium-232	-2.22E-02	U	5.55E-02	1.25E-01	5.90E-04	5.90E-02
RP-4-SUR	Uranium-232	-1.10E-02	U	5.49E-02	1.04E-01	5.90E-04	5.90E-02
RP-5-SUR	Uranium-232	2.76E-02	U	5.66E-02	8.64E-02	5.90E-04	5.90E-02
RP-6-SUR	Uranium-232	-8.59E-03	U	5.42E-02	9.79E-02	5.90E-04	5.90E-02
RP-7-SUR	Uranium-232	-4.06E-03	U	6.08E-02	9.33E-02	5.90E-04	5.90E-02
RP-8-SUR	Uranium-232	-1.19E-02	U	5.96E-02	1.13E-01	5.90E-04	5.90E-02
RP-9-SUR	Uranium-232	5.80E-03	U	4.59E-02	8.53E-02	5.90E-04	5.90E-02
RP-10-SUR	Uranium-232	-5.75E-03	U	4.70E-02	1.06E-01	5.90E-04	5.90E-02
RP-11-SUR	Uranium-232	-8.69E-03	U	6.61E-02	1.92E-01	5.90E-04	5.90E-02
RP-12-SUR	Uranium-232	7.59E-03	U	5.25E-02	9.14E-02	5.90E-04	5.90E-02
RP-13-SUR	Uranium-232	-5.40E-03	U	4.27E-02	7.93E-02	5.90E-04	5.90E-02
RP-14-SUR	Uranium-232	9.04E-03	U	6.25E-02	1.09E-01	5.90E-04	5.90E-02
RP-15-SUR	Uranium-232	1.34E-02	U	4.64E-02	9.43E-02	5.90E-04	5.90E-02
RP-16-SUR	Uranium-232	1.50E-02	U	5.91E-02	1.28E-01	5.90E-04	5.90E-02
RP-17-SUR	Uranium-232	-7.22E-03	U	5.41E-02	9.41E-02	5.90E-04	5.90E-02
RP-18-SUR	Uranium-232	4.41E-03	U	5.66E-02	1.07E-01	5.90E-04	5.90E-02
RP-19-SUR	Uranium-232	-1.23E-02	U	6.15E-02	1.17E-01	5.90E-04	5.90E-02
RP-20-SUR	Uranium-232	-1.27E-02	U	4.60E-02	9.43E-02	5.90E-04	5.90E-02
RP-21-SUR	Uranium-232	-5.68E-03	U	4.64E-02	1.05E-01	5.90E-04	5.90E-02

Table 6.60 - Uranium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Uranium-232	4.49E-03	U	5.77E-02	1.10E-01	5.90E-04	5.90E-02
RP-23-SUR	Uranium-232	-7.11E-03	U	5.32E-02	9.27E-02	5.90E-04	5.90E-02
RP-24-SUR	Uranium-232	1.36E-02	U	4.72E-02	9.59E-02	5.90E-04	5.90E-02
RP-25-SUR	Uranium-232	-7.28E-03	U	5.46E-02	9.50E-02	5.90E-04	5.90E-02
RP-26-SUR	Uranium-232	-4.30E-03	U	6.44E-02	9.89E-02	5.90E-04	5.90E-02
RP-27-SUR	Uranium-232	-1.22E-02	U	6.08E-02	1.16E-01	5.90E-04	5.90E-02
RP-28-SUR	Uranium-232	-1.39E-02	U	5.04E-02	1.03E-01	5.90E-04	5.90E-02
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Uranium-232	4.34E-02	U	6.98E-02	1.38E-01	5.90E-04	5.90E-02
RP-5-SUB	Uranium-232	1.65E-02	U	4.36E-02	8.09E-02	5.90E-04	5.90E-02
RP-7-SUB	Uranium-232	1.70E-02	U	4.49E-02	8.34E-02	5.90E-04	5.90E-02
RP-12-SUB	Uranium-232	-2.92E-02	U	5.80E-02	1.68E-01	5.90E-04	5.90E-02
RP-13-SUB	Uranium-232	7.04E-03	U	5.56E-02	1.03E-01	5.90E-04	5.90E-02
RP-17-SUB	Uranium-232	-4.31E-03	U	6.45E-02	9.90E-02	5.90E-04	5.90E-02
RP-18-SUB	Uranium-232	7.32E-03	U	6.12E-02	1.11E-01	5.90E-04	5.90E-02
RP-19-SUB	Uranium-232	4.37E-03	U	5.60E-02	1.06E-01	5.90E-04	5.90E-02
RP-20-SUB	Uranium-232	-1.61E-03	U	6.43E-02	1.12E-01	5.90E-04	5.90E-02
RP-28-SUB	Uranium-232	1.48E-03	U	6.66E-02	1.63E-01	5.90E-04	5.90E-02
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Uranium-232	-1.33E-02	U	5.46E-02	1.11E-01	5.90E-04	5.90E-02
BP-2-SUR	Uranium-232	1.35E-02	U	7.09E-02	1.15E-01	5.90E-04	5.90E-02
BP-3-SUR	Uranium-232	5.12E-03	U	6.73E-02	1.29E-01	5.90E-04	5.90E-02
BP-4-SUR	Uranium-232	1.41E-02	U	7.39E-02	1.20E-01	5.90E-04	5.90E-02
BP-5-SUR	Uranium-232	-1.80E-02	U	7.35E-02	1.49E-01	5.90E-04	5.90E-02
BP-6-SUR	Uranium-232	-1.83E-02	U	5.43E-02	1.19E-01	5.90E-04	5.90E-02
BP-7-SUR	Uranium-232	3.81E-03	U	7.00E-02	1.70E-01	5.90E-04	5.90E-02
BP-8-SUR	Uranium-232	2.23E-02	U	7.45E-02	1.51E-01	5.90E-04	5.90E-02
BP-9-SUR	Uranium-232	2.85E-03	U	5.93E-02	1.22E-01	5.90E-04	5.90E-02
BP-10-SUR	Uranium-232	1.29E-02	U	5.06E-02	1.30E-01	5.90E-04	5.90E-02
BP-11-SUR	Uranium-232	-4.21E-03	U	7.74E-02	1.68E-01	5.90E-04	5.90E-02
BP-12-SUR	Uranium-232	7.31E-03	U	6.73E-02	1.24E-01	5.90E-04	5.90E-02
BP-13-SUR	Uranium-232	-5.33E-03	U	6.53E-02	1.06E-01	5.90E-04	5.90E-02
BP-14-SUR	Uranium-232	2.38E-02	U	6.30E-02	1.17E-01	5.90E-04	5.90E-02
BP-15-SUR	Uranium-232	-3.36E-02	U	6.90E-02	1.67E-01	5.90E-04	5.90E-02
BP-16-SUR	Uranium-232	1.94E-03	U	7.13E-02	1.45E-01	5.90E-04	5.90E-02
BP-17-SUR	Uranium-232	-1.47E-02	U	7.16E-02	1.47E-01	5.90E-04	5.90E-02
BP-18-SUR	Uranium-232	1.71E-02	U	4.93E-02	9.46E-02	5.90E-04	5.90E-02
BP-19-SUR	Uranium-232	-1.66E-02	U	6.03E-02	1.24E-01	5.90E-04	5.90E-02
BP-20-SUR	Uranium-232	2.33E-02	U	5.39E-02	1.21E-01	5.90E-04	5.90E-02
BP-21-SUR	Uranium-232	-1.09E-02	U	6.77E-02	1.29E-01	5.90E-04	5.90E-02
BP-22-SUR	Uranium-232	-8.29E-03	U	6.21E-02	1.08E-01	5.90E-04	5.90E-02
BP-23-SUR	Uranium-232	4.17E-01		1.87E-01	6.70E-02	5.90E-04	5.90E-02
BP-24-SUR	Uranium-232	-9.79E-03	U	7.33E-02	1.28E-01	5.90E-04	5.90E-02
BP-25-SUR	Uranium-232	-1.71E-02	U	6.41E-02	1.30E-01	5.90E-04	5.90E-02
BP-26-SUR	Uranium-232	-1.64E-02	U	6.14E-02	1.25E-01	5.90E-04	5.90E-02
BP-27-SUR	Uranium-232	4.10E-02	U	6.59E-02	1.30E-01	5.90E-04	5.90E-02
BP-28-SUR	Uranium-232	4.73E-03	U	6.07E-02	1.15E-01	5.90E-04	5.90E-02
BP-29-SUR	Uranium-232	1.22E-02	U	5.75E-02	8.82E-02	5.90E-04	5.90E-02
BP-30-SUR	Uranium-232	-9.15E-03	U	5.77E-02	1.04E-01	5.90E-04	5.90E-02
BP-31-SUR	Uranium-232	1.37E-02	U	6.49E-02	9.95E-02	5.90E-04	5.90E-02
BP-32-SUR	Uranium-232	5.38E-03	U	6.91E-02	1.31E-01	5.90E-04	5.90E-02
BP-33-SUR	Uranium-232	-1.37E-02	U	4.98E-02	1.02E-01	5.90E-04	5.90E-02
BP-34-SUR	Uranium-232	-1.35E-02	U	3.81E-02	8.93E-02	5.90E-04	5.90E-02
BP-35-SUR	Uranium-232	7.16E-03	U	5.98E-02	9.18E-02	5.90E-04	5.90E-02
BP-36-SUR	Uranium-232	7.64E-04	U	6.86E-02	1.40E-01	5.90E-04	5.90E-02
BP-37-SUR	Uranium-232	-2.22E-02	U	5.56E-02	1.25E-01	5.90E-04	5.90E-02
BP-38-SUR	Uranium-232	-1.16E-02	U	5.81E-02	1.10E-01	5.90E-04	5.90E-02
BP-39-SUR	Uranium-232	-4.03E-03	U	6.03E-02	9.26E-02	5.90E-04	5.90E-02
BP-40-SUR	Uranium-232	4.74E-02	U	6.25E-02	9.46E-02	5.90E-04	5.90E-02
BP-41-SUR	Uranium-232	-3.26E-02	U	4.34E-02	1.36E-01	5.90E-04	5.90E-02
BP-42-SUR	Uranium-232	1.74E-04	U	6.23E-02	1.28E-01	5.90E-04	5.90E-02

Table 6.60 - Uranium-232 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Uranium-232	-8.53E-03	U	6.97E-02	1.57E-01	5.90E-04	5.90E-02
BP-44-SUR	Uranium-232	2.26E-02	U	6.35E-02	1.20E-01	5.90E-04	5.90E-02
BP-45-SUR	Uranium-232	4.54E-02	U	6.53E-02	1.13E-01	5.90E-04	5.90E-02
BP-46-SUR	Uranium-232	-1.86E-02	U	7.27E-02	1.78E-01	5.90E-04	5.90E-02
BP-47-SUR	Uranium-232	-2.35E-02	U	4.66E-02	1.47E-01	5.90E-04	5.90E-02
BP-48-SUR	Uranium-232	5.65E-02	U	7.56E-02	1.36E-01	5.90E-04	5.90E-02
BP-49-SUR	Uranium-232	-1.11E-02	U	8.33E-02	1.45E-01	5.90E-04	5.90E-02
BP-50-SUR	Uranium-232	1.32E-02	U	6.23E-02	9.55E-02	5.90E-04	5.90E-02
BP-51-SUR	Uranium-232	7.75E-04	U	6.96E-02	1.42E-01	5.90E-04	5.90E-02
BP-52-SUR	Uranium-232	1.20E-02	U	7.71E-02	1.74E-01	5.90E-04	5.90E-02
BP-53-SUR	Uranium-232	5.06E-03	U	6.50E-02	1.24E-01	5.90E-04	5.90E-02
BP-54-SUR	Uranium-232	-4.98E-03	U	7.46E-02	1.14E-01	5.90E-04	5.90E-02
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Uranium-232	1.32E-02	U	6.23E-02	9.56E-02	5.90E-04	5.90E-02
BP-4-SUB	Uranium-232	-9.72E-03	U	7.94E-02	1.79E-01	5.90E-04	5.90E-02
BP-5-SUB	Uranium-232	3.77E-02	U	6.00E-02	1.11E-01	5.90E-04	5.90E-02
BP-9-SUB	Uranium-232	3.34E-02	U	7.92E-02	1.37E-01	5.90E-04	5.90E-02
BP-12-SUB	Uranium-232	1.40E-02	U	6.63E-02	1.02E-01	5.90E-04	5.90E-02
BP-13-SUB	Uranium-232	-9.55E-03	U	6.02E-02	1.09E-01	5.90E-04	5.90E-02
BP-14-SUB	Uranium-232	-3.27E-02	U	8.04E-02	1.85E-01	5.90E-04	5.90E-02
BP-16-SUB	Uranium-232	1.44E-02	U	7.60E-02	1.23E-01	5.90E-04	5.90E-02
BP-20-SUB	Uranium-232	4.71E-02	U	6.41E-02	1.15E-01	5.90E-04	5.90E-02
BP-23-SUB	Uranium-232	5.15E-02	U	8.28E-02	1.63E-01	5.90E-04	5.90E-02
BP-29-SUB	Uranium-232	-3.53E-02	U	7.25E-02	1.75E-01	5.90E-04	5.90E-02
BP-34-SUB	Uranium-232	1.15E-02	U	6.03E-02	9.75E-02	5.90E-04	5.90E-02
BP-35-SUB	Uranium-232	9.26E-03	U	6.40E-02	1.11E-01	5.90E-04	5.90E-02
BP-38-SUB	Uranium-232	6.75E-04	U	6.06E-02	1.23E-01	5.90E-04	5.90E-02
BP-43-SUB	Uranium-232	4.24E-03	U	3.43E-02	9.21E-02	5.90E-04	5.90E-02
BP-45-SUB	Uranium-232	1.72E-02	U	8.15E-02	1.25E-01	5.90E-04	5.90E-02
BP-46-SUB	Uranium-232	4.67E-03	U	5.99E-02	1.14E-01	5.90E-04	5.90E-02
BP-48-SUB	Uranium-232	1.02E-02	U	6.55E-02	1.48E-01	5.90E-04	5.90E-02
BP-50-SUB	Uranium-232	6.74E-04	U	6.05E-02	1.23E-01	5.90E-04	5.90E-02
BP-51-SUB	Uranium-232	1.58E-02	U	7.47E-02	1.15E-01	5.90E-04	5.90E-02

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.61 - Uranium-233/234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	U-233/234	1.05E+00		1.94E-01	4.01E-02	1.84E-03	1.84E-01
LR-2-SUR	U-233/234	9.47E-01		1.67E-01	3.39E-02	1.84E-03	1.84E-01
LR-3-SUR	U-233/234	1.30E+00		2.86E-01	7.11E-02	1.84E-03	1.84E-01
LR-4-SUR	U-233/234	1.14E+00		2.00E-01	4.38E-02	1.84E-03	1.84E-01
LR-5-SUR	U-233/234	1.06E+00		1.77E-01	3.54E-02	1.84E-03	1.84E-01
LR-6-SUR	U-233/234	1.04E+00		1.82E-01	2.65E-02	1.84E-03	1.84E-01
LR-7-SUR	U-233/234	1.19E+00		2.63E-01	6.10E-02	1.84E-03	1.84E-01
LR-8-SUR	U-233/234	1.11E+00		2.01E-01	4.92E-02	1.84E-03	1.84E-01
LR-9-SUR	U-233/234	1.17E+00		2.15E-01	5.81E-02	1.84E-03	1.84E-01
LR-10-SUR	U-233/234	1.09E+00		2.40E-01	6.06E-02	1.84E-03	1.84E-01
LR-11-SUR	U-233/234	1.21E+00		2.69E-01	5.33E-02	1.84E-03	1.84E-01
LR-12-SUR	U-233/234	1.02E+00		2.10E-01	4.43E-02	1.84E-03	1.84E-01
LR-13-SUR	U-233/234	9.37E-01		1.65E-01	4.20E-02	1.84E-03	1.84E-01
LR-14-SUR	U-233/234	8.33E-01		1.79E-01	4.16E-02	1.84E-03	1.84E-01
LR-15-SUR	U-233/234	1.10E+00		2.35E-01	4.73E-02	1.84E-03	1.84E-01
LR-16-SUR	U-233/234	1.03E+00		1.75E-01	3.23E-02	1.84E-03	1.84E-01
LR-17-SUR	U-233/234	1.00E+00		2.17E-01	5.66E-02	1.84E-03	1.84E-01
LR-18-SUR	U-233/234	1.05E+00		2.30E-01	5.58E-02	1.84E-03	1.84E-01
LR-19-SUR	U-233/234	1.04E+00		2.10E-01	3.08E-02	1.84E-03	1.84E-01
LR-20-SUR	U-233/234	9.81E-01		1.98E-01	3.69E-02	1.84E-03	1.84E-01
LR-21-SUR	U-233/234	1.11E+00		2.19E-01	4.80E-02	1.84E-03	1.84E-01
LR-22-SUR	U-233/234	1.25E+00		2.05E-01	1.19E-02	1.84E-03	1.84E-01
LR-23-SUR	U-233/234	9.92E-01		1.70E-01	2.28E-02	1.84E-03	1.84E-01
LR-24-SUR	U-233/234	1.01E+00		1.95E-01	4.06E-02	1.84E-03	1.84E-01
LR-25-SUR	U-233/234	9.44E-01		1.81E-01	3.29E-02	1.84E-03	1.84E-01
LR-26-SUR	U-233/234	1.21E+00		2.34E-01	3.61E-02	1.84E-03	1.84E-01
LR-27-SUR	U-233/234	1.03E+00		1.96E-01	3.30E-02	1.84E-03	1.84E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	U-233/234	1.27E+00		2.41E-01	4.95E-02	1.84E-03	1.84E-01
LR-4-SUB	U-233/234	1.22E+00		2.01E-01	2.82E-02	1.84E-03	1.84E-01
LR-9-SUB	U-233/234	9.49E-01		1.85E-01	4.53E-02	1.84E-03	1.84E-01
LR-13-SUB	U-233/234	1.27E+00		2.33E-01	3.94E-02	1.84E-03	1.84E-01
LR-15-SUB	U-233/234	9.59E-01		1.85E-01	3.58E-02	1.84E-03	1.84E-01
LR-18-SUB	U-233/234	9.81E-01		1.91E-01	2.96E-02	1.84E-03	1.84E-01
LR-19-SUB	U-233/234	1.07E+00		2.20E-01	4.99E-02	1.84E-03	1.84E-01
LR-23-SUB	U-233/234	1.23E+00		2.31E-01	4.56E-02	1.84E-03	1.84E-01
LR-24-SUB	U-233/234	1.71E+00		2.68E-01	2.36E-02	1.84E-03	1.84E-01
LR-26-SUB	U-233/234	1.13E+00		2.13E-01	2.96E-02	1.84E-03	1.84E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	U-233/234	6.51E-01		1.47E-01	4.12E-02	1.84E-03	1.84E-01
RP-2-SUR	U-233/234	6.41E-01		1.44E-01	3.74E-02	1.84E-03	1.84E-01
RP-3-SUR	U-233/234	5.70E-01		1.30E-01	3.60E-02	1.84E-03	1.84E-01
RP-4-SUR	U-233/234	1.05E+00		2.14E-01	4.96E-02	1.84E-03	1.84E-01
RP-5-SUR	U-233/234	1.23E+00		2.52E-01	5.27E-02	1.84E-03	1.84E-01
RP-6-SUR	U-233/234	1.21E+00		2.34E-01	4.01E-02	1.84E-03	1.84E-01
RP-7-SUR	U-233/234	1.13E+00		1.94E-01	3.78E-02	1.84E-03	1.84E-01
RP-8-SUR	U-233/234	5.99E-01		1.14E-01	2.14E-02	1.84E-03	1.84E-01
RP-9-SUR	U-233/234	6.34E-01		1.36E-01	5.19E-02	1.84E-03	1.84E-01
RP-10-SUR	U-233/234	6.14E-01		1.34E-01	3.57E-02	1.84E-03	1.84E-01
RP-11-SUR	U-233/234	7.62E-01		1.40E-01	3.73E-02	1.84E-03	1.84E-01
RP-12-SUR	U-233/234	9.90E-01		2.23E-01	4.97E-02	1.84E-03	1.84E-01
RP-13-SUR	U-233/234	1.01E+00		1.83E-01	3.05E-02	1.84E-03	1.84E-01
RP-14-SUR	U-233/234	1.27E+00		2.54E-01	3.95E-02	1.84E-03	1.84E-01
RP-15-SUR	U-233/234	1.04E+00		2.03E-01	3.93E-02	1.84E-03	1.84E-01
RP-16-SUR	U-233/234	1.13E+00		1.90E-01	2.74E-02	1.84E-03	1.84E-01
RP-17-SUR	U-233/234	7.15E-01		1.59E-01	4.87E-02	1.84E-03	1.84E-01
RP-18-SUR	U-233/234	1.29E+00		2.54E-01	4.76E-02	1.84E-03	1.84E-01
RP-19-SUR	U-233/234	1.34E+00		2.44E-01	3.71E-02	1.84E-03	1.84E-01
RP-20-SUR	U-233/234	1.13E+00		2.12E-01	3.41E-02	1.84E-03	1.84E-01
RP-21-SUR	U-233/234	1.36E+00		2.49E-01	3.75E-02	1.84E-03	1.84E-01

Table 6.61 - Uranium-233/234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	U-233/234	1.26E+00		2.60E-01	6.54E-02	1.84E-03	1.84E-01
RP-23-SUR	U-233/234	6.97E-01		1.34E-01	3.00E-02	1.84E-03	1.84E-01
RP-24-SUR	U-233/234	6.30E-01		1.38E-01	5.22E-02	1.84E-03	1.84E-01
RP-25-SUR	U-233/234	6.85E-01		1.46E-01	4.67E-02	1.84E-03	1.84E-01
RP-26-SUR	U-233/234	1.02E+00		1.90E-01	3.39E-02	1.84E-03	1.84E-01
RP-27-SUR	U-233/234	8.06E-01		1.56E-01	3.62E-02	1.84E-03	1.84E-01
RP-28-SUR	U-233/234	1.06E+00		2.23E-01	4.56E-02	1.84E-03	1.84E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	U-233/234	1.30E+00		2.45E-01	3.54E-02	1.84E-03	1.84E-01
RP-5-SUB	U-233/234	1.34E+00		2.47E-01	3.25E-02	1.84E-03	1.84E-01
RP-7-SUB	U-233/234	1.40E+00		2.50E-01	4.09E-02	1.84E-03	1.84E-01
RP-12-SUB	U-233/234	1.21E+00		2.04E-01	2.69E-02	1.84E-03	1.84E-01
RP-13-SUB	U-233/234	8.38E-01		1.73E-01	4.30E-02	1.84E-03	1.84E-01
RP-17-SUB	U-233/234	8.07E-01		1.48E-01	3.29E-02	1.84E-03	1.84E-01
RP-18-SUB	U-233/234	9.24E-01		1.71E-01	2.48E-02	1.84E-03	1.84E-01
RP-19-SUB	U-233/234	8.70E-01		1.72E-01	4.01E-02	1.84E-03	1.84E-01
RP-20-SUB	U-233/234	7.00E-01		1.39E-01	3.08E-02	1.84E-03	1.84E-01
RP-28-SUB	U-233/234	8.97E-01		1.77E-01	3.18E-02	1.84E-03	1.84E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	U-233/234	1.52E+00		2.73E-01	4.64E-02	1.84E-03	1.84E-01
BP-2-SUR	U-233/234	1.32E+00		2.19E-01	3.57E-02	1.84E-03	1.84E-01
BP-3-SUR	U-233/234	1.30E+00		2.22E-01	2.49E-02	1.84E-03	1.84E-01
BP-4-SUR	U-233/234	1.16E+00		2.09E-01	2.88E-02	1.84E-03	1.84E-01
BP-5-SUR	U-233/234	1.54E+00		2.50E-01	3.44E-02	1.84E-03	1.84E-01
BP-6-SUR	U-233/234	1.47E+00		2.49E-01	3.90E-02	1.84E-03	1.84E-01
BP-7-SUR	U-233/234	1.45E+00		2.44E-01	2.86E-02	1.84E-03	1.84E-01
BP-8-SUR	U-233/234	1.55E+00		2.61E-01	3.38E-02	1.84E-03	1.84E-01
BP-9-SUR	U-233/234	1.41E+00		2.46E-01	3.38E-02	1.84E-03	1.84E-01
BP-10-SUR	U-233/234	1.41E+00		2.64E-01	5.79E-02	1.84E-03	1.84E-01
BP-11-SUR	U-233/234	1.45E+00		2.49E-01	3.51E-02	1.84E-03	1.84E-01
BP-12-SUR	U-233/234	1.32E+00		2.34E-01	4.25E-02	1.84E-03	1.84E-01
BP-13-SUR	U-233/234	1.37E+00		2.39E-01	4.34E-02	1.84E-03	1.84E-01
BP-14-SUR	U-233/234	1.18E+00		2.09E-01	4.18E-02	1.84E-03	1.84E-01
BP-15-SUR	U-233/234	1.33E+00		2.32E-01	3.61E-02	1.84E-03	1.84E-01
BP-16-SUR	U-233/234	1.13E+00		2.01E-01	1.82E-02	1.84E-03	1.84E-01
BP-17-SUR	U-233/234	1.22E+00		2.47E-01	7.03E-02	1.84E-03	1.84E-01
BP-18-SUR	U-233/234	1.30E+00		2.30E-01	3.67E-02	1.84E-03	1.84E-01
BP-19-SUR	U-233/234	1.53E+00		2.76E-01	3.34E-02	1.84E-03	1.84E-01
BP-20-SUR	U-233/234	1.16E+00		2.07E-01	5.48E-02	1.84E-03	1.84E-01
BP-21-SUR	U-233/234	1.39E+00		2.31E-01	3.07E-02	1.84E-03	1.84E-01
BP-22-SUR	U-233/234	1.20E+00		2.14E-01	3.83E-02	1.84E-03	1.84E-01
BP-23-SUR	U-233/234	1.27E+00		2.25E-01	3.10E-02	1.84E-03	1.84E-01
BP-24-SUR	U-233/234	1.24E+00		2.33E-01	4.35E-02	1.84E-03	1.84E-01
BP-25-SUR	U-233/234	1.32E+00		2.32E-01	4.66E-02	1.84E-03	1.84E-01
BP-26-SUR	U-233/234	1.11E+00		1.97E-01	4.06E-02	1.84E-03	1.84E-01
BP-27-SUR	U-233/234	1.15E+00		2.14E-01	4.30E-02	1.84E-03	1.84E-01
BP-28-SUR	U-233/234	1.07E+00		1.98E-01	2.80E-02	1.84E-03	1.84E-01
BP-29-SUR	U-233/234	1.17E+00		2.25E-01	6.73E-02	1.84E-03	1.84E-01
BP-30-SUR	U-233/234	1.28E+00		2.28E-01	5.76E-02	1.84E-03	1.84E-01
BP-31-SUR	U-233/234	1.06E+00		1.92E-01	3.01E-02	1.84E-03	1.84E-01
BP-32-SUR	U-233/234	1.11E+00		2.29E-01	5.78E-02	1.84E-03	1.84E-01
BP-33-SUR	U-233/234	1.17E+00		2.11E-01	2.01E-02	1.84E-03	1.84E-01
BP-34-SUR	U-233/234	1.32E+00		2.30E-01	3.91E-02	1.84E-03	1.84E-01
BP-35-SUR	U-233/234	1.39E+00		2.40E-01	3.31E-02	1.84E-03	1.84E-01
BP-36-SUR	U-233/234	1.26E+00		2.04E-01	2.05E-02	1.84E-03	1.84E-01
BP-37-SUR	U-233/234	1.28E+00		2.67E-01	5.98E-02	1.84E-03	1.84E-01
BP-38-SUR	U-233/234	9.75E-01		1.69E-01	3.25E-02	1.84E-03	1.84E-01
BP-39-SUR	U-233/234	8.52E-01		1.86E-01	3.87E-02	1.84E-03	1.84E-01
BP-40-SUR	U-233/234	1.07E+00		2.23E-01	3.99E-02	1.84E-03	1.84E-01
BP-41-SUR	U-233/234	1.19E+00		2.20E-01	4.80E-02	1.84E-03	1.84E-01
BP-42-SUR	U-233/234	1.11E+00		2.09E-01	3.97E-02	1.84E-03	1.84E-01

Table 6.61 - Uranium-233/234 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	U-233/234	1.13E+00		2.15E-01	3.47E-02	1.84E-03	1.84E-01
BP-44-SUR	U-233/234	1.24E+00		2.30E-01	3.61E-02	1.84E-03	1.84E-01
BP-45-SUR	U-233/234	1.31E+00		2.43E-01	3.35E-02	1.84E-03	1.84E-01
BP-46-SUR	U-233/234	1.32E+00		2.51E-01	5.17E-02	1.84E-03	1.84E-01
BP-47-SUR	U-233/234	1.37E+00		2.31E-01	2.75E-02	1.84E-03	1.84E-01
BP-48-SUR	U-233/234	1.34E+00		2.35E-01	3.49E-02	1.84E-03	1.84E-01
BP-49-SUR	U-233/234	1.05E+00		2.29E-01	7.14E-02	1.84E-03	1.84E-01
BP-50-SUR	U-233/234	1.26E+00		2.15E-01	2.51E-02	1.84E-03	1.84E-01
BP-51-SUR	U-233/234	1.01E+00		1.99E-01	4.49E-02	1.84E-03	1.84E-01
BP-52-SUR	U-233/234	8.84E-01		1.59E-01	2.80E-02	1.84E-03	1.84E-01
BP-53-SUR	U-233/234	1.23E+00		2.29E-01	4.53E-02	1.84E-03	1.84E-01
BP-54-SUR	U-233/234	8.54E-01		1.52E-01	3.78E-02	1.84E-03	1.84E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	U-233/234	1.05E+00		1.92E-01	5.62E-02	1.84E-03	1.84E-01
BP-4-SUB	U-233/234	1.12E+00		2.12E-01	4.61E-02	1.84E-03	1.84E-01
BP-5-SUB	U-233/234	9.58E-01		1.78E-01	4.02E-02	1.84E-03	1.84E-01
BP-9-SUB	U-233/234	1.33E+00		2.34E-01	3.44E-02	1.84E-03	1.84E-01
BP-12-SUB	U-233/234	1.35E+00		2.55E-01	5.84E-02	1.84E-03	1.84E-01
BP-13-SUB	U-233/234	1.16E+00		2.17E-01	5.26E-02	1.84E-03	1.84E-01
BP-14-SUB	U-233/234	1.01E+00		1.93E-01	6.47E-02	1.84E-03	1.84E-01
BP-16-SUB	U-233/234	1.37E+00		2.52E-01	5.16E-02	1.84E-03	1.84E-01
BP-20-SUB	U-233/234	9.72E-01		2.12E-01	6.90E-02	1.84E-03	1.84E-01
BP-23-SUB	U-233/234	1.08E+00		1.97E-01	2.03E-02	1.84E-03	1.84E-01
BP-29-SUB	U-233/234	9.43E-01		1.90E-01	5.07E-02	1.84E-03	1.84E-01
BP-34-SUB	U-233/234	1.57E+00		2.96E-01	4.54E-02	1.84E-03	1.84E-01
BP-35-SUB	U-233/234	1.30E+00		2.16E-01	2.51E-02	1.84E-03	1.84E-01
BP-38-SUB	U-233/234	1.02E+00		1.84E-01	3.92E-02	1.84E-03	1.84E-01
BP-43-SUB	U-233/234	1.16E+00		2.17E-01	3.54E-02	1.84E-03	1.84E-01
BP-45-SUB	U-233/234	1.24E+00		2.33E-01	3.83E-02	1.84E-03	1.84E-01
BP-46-SUB	U-233/234	1.34E+00		2.25E-01	2.72E-02	1.84E-03	1.84E-01
BP-48-SUB	U-233/234	9.90E-01		1.89E-01	4.40E-02	1.84E-03	1.84E-01
BP-50-SUB	U-233/234	1.12E+00		2.00E-01	2.81E-02	1.84E-03	1.84E-01
BP-51-SUB	U-233/234	1.55E+00		2.68E-01	3.94E-02	1.84E-03	1.84E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.62 - Uranium-235/236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	U-235/236	7.48E-02		3.63E-02	2.49E-02	1.81E-03	1.81E-01
LR-2-SUR	U-235/236	7.51E-02		3.43E-02	3.94E-02	1.81E-03	1.81E-01
LR-3-SUR	U-235/236	2.83E-02	U	3.23E-02	3.85E-02	1.81E-03	1.81E-01
LR-4-SUR	U-235/236	8.69E-02		3.64E-02	2.09E-02	1.81E-03	1.81E-01
LR-5-SUR	U-235/236	7.33E-02		2.91E-02	2.60E-02	1.81E-03	1.81E-01
LR-6-SUR	U-235/236	8.42E-02		3.46E-02	1.94E-02	1.81E-03	1.81E-01
LR-7-SUR	U-235/236	7.19E-02		5.11E-02	3.67E-02	1.81E-03	1.81E-01
LR-8-SUR	U-235/236	6.64E-02		3.31E-02	2.34E-02	1.81E-03	1.81E-01
LR-9-SUR	U-235/236	4.35E-02		2.78E-02	2.61E-02	1.81E-03	1.81E-01
LR-10-SUR	U-235/236	6.63E-02		4.72E-02	3.53E-02	1.81E-03	1.81E-01
LR-11-SUR	U-235/236	3.79E-02	U	3.76E-02	3.86E-02	1.81E-03	1.81E-01
LR-12-SUR	U-235/236	4.38E-02		3.36E-02	3.49E-02	1.81E-03	1.81E-01
LR-13-SUR	U-235/236	2.99E-02		2.23E-02	3.76E-02	1.81E-03	1.81E-01
LR-14-SUR	U-235/236	3.74E-02		3.05E-02	2.55E-02	1.81E-03	1.81E-01
LR-15-SUR	U-235/236	3.82E-02		3.40E-02	3.12E-02	1.81E-03	1.81E-01
LR-16-SUR	U-235/236	4.13E-02		2.17E-02	1.65E-02	1.81E-03	1.81E-01
LR-17-SUR	U-235/236	8.26E-02		5.05E-02	3.06E-02	1.81E-03	1.81E-01
LR-18-SUR	U-235/236	7.88E-02		5.04E-02	3.22E-02	1.81E-03	1.81E-01
LR-19-SUR	U-235/236	5.42E-02		3.64E-02	2.53E-02	1.81E-03	1.81E-01
LR-20-SUR	U-235/236	3.18E-02		2.81E-02	3.79E-02	1.81E-03	1.81E-01
LR-21-SUR	U-235/236	3.41E-02		2.77E-02	2.38E-02	1.81E-03	1.81E-01
LR-22-SUR	U-235/236	7.35E-02		2.98E-02	2.74E-02	1.81E-03	1.81E-01
LR-23-SUR	U-235/236	6.59E-02		2.93E-02	2.97E-02	1.81E-03	1.81E-01
LR-24-SUR	U-235/236	6.52E-02		3.63E-02	2.89E-02	1.81E-03	1.81E-01
LR-25-SUR	U-235/236	4.28E-02		2.86E-02	2.97E-02	1.81E-03	1.81E-01
LR-26-SUR	U-235/236	4.23E-02		3.18E-02	3.71E-02	1.81E-03	1.81E-01
LR-27-SUR	U-235/236	6.15E-02		3.67E-02	3.71E-02	1.81E-03	1.81E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	U-235/236	8.31E-02		4.53E-02	2.67E-02	1.81E-03	1.81E-01
LR-4-SUB	U-235/236	4.14E-02		2.28E-02	2.86E-02	1.81E-03	1.81E-01
LR-9-SUB	U-235/236	5.15E-02		3.28E-02	2.32E-02	1.81E-03	1.81E-01
LR-13-SUB	U-235/236	6.84E-02		3.77E-02	2.26E-02	1.81E-03	1.81E-01
LR-15-SUB	U-235/236	6.19E-02		3.55E-02	2.23E-02	1.81E-03	1.81E-01
LR-18-SUB	U-235/236	3.33E-02		2.64E-02	2.36E-02	1.81E-03	1.81E-01
LR-19-SUB	U-235/236	4.14E-02		3.37E-02	3.10E-02	1.81E-03	1.81E-01
LR-23-SUB	U-235/236	1.20E-01		5.40E-02	3.71E-02	1.81E-03	1.81E-01
LR-24-SUB	U-235/236	7.98E-02		3.04E-02	2.60E-02	1.81E-03	1.81E-01
LR-26-SUB	U-235/236	5.77E-02		3.52E-02	2.36E-02	1.81E-03	1.81E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	U-235/236	7.65E-02		4.32E-02	2.47E-02	1.81E-03	1.81E-01
RP-2-SUR	U-235/236	2.30E-02	U	2.28E-02	2.42E-02	1.81E-03	1.81E-01
RP-3-SUR	U-235/236	4.34E-02		3.18E-02	3.61E-02	1.81E-03	1.81E-01
RP-4-SUR	U-235/236	6.24E-02		3.99E-02	2.62E-02	1.81E-03	1.81E-01
RP-5-SUR	U-235/236	9.20E-02		5.20E-02	2.97E-02	1.81E-03	1.81E-01
RP-6-SUR	U-235/236	6.29E-02		3.84E-02	2.40E-02	1.81E-03	1.81E-01
RP-7-SUR	U-235/236	6.33E-02		2.95E-02	2.82E-02	1.81E-03	1.81E-01
RP-8-SUR	U-235/236	2.99E-02		1.90E-02	1.61E-02	1.81E-03	1.81E-01
RP-9-SUR	U-235/236	2.40E-02		2.22E-02	2.88E-02	1.81E-03	1.81E-01
RP-10-SUR	U-235/236	3.00E-02		2.44E-02	2.10E-02	1.81E-03	1.81E-01
RP-11-SUR	U-235/236	4.59E-02		2.63E-02	3.36E-02	1.81E-03	1.81E-01
RP-12-SUR	U-235/236	5.90E-02		4.47E-02	3.54E-02	1.81E-03	1.81E-01
RP-13-SUR	U-235/236	6.88E-02		3.26E-02	1.95E-02	1.81E-03	1.81E-01
RP-14-SUR	U-235/236	5.36E-02		3.80E-02	2.81E-02	1.81E-03	1.81E-01
RP-15-SUR	U-235/236	5.28E-02		3.41E-02	3.06E-02	1.81E-03	1.81E-01
RP-16-SUR	U-235/236	6.72E-02		2.81E-02	1.45E-02	1.81E-03	1.81E-01
RP-17-SUR	U-235/236	4.29E-02		3.25E-02	2.57E-02	1.81E-03	1.81E-01
RP-18-SUR	U-235/236	4.48E-02		3.39E-02	2.69E-02	1.81E-03	1.81E-01
RP-19-SUR	U-235/236	9.95E-02		4.51E-02	2.13E-02	1.81E-03	1.81E-01
RP-20-SUR	U-235/236	7.06E-02		3.73E-02	2.12E-02	1.81E-03	1.81E-01
RP-21-SUR	U-235/236	5.56E-02		3.49E-02	3.71E-02	1.81E-03	1.81E-01

Table 6.62 - Uranium-235/236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	U-235/236	1.03E-01		5.62E-02	3.30E-02	1.81E-03	1.81E-01
RP-23-SUR	U-235/236	3.56E-02		2.27E-02	1.92E-02	1.81E-03	1.81E-01
RP-24-SUR	U-235/236	6.55E-02		3.79E-02	3.70E-02	1.81E-03	1.81E-01
RP-25-SUR	U-235/236	5.07E-02		3.35E-02	3.73E-02	1.81E-03	1.81E-01
RP-26-SUR	U-235/236	4.67E-02		2.85E-02	1.91E-02	1.81E-03	1.81E-01
RP-27-SUR	U-235/236	2.04E-02	U	2.05E-02	3.82E-02	1.81E-03	1.81E-01
RP-28-SUR	U-235/236	1.05E-01		5.54E-02	3.14E-02	1.81E-03	1.81E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	U-235/236	6.49E-02		3.91E-02	3.98E-02	1.81E-03	1.81E-01
RP-5-SUB	U-235/236	4.96E-02		3.17E-02	2.23E-02	1.81E-03	1.81E-01
RP-7-SUB	U-235/236	6.10E-02		3.32E-02	2.35E-02	1.81E-03	1.81E-01
RP-12-SUB	U-235/236	7.98E-02		3.32E-02	3.13E-02	1.81E-03	1.81E-01
RP-13-SUB	U-235/236	3.84E-02		2.91E-02	2.47E-02	1.81E-03	1.81E-01
RP-17-SUB	U-235/236	7.45E-02		3.30E-02	2.05E-02	1.81E-03	1.81E-01
RP-18-SUB	U-235/236	5.79E-02		3.20E-02	3.23E-02	1.81E-03	1.81E-01
RP-19-SUB	U-235/236	3.15E-02		2.51E-02	2.42E-02	1.81E-03	1.81E-01
RP-20-SUB	U-235/236	5.31E-02		3.17E-02	3.44E-02	1.81E-03	1.81E-01
RP-28-SUB	U-235/236	9.88E-02		4.66E-02	2.48E-02	1.81E-03	1.81E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	U-235/236	1.05E-01		4.86E-02	2.71E-02	1.81E-03	1.81E-01
BP-2-SUR	U-235/236	6.39E-02		3.00E-02	3.24E-02	1.81E-03	1.81E-01
BP-3-SUR	U-235/236	7.01E-02		3.31E-02	1.90E-02	1.81E-03	1.81E-01
BP-4-SUR	U-235/236	6.62E-02		3.43E-02	2.20E-02	1.81E-03	1.81E-01
BP-5-SUR	U-235/236	6.86E-02		3.06E-02	3.12E-02	1.81E-03	1.81E-01
BP-6-SUR	U-235/236	7.71E-02		3.62E-02	3.09E-02	1.81E-03	1.81E-01
BP-7-SUR	U-235/236	9.48E-02		3.96E-02	3.18E-02	1.81E-03	1.81E-01
BP-8-SUR	U-235/236	6.89E-02		3.34E-02	1.98E-02	1.81E-03	1.81E-01
BP-9-SUR	U-235/236	1.01E-01		4.48E-02	3.85E-02	1.81E-03	1.81E-01
BP-10-SUR	U-235/236	7.95E-02		4.46E-02	3.12E-02	1.81E-03	1.81E-01
BP-11-SUR	U-235/236	3.38E-02		2.52E-02	3.60E-02	1.81E-03	1.81E-01
BP-12-SUR	U-235/236	4.88E-02		2.97E-02	2.29E-02	1.81E-03	1.81E-01
BP-13-SUR	U-235/236	4.71E-02		2.96E-02	3.43E-02	1.81E-03	1.81E-01
BP-14-SUR	U-235/236	4.78E-02		2.79E-02	2.39E-02	1.81E-03	1.81E-01
BP-15-SUR	U-235/236	9.82E-02		4.18E-02	2.11E-02	1.81E-03	1.81E-01
BP-16-SUR	U-235/236	8.59E-02		3.82E-02	2.37E-02	1.81E-03	1.81E-01
BP-17-SUR	U-235/236	5.72E-02		4.11E-02	3.79E-02	1.81E-03	1.81E-01
BP-18-SUR	U-235/236	1.04E-01		4.49E-02	3.77E-02	1.81E-03	1.81E-01
BP-19-SUR	U-235/236	6.36E-02		3.76E-02	2.60E-02	1.81E-03	1.81E-01
BP-20-SUR	U-235/236	4.51E-02		2.75E-02	2.46E-02	1.81E-03	1.81E-01
BP-21-SUR	U-235/236	8.59E-02		3.58E-02	3.39E-02	1.81E-03	1.81E-01
BP-22-SUR	U-235/236	5.74E-02		3.22E-02	3.07E-02	1.81E-03	1.81E-01
BP-23-SUR	U-235/236	8.79E-02		4.11E-02	3.46E-02	1.81E-03	1.81E-01
BP-24-SUR	U-235/236	7.64E-02		4.16E-02	2.62E-02	1.81E-03	1.81E-01
BP-25-SUR	U-235/236	6.48E-02		3.41E-02	2.59E-02	1.81E-03	1.81E-01
BP-26-SUR	U-235/236	5.04E-02		2.83E-02	2.32E-02	1.81E-03	1.81E-01
BP-27-SUR	U-235/236	6.35E-02		3.61E-02	2.39E-02	1.81E-03	1.81E-01
BP-28-SUR	U-235/236	7.72E-02		3.84E-02	2.18E-02	1.81E-03	1.81E-01
BP-29-SUR	U-235/236	6.88E-02		4.03E-02	3.44E-02	1.81E-03	1.81E-01
BP-30-SUR	U-235/236	7.67E-02		3.74E-02	2.59E-02	1.81E-03	1.81E-01
BP-31-SUR	U-235/236	6.42E-02		3.45E-02	3.36E-02	1.81E-03	1.81E-01
BP-32-SUR	U-235/236	4.35E-02		3.54E-02	3.48E-02	1.81E-03	1.81E-01
BP-33-SUR	U-235/236	7.08E-02		3.60E-02	2.61E-02	1.81E-03	1.81E-01
BP-34-SUR	U-235/236	5.20E-02		2.94E-02	2.43E-02	1.81E-03	1.81E-01
BP-35-SUR	U-235/236	6.94E-02		3.44E-02	2.43E-02	1.81E-03	1.81E-01
BP-36-SUR	U-235/236	6.57E-02		2.78E-02	2.68E-02	1.81E-03	1.81E-01
BP-37-SUR	U-235/236	9.09E-02		5.64E-02	3.76E-02	1.81E-03	1.81E-01
BP-38-SUR	U-235/236	5.83E-02		2.73E-02	1.81E-02	1.81E-03	1.81E-01
BP-39-SUR	U-235/236	9.21E-02		5.20E-02	3.12E-02	1.81E-03	1.81E-01
BP-40-SUR	U-235/236	8.77E-02		5.13E-02	3.21E-02	1.81E-03	1.81E-01
BP-41-SUR	U-235/236	6.96E-02		3.79E-02	2.98E-02	1.81E-03	1.81E-01
BP-42-SUR	U-235/236	8.85E-02		4.37E-02	3.25E-02	1.81E-03	1.81E-01

Table 6.62 - Uranium-235/236 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	U-235/236	7.95E-02		4.35E-02	3.90E-02	1.81E-03	1.81E-01
BP-44-SUR	U-235/236	9.29E-02		4.51E-02	2.27E-02	1.81E-03	1.81E-01
BP-45-SUR	U-235/236	6.75E-02		3.98E-02	3.85E-02	1.81E-03	1.81E-01
BP-46-SUR	U-235/236	4.79E-02		3.40E-02	2.87E-02	1.81E-03	1.81E-01
BP-47-SUR	U-235/236	8.01E-02		3.42E-02	2.01E-02	1.81E-03	1.81E-01
BP-48-SUR	U-235/236	5.55E-02		3.13E-02	2.56E-02	1.81E-03	1.81E-01
BP-49-SUR	U-235/236	6.62E-02		4.70E-02	3.97E-02	1.81E-03	1.81E-01
BP-50-SUR	U-235/236	4.68E-02		2.68E-02	2.80E-02	1.81E-03	1.81E-01
BP-51-SUR	U-235/236	7.33E-02		4.13E-02	2.71E-02	1.81E-03	1.81E-01
BP-52-SUR	U-235/236	5.14E-02		2.87E-02	3.65E-02	1.81E-03	1.81E-01
BP-53-SUR	U-235/236	4.72E-02		3.16E-02	2.52E-02	1.81E-03	1.81E-01
BP-54-SUR	U-235/236	3.89E-02		2.30E-02	2.93E-02	1.81E-03	1.81E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	U-235/236	6.94E-02		3.60E-02	3.93E-02	1.81E-03	1.81E-01
BP-4-SUB	U-235/236	6.58E-02		3.76E-02	2.69E-02	1.81E-03	1.81E-01
BP-5-SUB	U-235/236	4.85E-02		2.87E-02	2.50E-02	1.81E-03	1.81E-01
BP-9-SUB	U-235/236	4.46E-02		2.96E-02	3.83E-02	1.81E-03	1.81E-01
BP-12-SUB	U-235/236	7.44E-02		4.32E-02	3.14E-02	1.81E-03	1.81E-01
BP-13-SUB	U-235/236	6.52E-02		3.67E-02	3.01E-02	1.81E-03	1.81E-01
BP-14-SUB	U-235/236	5.82E-02		3.40E-02	2.91E-02	1.81E-03	1.81E-01
BP-16-SUB	U-235/236	9.53E-02		4.64E-02	3.20E-02	1.81E-03	1.81E-01
BP-20-SUB	U-235/236	6.26E-02		4.44E-02	4.04E-02	1.81E-03	1.81E-01
BP-23-SUB	U-235/236	6.61E-02		3.48E-02	2.64E-02	1.81E-03	1.81E-01
BP-29-SUB	U-235/236	7.47E-02		4.21E-02	2.96E-02	1.81E-03	1.81E-01
BP-34-SUB	U-235/236	6.71E-02		4.28E-02	3.46E-02	1.81E-03	1.81E-01
BP-35-SUB	U-235/236	8.38E-02		3.47E-02	3.26E-02	1.81E-03	1.81E-01
BP-38-SUB	U-235/236	9.53E-02		4.07E-02	3.10E-02	1.81E-03	1.81E-01
BP-43-SUB	U-235/236	9.20E-02		4.46E-02	2.68E-02	1.81E-03	1.81E-01
BP-45-SUB	U-235/236	6.08E-02		3.71E-02	2.90E-02	1.81E-03	1.81E-01
BP-46-SUB	U-235/236	3.77E-02		2.39E-02	3.03E-02	1.81E-03	1.81E-01
BP-48-SUB	U-235/236	6.33E-02		3.57E-02	2.56E-02	1.81E-03	1.81E-01
BP-50-SUB	U-235/236	6.19E-02		3.36E-02	3.66E-02	1.81E-03	1.81E-01
BP-51-SUB	U-235/236	5.70E-02		3.35E-02	3.93E-02	1.81E-03	1.81E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.63 - Uranium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Uranium-238	1.18E+00		2.13E-01	3.39E-02	1.47E-03	1.47E-01
LR-2-SUR	Uranium-238	1.02E+00		1.78E-01	3.37E-02	1.47E-03	1.47E-01
LR-3-SUR	Uranium-238	1.19E+00		2.66E-01	4.61E-02	1.47E-03	1.47E-01
LR-4-SUR	Uranium-238	1.13E+00		1.98E-01	1.60E-02	1.47E-03	1.47E-01
LR-5-SUR	Uranium-238	1.11E+00		1.84E-01	2.63E-02	1.47E-03	1.47E-01
LR-6-SUR	Uranium-238	1.05E+00		1.84E-01	3.12E-02	1.47E-03	1.47E-01
LR-7-SUR	Uranium-238	1.30E+00		2.80E-01	4.39E-02	1.47E-03	1.47E-01
LR-8-SUR	Uranium-238	1.18E+00		2.10E-01	3.19E-02	1.47E-03	1.47E-01
LR-9-SUR	Uranium-238	1.11E+00		2.04E-01	2.00E-02	1.47E-03	1.47E-01
LR-10-SUR	Uranium-238	1.23E+00		2.62E-01	4.32E-02	1.47E-03	1.47E-01
LR-11-SUR	Uranium-238	1.16E+00		2.61E-01	5.32E-02	1.47E-03	1.47E-01
LR-12-SUR	Uranium-238	1.06E+00		2.16E-01	1.96E-02	1.47E-03	1.47E-01
LR-13-SUR	Uranium-238	9.76E-01		1.70E-01	2.88E-02	1.47E-03	1.47E-01
LR-14-SUR	Uranium-238	7.69E-01		1.68E-01	3.05E-02	1.47E-03	1.47E-01
LR-15-SUR	Uranium-238	1.05E+00		2.26E-01	2.39E-02	1.47E-03	1.47E-01
LR-16-SUR	Uranium-238	1.06E+00		1.80E-01	1.92E-02	1.47E-03	1.47E-01
LR-17-SUR	Uranium-238	9.14E-01		2.02E-01	3.67E-02	1.47E-03	1.47E-01
LR-18-SUR	Uranium-238	1.14E+00		2.44E-01	4.87E-02	1.47E-03	1.47E-01
LR-19-SUR	Uranium-238	8.56E-01		1.80E-01	3.45E-02	1.47E-03	1.47E-01
LR-20-SUR	Uranium-238	1.04E+00		2.06E-01	3.69E-02	1.47E-03	1.47E-01
LR-21-SUR	Uranium-238	1.11E+00		2.19E-01	2.90E-02	1.47E-03	1.47E-01
LR-22-SUR	Uranium-238	1.22E+00		2.01E-01	2.10E-02	1.47E-03	1.47E-01
LR-23-SUR	Uranium-238	1.06E+00		1.80E-01	2.28E-02	1.47E-03	1.47E-01
LR-24-SUR	Uranium-238	1.10E+00		2.10E-01	3.31E-02	1.47E-03	1.47E-01
LR-25-SUR	Uranium-238	1.00E+00		1.90E-01	1.43E-02	1.47E-03	1.47E-01
LR-26-SUR	Uranium-238	1.05E+00		2.08E-01	2.84E-02	1.47E-03	1.47E-01
LR-27-SUR	Uranium-238	1.12E+00		2.10E-01	1.74E-02	1.47E-03	1.47E-01
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Uranium-238	1.18E+00		2.26E-01	3.34E-02	1.47E-03	1.47E-01
LR-4-SUB	Uranium-238	1.31E+00		2.14E-01	2.19E-02	1.47E-03	1.47E-01
LR-9-SUB	Uranium-238	8.10E-01		1.63E-01	1.77E-02	1.47E-03	1.47E-01
LR-13-SUB	Uranium-238	1.20E+00		2.21E-01	2.47E-02	1.47E-03	1.47E-01
LR-15-SUB	Uranium-238	1.13E+00		2.10E-01	4.12E-02	1.47E-03	1.47E-01
LR-18-SUB	Uranium-238	8.84E-01		1.75E-01	1.81E-02	1.47E-03	1.47E-01
LR-19-SUB	Uranium-238	1.18E+00		2.37E-01	4.51E-02	1.47E-03	1.47E-01
LR-23-SUB	Uranium-238	1.18E+00		2.24E-01	3.61E-02	1.47E-03	1.47E-01
LR-24-SUB	Uranium-238	1.65E+00		2.60E-01	1.12E-02	1.47E-03	1.47E-01
LR-26-SUB	Uranium-238	1.26E+00		2.33E-01	2.95E-02	1.47E-03	1.47E-01
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Uranium-238	7.76E-01		1.66E-01	3.00E-02	1.47E-03	1.47E-01
RP-2-SUR	Uranium-238	6.40E-01		1.43E-01	1.85E-02	1.47E-03	1.47E-01
RP-3-SUR	Uranium-238	5.48E-01		1.26E-01	3.19E-02	1.47E-03	1.47E-01
RP-4-SUR	Uranium-238	1.17E+00		2.32E-01	3.19E-02	1.47E-03	1.47E-01
RP-5-SUR	Uranium-238	1.14E+00		2.36E-01	4.59E-02	1.47E-03	1.47E-01
RP-6-SUR	Uranium-238	1.23E+00		2.37E-01	2.92E-02	1.47E-03	1.47E-01
RP-7-SUR	Uranium-238	1.23E+00		2.09E-01	2.82E-02	1.47E-03	1.47E-01
RP-8-SUR	Uranium-238	6.32E-01		1.19E-01	2.51E-02	1.47E-03	1.47E-01
RP-9-SUR	Uranium-238	6.37E-01		1.37E-01	5.63E-02	1.47E-03	1.47E-01
RP-10-SUR	Uranium-238	5.52E-01		1.23E-01	2.55E-02	1.47E-03	1.47E-01
RP-11-SUR	Uranium-238	6.83E-01		1.27E-01	2.58E-02	1.47E-03	1.47E-01
RP-12-SUR	Uranium-238	1.07E+00		2.36E-01	2.71E-02	1.47E-03	1.47E-01
RP-13-SUR	Uranium-238	1.19E+00		2.09E-01	2.59E-02	1.47E-03	1.47E-01
RP-14-SUR	Uranium-238	1.14E+00		2.32E-01	3.94E-02	1.47E-03	1.47E-01
RP-15-SUR	Uranium-238	1.09E+00		2.11E-01	1.70E-02	1.47E-03	1.47E-01
RP-16-SUR	Uranium-238	1.22E+00		2.02E-01	1.66E-02	1.47E-03	1.47E-01
RP-17-SUR	Uranium-238	5.77E-01		1.35E-01	3.13E-02	1.47E-03	1.47E-01
RP-18-SUR	Uranium-238	1.28E+00		2.52E-01	4.15E-02	1.47E-03	1.47E-01
RP-19-SUR	Uranium-238	1.16E+00		2.16E-01	2.67E-02	1.47E-03	1.47E-01
RP-20-SUR	Uranium-238	1.09E+00		2.05E-01	1.62E-02	1.47E-03	1.47E-01
RP-21-SUR	Uranium-238	1.32E+00		2.43E-01	3.30E-02	1.47E-03	1.47E-01

Table 6.63 - Uranium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Uranium-238	1.41E+00		2.83E-01	4.13E-02	1.47E-03	1.47E-01
RP-23-SUR	Uranium-238	6.14E-01		1.21E-01	3.00E-02	1.47E-03	1.47E-01
RP-24-SUR	Uranium-238	6.56E-01		1.41E-01	3.29E-02	1.47E-03	1.47E-01
RP-25-SUR	Uranium-238	6.96E-01		1.46E-01	1.75E-02	1.47E-03	1.47E-01
RP-26-SUR	Uranium-238	1.09E+00		2.00E-01	2.39E-02	1.47E-03	1.47E-01
RP-27-SUR	Uranium-238	7.88E-01		1.53E-01	3.83E-02	1.47E-03	1.47E-01
RP-28-SUR	Uranium-238	1.25E+00		2.53E-01	2.40E-02	1.47E-03	1.47E-01
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Uranium-238	1.12E+00		2.17E-01	3.05E-02	1.47E-03	1.47E-01
RP-5-SUB	Uranium-238	1.43E+00		2.60E-01	3.24E-02	1.47E-03	1.47E-01
RP-7-SUB	Uranium-238	1.49E+00		2.62E-01	3.12E-02	1.47E-03	1.47E-01
RP-12-SUB	Uranium-238	1.23E+00		2.06E-01	2.67E-02	1.47E-03	1.47E-01
RP-13-SUB	Uranium-238	9.16E-01		1.85E-01	3.09E-02	1.47E-03	1.47E-01
RP-17-SUB	Uranium-238	8.21E-01		1.49E-01	1.57E-02	1.47E-03	1.47E-01
RP-18-SUB	Uranium-238	7.64E-01		1.46E-01	1.48E-02	1.47E-03	1.47E-01
RP-19-SUB	Uranium-238	7.80E-01		1.57E-01	1.85E-02	1.47E-03	1.47E-01
RP-20-SUB	Uranium-238	7.06E-01		1.40E-01	1.58E-02	1.47E-03	1.47E-01
RP-28-SUB	Uranium-238	8.15E-01		1.64E-01	1.90E-02	1.47E-03	1.47E-01
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Uranium-238	1.42E+00		2.57E-01	2.08E-02	1.47E-03	1.47E-01
BP-2-SUR	Uranium-238	1.36E+00		2.25E-01	1.40E-02	1.47E-03	1.47E-01
BP-3-SUR	Uranium-238	1.43E+00		2.42E-01	1.45E-02	1.47E-03	1.47E-01
BP-4-SUR	Uranium-238	1.13E+00		2.03E-01	2.88E-02	1.47E-03	1.47E-01
BP-5-SUR	Uranium-238	1.46E+00		2.37E-01	1.35E-02	1.47E-03	1.47E-01
BP-6-SUR	Uranium-238	1.52E+00		2.58E-01	3.06E-02	1.47E-03	1.47E-01
BP-7-SUR	Uranium-238	1.43E+00		2.41E-01	2.44E-02	1.47E-03	1.47E-01
BP-8-SUR	Uranium-238	1.41E+00		2.41E-01	3.03E-02	1.47E-03	1.47E-01
BP-9-SUR	Uranium-238	1.45E+00		2.52E-01	4.14E-02	1.47E-03	1.47E-01
BP-10-SUR	Uranium-238	1.38E+00		2.58E-01	4.08E-02	1.47E-03	1.47E-01
BP-11-SUR	Uranium-238	1.29E+00		2.26E-01	2.76E-02	1.47E-03	1.47E-01
BP-12-SUR	Uranium-238	1.21E+00		2.17E-01	1.75E-02	1.47E-03	1.47E-01
BP-13-SUR	Uranium-238	1.49E+00		2.57E-01	3.40E-02	1.47E-03	1.47E-01
BP-14-SUR	Uranium-238	1.13E+00		2.02E-01	3.25E-02	1.47E-03	1.47E-01
BP-15-SUR	Uranium-238	1.24E+00		2.18E-01	3.24E-02	1.47E-03	1.47E-01
BP-16-SUR	Uranium-238	1.26E+00		2.19E-01	3.22E-02	1.47E-03	1.47E-01
BP-17-SUR	Uranium-238	1.16E+00		2.36E-01	4.96E-02	1.47E-03	1.47E-01
BP-18-SUR	Uranium-238	1.48E+00		2.56E-01	2.89E-02	1.47E-03	1.47E-01
BP-19-SUR	Uranium-238	1.36E+00		2.49E-01	1.99E-02	1.47E-03	1.47E-01
BP-20-SUR	Uranium-238	1.25E+00		2.20E-01	1.89E-02	1.47E-03	1.47E-01
BP-21-SUR	Uranium-238	1.23E+00		2.07E-01	2.60E-02	1.47E-03	1.47E-01
BP-22-SUR	Uranium-238	1.10E+00		1.98E-01	3.02E-02	1.47E-03	1.47E-01
BP-23-SUR	Uranium-238	1.29E+00		2.29E-01	2.65E-02	1.47E-03	1.47E-01
BP-24-SUR	Uranium-238	1.19E+00		2.24E-01	3.91E-02	1.47E-03	1.47E-01
BP-25-SUR	Uranium-238	1.32E+00		2.32E-01	4.16E-02	1.47E-03	1.47E-01
BP-26-SUR	Uranium-238	1.21E+00		2.12E-01	3.16E-02	1.47E-03	1.47E-01
BP-27-SUR	Uranium-238	1.24E+00		2.27E-01	1.83E-02	1.47E-03	1.47E-01
BP-28-SUR	Uranium-238	1.13E+00		2.06E-01	2.79E-02	1.47E-03	1.47E-01
BP-29-SUR	Uranium-238	1.34E+00		2.50E-01	4.68E-02	1.47E-03	1.47E-01
BP-30-SUR	Uranium-238	1.23E+00		2.20E-01	1.98E-02	1.47E-03	1.47E-01
BP-31-SUR	Uranium-238	1.14E+00		2.04E-01	2.58E-02	1.47E-03	1.47E-01
BP-32-SUR	Uranium-238	1.28E+00		2.56E-01	5.20E-02	1.47E-03	1.47E-01
BP-33-SUR	Uranium-238	1.24E+00		2.22E-01	3.55E-02	1.47E-03	1.47E-01
BP-34-SUR	Uranium-238	1.26E+00		2.20E-01	1.86E-02	1.47E-03	1.47E-01
BP-35-SUR	Uranium-238	1.34E+00		2.32E-01	3.30E-02	1.47E-03	1.47E-01
BP-36-SUR	Uranium-238	1.22E+00		1.98E-01	1.15E-02	1.47E-03	1.47E-01
BP-37-SUR	Uranium-238	1.20E+00		2.53E-01	2.88E-02	1.47E-03	1.47E-01
BP-38-SUR	Uranium-238	9.72E-01		1.68E-01	1.38E-02	1.47E-03	1.47E-01
BP-39-SUR	Uranium-238	1.15E+00		2.33E-01	2.39E-02	1.47E-03	1.47E-01
BP-40-SUR	Uranium-238	1.00E+00		2.12E-01	3.98E-02	1.47E-03	1.47E-01
BP-41-SUR	Uranium-238	1.21E+00		2.23E-01	2.28E-02	1.47E-03	1.47E-01
BP-42-SUR	Uranium-238	1.06E+00		2.01E-01	3.16E-02	1.47E-03	1.47E-01

Table 6.63 - Uranium-238 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Uranium-238	1.18E+00		2.23E-01	2.99E-02	1.47E-03	1.47E-01
BP-44-SUR	Uranium-238	1.18E+00		2.20E-01	3.26E-02	1.47E-03	1.47E-01
BP-45-SUR	Uranium-238	1.23E+00		2.30E-01	4.05E-02	1.47E-03	1.47E-01
BP-46-SUR	Uranium-238	1.35E+00		2.55E-01	3.68E-02	1.47E-03	1.47E-01
BP-47-SUR	Uranium-238	1.32E+00		2.23E-01	1.54E-02	1.47E-03	1.47E-01
BP-48-SUR	Uranium-238	1.32E+00		2.32E-01	3.49E-02	1.47E-03	1.47E-01
BP-49-SUR	Uranium-238	1.19E+00		2.50E-01	3.04E-02	1.47E-03	1.47E-01
BP-50-SUR	Uranium-238	1.25E+00		2.13E-01	2.15E-02	1.47E-03	1.47E-01
BP-51-SUR	Uranium-238	9.43E-01		1.88E-01	4.04E-02	1.47E-03	1.47E-01
BP-52-SUR	Uranium-238	1.01E+00		1.77E-01	3.30E-02	1.47E-03	1.47E-01
BP-53-SUR	Uranium-238	1.22E+00		2.26E-01	3.23E-02	1.47E-03	1.47E-01
BP-54-SUR	Uranium-238	9.26E-01		1.62E-01	2.94E-02	1.47E-03	1.47E-01
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Uranium-238	1.17E+00		2.09E-01	3.00E-02	1.47E-03	1.47E-01
BP-4-SUB	Uranium-238	1.05E+00		2.01E-01	4.13E-02	1.47E-03	1.47E-01
BP-5-SUB	Uranium-238	9.62E-01		1.79E-01	4.88E-02	1.47E-03	1.47E-01
BP-9-SUB	Uranium-238	1.64E+00		2.81E-01	2.93E-02	1.47E-03	1.47E-01
BP-12-SUB	Uranium-238	1.37E+00		2.58E-01	4.12E-02	1.47E-03	1.47E-01
BP-13-SUB	Uranium-238	1.25E+00		2.29E-01	4.09E-02	1.47E-03	1.47E-01
BP-14-SUB	Uranium-238	9.62E-01		1.84E-01	2.23E-02	1.47E-03	1.47E-01
BP-16-SUB	Uranium-238	1.29E+00		2.39E-01	2.45E-02	1.47E-03	1.47E-01
BP-20-SUB	Uranium-238	1.08E+00		2.29E-01	3.09E-02	1.47E-03	1.47E-01
BP-23-SUB	Uranium-238	1.02E+00		1.89E-01	3.59E-02	1.47E-03	1.47E-01
BP-29-SUB	Uranium-238	1.02E+00		2.02E-01	4.55E-02	1.47E-03	1.47E-01
BP-34-SUB	Uranium-238	1.68E+00		3.13E-01	2.65E-02	1.47E-03	1.47E-01
BP-35-SUB	Uranium-238	1.29E+00		2.14E-01	2.95E-02	1.47E-03	1.47E-01
BP-38-SUB	Uranium-238	1.04E+00		1.87E-01	3.07E-02	1.47E-03	1.47E-01
BP-43-SUB	Uranium-238	1.13E+00		2.12E-01	3.53E-02	1.47E-03	1.47E-01
BP-45-SUB	Uranium-238	1.22E+00		2.30E-01	2.22E-02	1.47E-03	1.47E-01
BP-46-SUB	Uranium-238	1.26E+00		2.13E-01	1.35E-02	1.47E-03	1.47E-01
BP-48-SUB	Uranium-238	1.06E+00		1.99E-01	1.96E-02	1.47E-03	1.47E-01
BP-50-SUB	Uranium-238	1.13E+00		2.01E-01	1.63E-02	1.47E-03	1.47E-01
BP-51-SUB	Uranium-238	1.58E+00		2.72E-01	3.01E-02	1.47E-03	1.47E-01

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Table 6.64 - Uranium-240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
Lang Ranch Surface Samples (Chatsworth Formation)							
LR-1-SUR	Uranium-240	1.12E-04	U	1.75E-03	5.11E-03	2.98E+02	2.98E+04
LR-2-SUR	Uranium-240	9.19E-04	U	4.20E-03	5.51E-03	2.98E+02	2.98E+04
LR-3-SUR	Uranium-240	0.00E+00	U	3.57E-03	9.84E-03	2.98E+02	2.98E+04
LR-4-SUR	Uranium-240	-9.61E-04	U	4.39E-03	1.02E-02	2.98E+02	2.98E+04
LR-5-SUR	Uranium-240	-2.20E-03	U	2.35E-03	7.96E-03	2.98E+02	2.98E+04
LR-6-SUR	Uranium-240	-1.55E-04	U	1.01E-03	3.02E-03	2.98E+02	2.98E+04
LR-7-SUR	Uranium-240	-8.56E-04	U	1.08E-03	3.68E-03	2.98E+02	2.98E+04
LR-8-SUR	Uranium-240	7.72E-05	U	1.18E-03	2.76E-03	2.98E+02	2.98E+04
LR-9-SUR	Uranium-240	-2.70E-04	U	1.23E-03	2.87E-03	2.98E+02	2.98E+04
LR-10-SUR	Uranium-240	-3.25E-04	U	9.57E-04	2.86E-03	2.98E+02	2.98E+04
LR-11-SUR	Uranium-240	-2.79E-04	U	1.12E-03	3.30E-03	2.98E+02	2.98E+04
LR-12-SUR	Uranium-240	0.00E+00	U	1.05E-03	2.46E-03	2.98E+02	2.98E+04
LR-13-SUR	Uranium-240	7.15E-04	U	1.09E-03	2.54E-03	2.98E+02	2.98E+04
LR-14-SUR	Uranium-240	0.00E+00	U	1.12E-03	3.29E-03	2.98E+02	2.98E+04
LR-15-SUR	Uranium-240	0.00E+00	U	4.12E-03	5.41E-03	2.98E+02	2.98E+04
LR-16-SUR	Uranium-240	8.31E-04	U	3.80E-03	4.99E-03	2.98E+02	2.98E+04
LR-17-SUR	Uranium-240	-9.79E-04	U	4.47E-03	1.23E-02	2.98E+02	2.98E+04
LR-18-SUR	Uranium-240	-1.42E-03	U	6.51E-03	1.52E-02	2.98E+02	2.98E+04
LR-19-SUR	Uranium-240	0.00E+00	U	1.01E-03	2.36E-03	2.98E+02	2.98E+04
LR-20-SUR	Uranium-240	1.07E-04	U	1.22E-03	2.57E-03	2.98E+02	2.98E+04
LR-21-SUR	Uranium-240	-2.40E-04	U	1.10E-03	2.56E-03	2.98E+02	2.98E+04
LR-22-SUR	Uranium-240	-1.71E-04	U	7.82E-04	1.82E-03	2.98E+02	2.98E+04
LR-23-SUR	Uranium-240	-2.77E-04	U	1.26E-03	2.95E-03	2.98E+02	2.98E+04
LR-24-SUR	Uranium-240	-2.99E-04	U	1.36E-03	3.18E-03	2.98E+02	2.98E+04
LR-25-SUR	Uranium-240	-2.96E-04	U	1.35E-03	3.72E-03	2.98E+02	2.98E+04
LR-26-SUR	Uranium-240	7.02E-04	U	1.07E-03	2.49E-03	2.98E+02	2.98E+04
LR-27-SUR	Uranium-240	0.00E+00	U	1.21E-03	1.59E-03	2.98E+02	2.98E+04
Lang Ranch Subsurface Samples (Chatsworth Formation)							
LR-3-SUB	Uranium-240	-2.51E-04	U	1.15E-03	3.16E-03	2.98E+02	2.98E+04
LR-4-SUB	Uranium-240	-2.06E-04	U	1.11E-03	2.58E-03	2.98E+02	2.98E+04
LR-9-SUB	Uranium-240	0.00E+00	U	1.34E-03	3.12E-03	2.98E+02	2.98E+04
LR-13-SUB	Uranium-240	1.14E-03	U	1.60E-03	3.60E-03	2.98E+02	2.98E+04
LR-15-SUB	Uranium-240	1.36E-03		1.26E-03	1.63E-03	2.98E+02	2.98E+04
LR-18-SUB	Uranium-240	-2.72E-04	U	1.24E-03	2.90E-03	2.98E+02	2.98E+04
LR-19-SUB	Uranium-240	2.77E-04	U	1.26E-03	2.95E-03	2.98E+02	2.98E+04
LR-23-SUB	Uranium-240	0.00E+00	U	1.34E-03	1.77E-03	2.98E+02	2.98E+04
LR-24-SUB	Uranium-240	-4.71E-04	U	1.08E-03	2.96E-03	2.98E+02	2.98E+04
LR-26-SUB	Uranium-240	0.00E+00	U	2.53E-03	5.91E-03	2.98E+02	2.98E+04
Rocky Peak Surface Samples (Chatsworth Formation)							
RP-1-SUR	Uranium-240	-2.69E-04	U	1.23E-03	2.87E-03	2.98E+02	2.98E+04
RP-2-SUR	Uranium-240	2.50E-04	U	1.14E-03	1.50E-03	2.98E+02	2.98E+04
RP-3-SUR	Uranium-240	-3.39E-04	U	9.10E-04	2.72E-03	2.98E+02	2.98E+04
RP-4-SUR	Uranium-240	-6.98E-04	U	1.21E-03	3.82E-03	2.98E+02	2.98E+04
RP-5-SUR	Uranium-240	2.25E-04	U	1.03E-03	2.39E-03	2.98E+02	2.98E+04
RP-6-SUR	Uranium-240	5.81E-04	U	1.33E-03	3.09E-03	2.98E+02	2.98E+04
RP-7-SUR	Uranium-240	-2.83E-04	U	1.29E-03	3.56E-03	2.98E+02	2.98E+04
RP-8-SUR	Uranium-240	1.08E-04	U	1.12E-03	2.63E-03	2.98E+02	2.98E+04
RP-9-SUR	Uranium-240	1.06E-04	U	1.15E-03	2.69E-03	2.98E+02	2.98E+04
RP-10-SUR	Uranium-240	-6.82E-04	U	1.04E-03	3.20E-03	2.98E+02	2.98E+04
RP-11-SUR	Uranium-240	4.61E-04	U	1.06E-03	1.38E-03	2.98E+02	2.98E+04
RP-12-SUR	Uranium-240	1.18E-03		1.09E-03	1.42E-03	2.98E+02	2.98E+04
RP-13-SUR	Uranium-240	2.77E-04	U	1.26E-03	1.66E-03	2.98E+02	2.98E+04
RP-14-SUR	Uranium-240	5.01E-04	U	2.29E-03	3.01E-03	2.98E+02	2.98E+04
RP-15-SUR	Uranium-240	-4.26E-04	U	1.71E-03	5.04E-03	2.98E+02	2.98E+04
RP-16-SUR	Uranium-240	3.22E-05	U	2.07E-03	4.84E-03	2.98E+02	2.98E+04
RP-17-SUR	Uranium-240	4.90E-04	U	1.12E-03	1.47E-03	2.98E+02	2.98E+04
RP-18-SUR	Uranium-240	-8.34E-04	U	1.01E-03	3.42E-03	2.98E+02	2.98E+04
RP-19-SUR	Uranium-240	9.83E-05	U	1.11E-03	2.33E-03	2.98E+02	2.98E+04
RP-20-SUR	Uranium-240	0.00E+00	U	1.09E-03	2.54E-03	2.98E+02	2.98E+04
RP-21-SUR	Uranium-240	1.07E-03	U	1.33E-03	2.95E-03	2.98E+02	2.98E+04

Table 6.64 - Uranium-240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
RP-22-SUR	Uranium-240	2.60E-04	U	1.19E-03	2.77E-03	2.98E+02	2.98E+04
RP-23-SUR	Uranium-240	0.00E+00	U	1.07E-03	2.51E-03	2.98E+02	2.98E+04
RP-24-SUR	Uranium-240	-4.13E-05	U	1.26E-03	3.46E-03	2.98E+02	2.98E+04
RP-25-SUR	Uranium-240	2.47E-04	U	1.13E-03	2.63E-03	2.98E+02	2.98E+04
RP-26-SUR	Uranium-240	-4.36E-04	U	9.96E-04	2.74E-03	2.98E+02	2.98E+04
RP-27-SUR	Uranium-240	0.00E+00	U	9.78E-04	2.28E-03	2.98E+02	2.98E+04
RP-28-SUR	Uranium-240	0.00E+00	U	1.27E-03	2.97E-03	2.98E+02	2.98E+04
Rocky Peak Subsurface Samples (Chatsworth Formation)							
RP-1-SUB	Uranium-240	-3.28E-04	U	1.50E-03	4.12E-03	2.98E+02	2.98E+04
RP-5-SUB	Uranium-240	3.08E-04	U	1.41E-03	1.85E-03	2.98E+02	2.98E+04
RP-7-SUB	Uranium-240	0.00E+00	U	1.34E-03	3.13E-03	2.98E+02	2.98E+04
RP-12-SUB	Uranium-240	-3.10E-04	U	1.42E-03	3.31E-03	2.98E+02	2.98E+04
RP-13-SUB	Uranium-240	-3.33E-04	U	1.52E-03	3.55E-03	2.98E+02	2.98E+04
RP-17-SUB	Uranium-240	-6.78E-04	U	1.15E-03	3.42E-03	2.98E+02	2.98E+04
RP-18-SUB	Uranium-240	-7.34E-04	U	1.01E-03	3.46E-03	2.98E+02	2.98E+04
RP-19-SUB	Uranium-240	0.00E+00	U	1.11E-03	2.59E-03	2.98E+02	2.98E+04
RP-20-SUB	Uranium-240	0.00E+00	U	1.57E-03	3.66E-03	2.98E+02	2.98E+04
RP-28-SUB	Uranium-240	-5.44E-04	U	1.28E-03	3.48E-03	2.98E+02	2.98E+04
Bridle Path Surface Samples (Santa Susana Formation)							
BP-1-SUR	Uranium-240	8.00E-04	U	1.83E-03	2.40E-03	2.98E+02	2.98E+04
BP-2-SUR	Uranium-240	-6.04E-04	U	1.38E-03	3.80E-03	2.98E+02	2.98E+04
BP-3-SUR	Uranium-240	0.00E+00	U	1.65E-03	3.84E-03	2.98E+02	2.98E+04
BP-4-SUR	Uranium-240	3.14E-05	U	9.52E-04	2.22E-03	2.98E+02	2.98E+04
BP-5-SUR	Uranium-240	1.31E-03	U	2.00E-03	2.62E-03	2.98E+02	2.98E+04
BP-6-SUR	Uranium-240	-2.82E-04	U	1.37E-03	3.19E-03	2.98E+02	2.98E+04
BP-7-SUR	Uranium-240	-1.63E-04	U	1.06E-03	3.18E-03	2.98E+02	2.98E+04
BP-8-SUR	Uranium-240	3.33E-04	U	1.52E-03	3.54E-03	2.98E+02	2.98E+04
BP-9-SUR	Uranium-240	-6.27E-05	U	1.07E-03	2.98E-03	2.98E+02	2.98E+04
BP-10-SUR	Uranium-240	-2.65E-04	U	1.21E-03	3.72E-03	2.98E+02	2.98E+04
BP-11-SUR	Uranium-240	0.00E+00	U	1.54E-03	4.52E-03	2.98E+02	2.98E+04
BP-12-SUR	Uranium-240	0.00E+00	U	1.43E-03	3.35E-03	2.98E+02	2.98E+04
BP-13-SUR	Uranium-240	5.80E-04	U	1.33E-03	3.09E-03	2.98E+02	2.98E+04
BP-14-SUR	Uranium-240	-5.09E-04	U	1.16E-03	3.58E-03	2.98E+02	2.98E+04
BP-15-SUR	Uranium-240	1.35E-03		1.25E-03	1.62E-03	2.98E+02	2.98E+04
BP-16-SUR	Uranium-240	7.60E-04	U	1.16E-03	1.52E-03	2.98E+02	2.98E+04
BP-17-SUR	Uranium-240	2.56E-04	U	1.17E-03	2.73E-03	2.98E+02	2.98E+04
BP-18-SUR	Uranium-240	2.43E-03		1.73E-03	1.82E-03	2.98E+02	2.98E+04
BP-19-SUR	Uranium-240	0.00E+00	U	1.96E-03	4.58E-03	2.98E+02	2.98E+04
BP-20-SUR	Uranium-240	-3.21E-04	U	1.47E-03	3.42E-03	2.98E+02	2.98E+04
BP-21-SUR	Uranium-240	7.25E-04	U	1.66E-03	2.18E-03	2.98E+02	2.98E+04
BP-22-SUR	Uranium-240	-4.40E-04	U	1.01E-03	3.09E-03	2.98E+02	2.98E+04
BP-23-SUR	Uranium-240	-5.29E-04	U	2.42E-03	5.63E-03	2.98E+02	2.98E+04
BP-24-SUR	Uranium-240	9.87E-04	U	1.51E-03	1.97E-03	2.98E+02	2.98E+04
BP-25-SUR	Uranium-240	7.16E-05	U	1.12E-03	3.28E-03	2.98E+02	2.98E+04
BP-26-SUR	Uranium-240	4.02E-04	U	1.83E-03	4.28E-03	2.98E+02	2.98E+04
BP-27-SUR	Uranium-240	4.11E-04	U	1.88E-03	4.38E-03	2.98E+02	2.98E+04
BP-28-SUR	Uranium-240	0.00E+00	U	1.77E-03	2.33E-03	2.98E+02	2.98E+04
BP-29-SUR	Uranium-240	7.07E-04	U	1.62E-03	2.12E-03	2.98E+02	2.98E+04
BP-30-SUR	Uranium-240	3.21E-04	U	1.47E-03	1.93E-03	2.98E+02	2.98E+04
BP-31-SUR	Uranium-240	-2.08E-04	U	1.35E-03	4.05E-03	2.98E+02	2.98E+04
BP-32-SUR	Uranium-240	7.43E-04	U	1.14E-03	1.49E-03	2.98E+02	2.98E+04
BP-33-SUR	Uranium-240	6.21E-04	U	1.42E-03	1.86E-03	2.98E+02	2.98E+04
BP-34-SUR	Uranium-240	1.71E-04	U	7.82E-04	1.03E-03	2.98E+02	2.98E+04
BP-35-SUR	Uranium-240	2.49E-04	U	1.14E-03	2.65E-03	2.98E+02	2.98E+04
BP-36-SUR	Uranium-240	4.97E-04	U	1.26E-03	2.63E-03	2.98E+02	2.98E+04
BP-37-SUR	Uranium-240	-2.11E-04	U	1.13E-03	2.65E-03	2.98E+02	2.98E+04
BP-38-SUR	Uranium-240	2.42E-04	U	1.11E-03	2.58E-03	2.98E+02	2.98E+04
BP-39-SUR	Uranium-240	0.00E+00	U	1.24E-03	2.89E-03	2.98E+02	2.98E+04
BP-40-SUR	Uranium-240	-2.11E-04	U	1.27E-03	2.95E-03	2.98E+02	2.98E+04
BP-41-SUR	Uranium-240	0.00E+00	U	1.16E-03	3.20E-03	2.98E+02	2.98E+04
BP-42-SUR	Uranium-240	6.81E-04	U	1.04E-03	2.42E-03	2.98E+02	2.98E+04

Table 6.64 - Uranium-240 Analytical Results

Sample ID	Analyte	Result (pCi/g)	Qualifier(s)	Uncertainty (+/- pCi/g)	MDC (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Agricultural 10^{-4} PRG (pCi/g)
BP-43-SUR	Uranium-240	-4.33E-04	U	9.90E-04	2.72E-03	2.98E+02	2.98E+04
BP-44-SUR	Uranium-240	2.54E-04	U	1.16E-03	2.71E-03	2.98E+02	2.98E+04
BP-45-SUR	Uranium-240	0.00E+00	U	1.10E-03	2.57E-03	2.98E+02	2.98E+04
BP-46-SUR	Uranium-240	0.00E+00	U	1.35E-03	3.15E-03	2.98E+02	2.98E+04
BP-47-SUR	Uranium-240	-2.95E-04	U	1.31E-03	3.60E-03	2.98E+02	2.98E+04
BP-48-SUR	Uranium-240	-2.38E-04	U	1.09E-03	2.53E-03	2.98E+02	2.98E+04
BP-49-SUR	Uranium-240	0.00E+00	U	1.14E-03	2.66E-03	2.98E+02	2.98E+04
BP-50-SUR	Uranium-240	1.61E-03		1.52E-03	2.86E-03	2.98E+02	2.98E+04
BP-51-SUR	Uranium-240	2.71E-04	U	1.24E-03	2.88E-03	2.98E+02	2.98E+04
BP-52-SUR	Uranium-240	0.00E+00	U	1.19E-03	2.79E-03	2.98E+02	2.98E+04
BP-53-SUR	Uranium-240	-2.38E-04	U	1.09E-03	2.54E-03	2.98E+02	2.98E+04
BP-54-SUR	Uranium-240	-2.71E-04	U	1.24E-03	2.89E-03	2.98E+02	2.98E+04
Bridle Path Subsurface Samples (Santa Susana Formation)							
BP-3-SUB	Uranium-240	-3.61E-04	U	1.65E-03	3.85E-03	2.98E+02	2.98E+04
BP-4-SUB	Uranium-240	-7.29E-04	U	1.67E-03	5.13E-03	2.98E+02	2.98E+04
BP-5-SUB	Uranium-240	1.17E-03	U	1.79E-03	2.34E-03	2.98E+02	2.98E+04
BP-9-SUB	Uranium-240	4.80E-04	U	1.10E-03	2.56E-03	2.98E+02	2.98E+04
BP-12-SUB	Uranium-240	3.10E-04	U	1.41E-03	1.86E-03	2.98E+02	2.98E+04
BP-13-SUB	Uranium-240	6.55E-04	U	1.50E-03	1.97E-03	2.98E+02	2.98E+04
BP-14-SUB	Uranium-240	-4.03E-04	U	1.84E-03	5.07E-03	2.98E+02	2.98E+04
BP-16-SUB	Uranium-240	0.00E+00	U	1.98E-03	4.62E-03	2.98E+02	2.98E+04
BP-20-SUB	Uranium-240	-1.97E-04	U	1.63E-03	4.89E-03	2.98E+02	2.98E+04
BP-23-SUB	Uranium-240	2.08E-04	U	9.48E-04	2.61E-03	2.98E+02	2.98E+04
BP-29-SUB	Uranium-240	-3.33E-04	U	1.52E-03	3.54E-03	2.98E+02	2.98E+04
BP-34-SUB	Uranium-240	2.99E-04	U	1.37E-03	1.79E-03	2.98E+02	2.98E+04
BP-35-SUB	Uranium-240	-4.03E-04	U	9.94E-04	2.97E-03	2.98E+02	2.98E+04
BP-38-SUB	Uranium-240	-8.22E-04	U	1.04E-03	3.56E-03	2.98E+02	2.98E+04
BP-43-SUB	Uranium-240	-9.48E-04	U	1.50E-03	4.51E-03	2.98E+02	2.98E+04
BP-45-SUB	Uranium-240	3.87E-04	U	1.54E-03	2.02E-03	2.98E+02	2.98E+04
BP-46-SUB	Uranium-240	-3.34E-04	U	1.95E-03	4.56E-03	2.98E+02	2.98E+04
BP-48-SUB	Uranium-240	6.37E-04	U	1.44E-03	1.87E-03	2.98E+02	2.98E+04
BP-50-SUB	Uranium-240	2.13E-04	U	1.27E-03	3.49E-03	2.98E+02	2.98E+04
BP-51-SUB	Uranium-240	0.00E+00	U	1.19E-03	1.56E-03	2.98E+02	2.98E+04

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

MDC - Minimum Detectable Concentration

PRG - Preliminary Remediation Goal

Uncertainty - Reported at the 1.96σ Confidence Interval. Gamma Spectroscopy Reported at the 2σ Confidence Interval.

Data Qualifiers:

B - Analyte present, but not detected substantially above the level reported in laboratory or field blanks.

J - The analyte was detected at the reported concentration: the quantitation is an estimate.

K - Reported result is greater than the associated 2-sigma uncertainty. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiences in the ability to analyze the sample and meet the Quality Control criteria.

S - Analyte result is subject to spectral interference. Unless otherwise qualified, the data may be used for its intended purpose (see note below), provided that future on-site analyses use the same gamma spectrometry library and follow the same analytical protocols.

U - Not considered detected. The reported activity concentration is less than the associated 2-sigma uncertainty. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration which may be inaccurate due to a low bias.

X - Excluded. The data point is associated with reanalyses or diluted analyses and is excluded because another result has been selecetd as the definitive result for the analyte

These results are qualified based on the usability of the data for its intended purpose, which is to develop a statistical profile against which to compare individual on-site sample results.

Section 8 Tables

Table 8.1 - Radionuclides With Fewer Than Five Detections

Radionuclide	Detects/ Samples	Maximum Detected Value[1] (pCi/g)	Maximum Non-Detect Value (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV (pCi/g)	Recommended BTV Determination
americium-243+D	0/149	No Detects	1.34E-02	1.11E-02	**1.34E-02**	Maximum Non-Detect Value
cobalt-60	1/141	1.26E-02	5.56E-03	9.01E-04	**5.56E-03**	Maximum Non-Detect Value
curium-243/244	2/149	2.37E-02	1.47E-02	1.27E-01	**1.47E-02**	Maximum Non-Detect Value
curium-248	0/149	No Detects	2.34E-02	1.43E-03	**2.34E-02**	Maximum Non-Detect Value
neptunium-239	1/149	7.27E-02	4.27E-02	2.26E+01	**4.27E-02**	Maximum Non-Detect Value
nickel-59	5/146[2]	5.20E-01	3.44E-01	2.15E+00	**3.44E-01**	Maximum Non-Detect Value
nickel-63	3/148	5.06E-01	4.52E-01	1.01E+00	**4.52E-01**	Maximum Non-Detect Value
plutonium-241	1/149	4.37E-01	3.49E-01	1.05E+00	**3.49E-01**	Maximum Non-Detect Value
thulium-171	0/144	No Detects	6.59E+01	1.25E+03	**6.59E+01**	Maximum Non-Detect Value
tin-126	0/146	No Detects	4.90E-03	7.11E-01	**4.90E-03**	Maximum Non-Detect Value
uranium-232	1/149	4.17E-01	5.65E-02	5.90E-04	**5.65E-02**	Maximum Non-Detect Value

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

(1) - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

(2) - Although nickel-59 results exhibited 5 detections, 2 detections were removed as outliers during the statistical evluation (See Appendix A)

Table 8.2 - Radionuclides With Five or More Detections

Radionuclides With Five or More Detections

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Maximum Non-Detect Value (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Recommended BTV
actinium-227+D	40/149	1.24E-01	6.78E-02	8.31E-02	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
actinium-228	149/149	2.30E+00	No Non-Detects	7.31E+02	USL95	Multiple BTVs based on RBRAs - See Table 8.6
americium-241	5/149	2.39E-02	1.77E-02	1.32E-02	USL95	One BTV - See Table 8.3
antimony-125+D	143/144	2.63E-01	1.57E-01	4.60E-01	USL95	Multiple BTVs based on RBRAs - See Table 8.6
barium-137m	117/148	1.71E-01	3.03E-03	1.78E+05	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
bismuth-212	149/149	2.04E+00	No Non-Detects	2.24E+04	USL95	Multiple BTVs based on RBRAs - See Table 8.6
bismuth-214	149/149	1.57E+00	No Non-Detects	8.19E+03	USL95	Multiple BTVs based on Individual Datasets - See Table 8.7
cadmium-113m	5/149	4.32E+03	1.73E+03	5.26E-03	USL95	One BTV - See Table 8.3
carbon-14	6/149	3.26E+00	2.22E+00	5.63E-05	USL95	One BTV - See Table 8.3
cesium-134	123/131	2.61E-02	4.80E-03	7.47E-03	USL95	Multiple BTVs based on RBRAs - See Table 8.6
cesium-137+D	117/148	1.80E-01	3.21E-03	1.20E-03	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
curium-245/246	6/149	2.20E-02	1.79E-02	9.22E-02	USL95	One BTV - See Table 8.3
europium-152	17/149	2.53E-02	3.06E-02	3.76E-02	USL95	One BTV - See Table 8.3
europium-154	8/148	2.91E-02	1.70E-02	4.72E-02	USL95	One BTV - See Table 8.3
europium-155	147/149	1.71E-01	1.46E-02	3.74E+00	USL95	Multiple BTVs based on RBRAs - See Table 8.6
holmium-166m	56/149	3.87E-02	9.28E-03	1.10E-02	USL95	One BTV - See Table 8.3
iodine-129	12/149	2.22E+00	2.08E+00	2.76E-05	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
iron-55	10/120	7.15E+00	7.31E+00	8.21E-01	USL95	One BTV - See Table 8.3
lead-210+D (bismuth-210)	148/148	2.17E+00	No Non-Detects	6.42E-05	USL95	One BTV - See Table 8.3
lead-212	149/149	2.67E+00	No Non-Detects	8.00E+01	USL95	Multiple BTVs based on RBRAs - See Table 8.6
lead-214	149/149	1.68E+00	No Non-Detects	3.49E+04	USL95	Multiple BTVs based on Individual Datasets - See Table 8.7
neptunium-236	47/149	3.80E-02	2.13E-02	2.81E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
neptunium-237+D	7/149	2.25E-02	6.21E-03	4.48E-04	USL95	One BTV - See Table 8.3
niobium-94	99/149	1.63E-02	5.09E-03	1.15E-02	USL95	Multiple BTVs based on RBRAs - See Table 8.6
plutonium-236	10/149	2.57E-02	2.26E-02	1.04E-01	USL95	One BTV - See Table 8.3
plutonium-238	27/139	5.36E-03	3.38E-03	7.31E-03	USL95	One BTV - See Table 8.3
plutonium-239/240	93/149	1.71E-02	3.44E-03	6.09E-03	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
plutonium-242	9/147	4.65E-03	5.87E-03	6.42E-03	USL95	One BTV - See Table 8.3
plutonium-244+D	5/149	2.43E-03	1.31E-03	5.06E-03	USL95	One BTV - See Table 8.3
polonium-210	149/149	1.98E+00	No Non-Detects	1.94E+01	USL95	One BTV - See Table 8.3
potassium-40	149/149	3.05E+01	No Non-Detects	4.45E-02	USL95	Multiple BTVs based on RBRAs - See Table 8.6
promethium-147	10/149	6.35E+00	3.28E+00	6.69E+02	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
protactinium-231	7/149	1.77E+00	2.07E-01	2.10E-01	USL95	One BTV - See Table 8.3
radium-226+D	149/149	1.88E+00	No Non-Detects	6.32E-04	USL95	Multiple BTVs based on RBRAs - See Table 8.6
radium-228+D	149/149	2.30E+00	No Non-Detects	1.16E-03	USL95	Multiple BTVs based on RBRAs - See Table 8.6
radon-220	149/149	2.27E+00	No Non-Detects	7.74E+08	USL95	Multiple BTVs based on RBRAs - See Table 8.6
radon-222+D	149/149	1.61E+00	No Non-Detects	1.27E+05	USL95	Multiple BTVs based on Individual Datasets - See Table 8.7
sodium-22	11/144	9.54E-03	6.47E-03	8.52E-02	USL95	One BTV - See Table 8.3
strontium-90+D (yttrium-90)	109/148	8.36E-02	1.07E-02	1.39E-03	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
technetium-99	40/149	3.64E-01	2.92E-01	5.57E-03	USL95	One BTV - See Table 8.3
tellurium-125m	143/144	6.07E-02	3.62E-02	3.20E+01	USL95	Multiple BTVs based on RBRAs - See Table 8.6
thallium-208	149/149	9.23E-01	No Non-Detects	2.26E+04	USL95	Multiple BTVs based on RBRAs - See Table 8.6
thorium-228+D	149/149	3.55E+00	No Non-Detects	3.38E-02	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
thorium-229+D	80/149	4.50E-02	2.20E-02	1.71E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
thorium-230	149/149	2.04E+00	No Non-Detects	1.05E-02	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
thorium-231	145/149	1.20E-01	3.79E-02	3.31E+03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
thorium-232	149/149	2.87E+00	No Non-Detects	9.42E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
thorium-234	148/149	2.45E+00	1.41E+00	1.53E+01	USL95	Multiple BTVs based on RBRAs - See Table 8.6
tritium (H-3) organic	16/149	7.27E+00	4.99E+00	1.60E-01	USL95	Multiple BTVs due to Differences in Surface vs. Subsurface Soil - See Table 8.4
uranium-233/234	149/149	1.71E+00	No Non-Detects	1.84E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
uranium-235+D/236	145/149	1.20E-01	3.79E-02	1.81E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
uranium-238+D	149/149	1.68E+00	No Non-Detects	1.47E-03	USL95	Mutiple BTVs based on Geologic Formations - See Table 8.5
uranium-240	5/149	2.43E-03	1.31E-03	2.98E+02	USL95	One BTV - See Table 8.3

Rejected Results

barium-133	Rejected due to Spectral Interference
californium-249	Rejected due to Spectral Interference
silver-108	Rejected due to Spectral Interference
silver-108m	Rejected due to Spectral Interference

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

RBRAs - Radiological Background Reference Areas

USL95 - 95% Upper Simultaneous Limit

* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

Table 8.3 - Radionuclides With One BTV for All Results

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Maximum Non-Detect Value (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Calculated BTV (pCi/g)
americium-241	5/149	2.39E-02	1.77E-02	1.32E-02	USL95	**1.62E-02**
cadmium-113m	5/149	4.32E+03	1.73E+03	5.26E-03	USL95	**2.95E+03**
carbon-14	6/149	3.26E+00	2.22E+00	5.63E-05	USL95	**2.54E+00**
curium-245/246	6/149	2.20E-02	1.79E-02	9.22E-02	USL95	**1.62E-02**
europium-152	17/149	2.53E-02	3.06E-02	3.76E-02	USL95	**1.69E-02**
europium-154	8/148	2.91E-02	1.70E-02	4.72E-02	USL95	**2.51E-02**
holmium-166m	56/149	3.87E-02	9.28E-03	1.10E-02	USL95	**3.65E-02**
iron-55	10/120	7.15E+00	7.31E+00	8.21E-01	USL95	**5.08E+00**
lead-210+D (bismuth-210)	148/148	2.17E+00	No Non-Detects	6.42E-05	USL95	**2.07E+00**
neptunium-237+D	7/149	2.25E-02	6.21E-03	4.48E-04	USL95	**1.09E-02**
plutonium-236	10/149	2.57E-02	2.26E-02	1.04E-01	USL95	**1.84E-02**
plutonium-238	27/139	5.36E-03	3.38E-03	7.31E-03	USL95	**4.25E-03**
plutonium-242	9/147	4.65E-03	5.87E-03	6.42E-03	USL95	**2.46E-03**
plutonium-244+D	5/149	2.43E-03	1.31E-03	5.06E-03	USL95	**1.56E-03**
polonium-210	149/149	1.98E+00	No Non-Detects	1.94E+01	USL95	**2.09E+00**
protactinium-231	7/149	1.77E+00	2.07E-01	2.10E-01	USL95	**7.91E-01**
sodium-22	11/144	9.54E-03	6.47E-03	8.52E-02	USL95	**7.87E-03**
technetium-99	40/149	3.64E-01	2.92E-01	5.57E-03	USL95	**3.68E-01**
uranium-240	5/149	2.43E-03	1.31E-03	2.98E+02	USL95	**1.56E-03**

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

USL95 - 95% Upper Simultaneous Limit

* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

Table 8.4 - Radionuclides With Surface Soil and Subsurface Soil BTVs

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Surface Soil BTV (pCi/g)	Subsurface Soil BTV (pCi/g)	Calculated BTV Combining All Data (pCi/g)
barium-137m	117/148	1.71E-01	1.78E+05	USL95	**1.83E-01**	**1.05E-02**	**2.11E-01**
cesium-137+D	117/148	1.80E-01	1.20E-03	USL95	**1.93E-01**	**8.03E-03**	**2.29E-01**
iodine-129	12/149	2.22E+00	2.76E-05	USL95	**1.60E+00**	**2.08E+00**	**1.54E+00**
plutonium-239/240	93/149	1.71E-02	6.09E-03	USL95	**1.42E-02**	**2.09E-03**	**1.34E-02**
promethium-147	10/149	6.35E+00	6.69E+02	USL95	**4.96E+00**	**3.28E+00**	**4.60E+00**
strontium-90+D (yttrium-90)	109/148	8.36E-02	1.39E-03	USL95	**7.50E-02**	**1.31E-02**	**7.35E-02**
tritium (H-3) organic	16/149	7.27E+00	1.60E-01	USL95	**3.75E+00**	**7.38E+00**	**5.86E+00**

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

USL95 - 95% Upper Simultaneous Limit

* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

Table 8.5 - Radionuclides with BTVs based on Geologic Formations

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Santa Susana Formation BTV (pCi/g)	Chatsworth Formation BTV (pCi/g)	Calculated BTV Combining All Data (pCi/g)
actinium-227+D	40/149	1.24E-01	8.31E-02	USL95	**1.34E-01**	**9.76E-02**	**1.27E-01**
neptunium-236	47/149	3.80E-02	2.81E-03	USL95	**3.54E-02**	**2.13E-02**	**3.14E-02**
thorium-228+D	149/149	3.55E+00	3.38E-02	USL95	**3.55E+00**	**3.29E+00**	**3.67E+00**
thorium-229+D	80/149	4.50E-02	1.71E-03	USL95	**4.45E-02**	**4.02E-02**	**4.62E-02**
thorium-230	149/149	2.04E+00	1.05E-02	USL95	**1.88E+00**	**2.04E+00**	**2.04E+00**
thorium-231	145/149	1.20E-01	3.31E+03	USL95	**1.22E-01**	**1.25E-01**	**1.30E-01**
thorium-232	149/149	2.87E+00	9.42E-03	USL95	**3.19E+00**	**2.29E+00**	**2.95E+00**
uranium-233/234	149/149	1.71E+00	1.84E-03	USL95	**1.77E+00**	**1.73E+00**	**1.87E+00**
uranium-235+D/236	145/149	1.20E-01	1.81E-03	USL95	**1.22E-01**	**1.25E-01**	**1.30E-01**
uranium-238+D	149/149	1.68E+00	1.47E-03	USL95	**1.74E+00**	**1.65E+00**	**1.68E+00**

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

USL95 - 95% Upper Simultaneous Limit

* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

Table 8.6 - Radionuclides with BTVs based on RBRAs

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Bridal Path RBRA BTV (pCi/g)	Lang Ranch RBRA BTV (pCi/g)	Rocky Peak RBRA BTV (pCi/g)	Calculated BTV Combining All Data (pCi/g)
actinium-228	149/149	2.30E+00	7.31E+02	USL95	**2.45E+00**	**1.82E+00**	**1.31E+00**	**2.30E+00**
antimony-125+D	143/144	2.63E-01	4.60E-01	USL95	**3.45E-01**	**2.29E-01**	**1.59E-01**	**3.21E-01**
bismuth-212	149/149	2.04E+00	2.24E+04	USL95	**1.93E+00**	**2.04E+00**	**1.15E+00**	**2.04E+00**
cesium-134	123/131	2.61E-02	7.47E-03	USL95	**2.94E-02**	**2.13E-02**	**1.84E-02**	**3.00E-02**
europium-155	147/149	1.71E-01	3.74E+00	USL95	**1.97E-01**	**1.54E-01**	**1.20E-01**	**1.98E-01**
lead-212	148/149	2.67E+00	8.00E+01	USL95	**2.81E+00**	**2.43E+00**	**1.80E+00**	**2.67E+00**
niobium-94	99/149	1.63E-02	1.15E-02	USL95	**1.66E-02**	**1.53E-02**	**1.08E-02**	**1.65E-02**
potassium-40	149/149	3.05E+01	4.45E-02	USL95	**2.15E+01**	**3.05E+01**	**2.50E+01**	**3.05E+01**
radium-226+D	149/149	1.88E+00	6.32E-04	USL95	**1.88E+00**	**1.56E+00**	**1.15E+00**	**1.88E+00**
radium-228+D	149/149	2.30E+00	1.16E-03	USL95	**2.45E+00**	**1.82E+00**	**1.31E+00**	**2.30E+00**
radon-220	149/149	2.27E+00	7.74E+08	USL95	**2.34E+00**	**2.04E+00**	**1.48E+00**	**2.27E+00**
tellurium-125m	143/144	6.07E-02	3.20E+01	USL95	**7.97E-02**	**5.29E-02**	**3.51E-02**	**7.61E-02**
thallium-208	149/149	9.23E-01	2.26E+04	USL95	**9.39E-01**	**7.98E-01**	**5.49E-01**	**9.23E-01**
thorium-234	148/149	2.45E+00	1.53E+01	USL95	**2.45E+00**	**1.92E+00**	**1.26E+00**	**3.04E+00**

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.

PRG - Preliminary Remediation Goal

BTV - Background Threshold Value

RBRAs - Radiological Background Reference Areas

USL95 - 95% Upper Simultaneous Limit

* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

Table 8.7 - Radionuclides with BTVs based on Individual Datasets

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Bridal Path RBRA Surface Soil BTV (pCi/g)	Bridal Path RBRA Subsurface Soil BTV (pCi/g)	Lang Ranch RBRA Surface Soil BTV (pCi/g)	Lang Ranch RBRA Subsurface Soil BTV (pCi/g)	Rocky Peak RBRA Surface Soil BTV (pCi/g)	Rocky Peak RBRA Subsurface Soil BTV (pCi/g)	Calculated BTV Combining All Data (pCi/g)
radon-222+D	149/149	1.61E+00	1.27E+05	USL95	**1.61E+00**	**1.36E+00**	**1.34E+00**	**1.30E+00**	**9.14E-01**	**8.78E-01**	**1.61E+00**

Radionuclide	Detects/ Samples	Maximum Detected Value* (pCi/g)	Agricultural 10^{-6} PRG (pCi/g)	Recommended BTV Determination	Bridal Path RBRA Surface Soil BTV (pCi/g)	Bridal Path RBRA Subsurface Soil BTV (pCi/g)	Lang Ranch RBRA Surface Soil and Subsurface Soil BTV (pCi/g)	Rocky Peak RBRA Surface and Subsurface Soil BTV (pCi/g)	Calculated BTV Combining All Data (pCi/g)
bismuth-214	149/149	1.57E+00	8.19E+03	USL95	**1.83E+00**	**9.14E-01**	**1.31E+00**	**9.06E-01**	**1.57E+00**
lead-214	149/149	1.68E+00	3.49E+04	USL95	**1.93E+00**	**1.39E+00**	**1.40E+00**	**9.80E-01**	**1.68E+00**

Notes:

pCi/g - Picocuries per gram of dry soil. Analyses for H-3, C-14, Tc-99, and I-129 are reported in units of pCi per gram of "as-received" soil.
PRG - Preliminary Remediation Goal
BTV - Background Threshold Value
RBRA - Radiological Background Reference Area
USL95 - 95% Upper Simultaneous Limit
* - The Maximum Detected Value excludes outliers that were removed during the statistical analysis

APPENDICES

The following appendices can be found as part of the enclosed DVD.

APPENDIX A	Statistical Evaluations and Background Threshold Value Calculations
APPENDIX B	Statistical Methodology
APPENDIX C	Field Logbook
APPENDIX D	Surface Soil Sampling Information and Subsurface Boring Logs
APPENDIX E	Electronic Data Deliverables
APPENDIX F	Data Packages
APPENDIX G	Data Validation Reports